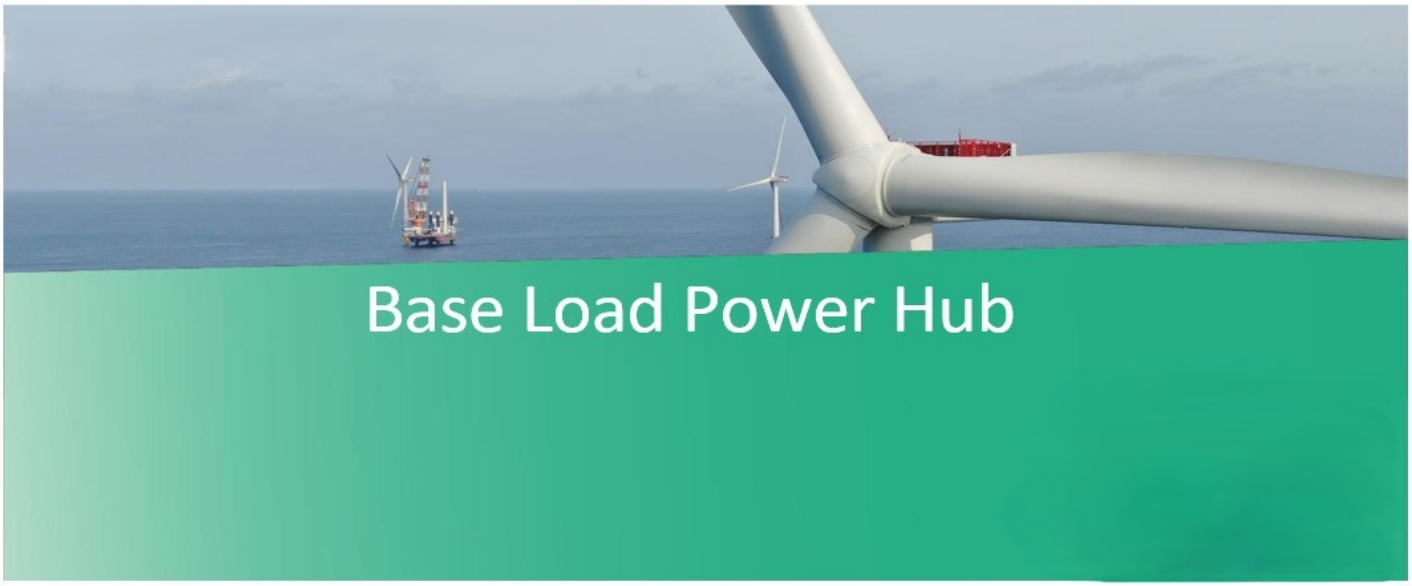
CROSSWIND

ROSETTI MARINO

PROVERLIS

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



MECHANICAL COMPLETION DOSSIER (ONSHORE)

SYSTEM	70 Safety and Facility Systems
SUBSYSTEM	70-00 F&G Control System

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

Sub System N°:	70-00	Tick as appropriate	ONSHORE	O
Description:	F&G Control System		OFFSHORE	NA

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

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

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

ROSETTI MARINO

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

CROSSWIND

Ready For Commissioning (RFC) Certificate

COMPLETE	●	PARTIAL	

Revision:	1		Issued on:	2024-11-29	
System:	70	/	Safety and Facility Systems		
SubSystem:	70-00	/	F&G Control System		

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

PUNCH LIST	PENDING POINTS	
Note: All Category "A" Items must be cleared prior to issue a Ready For Commissioning (RFC) Certificate	A: 1	B: 35

REMARKS:

	CONTRACTOR Construction Manager	**CONTRACTOR** Commissioning Manager	**COMPANY** Construction Lead (if required)	**COMPANY** Commissioning Lead (if required)
Name	Wolmer Borghi	Anthony Iveson	CPY NOT PRESENT	CPY NOT PRESENT
Date	2024-11-30	2024-11-30	2024-11-30	2024-11-30
Signature	PROVERLIS Digitaly signed by Wolmer Borghi 2024-11-30T09:40:16.321Z	PROVERLIS Digitaly signed by Anthony Iveson 2024-11-30T09:46:42.049Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2024-11-30T09:56:31.330Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2024-11-30T09:56:38.946Z

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 70-00 & process: MC

Electrical	70-00 F&G Control System						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
83107-CEL	Lighting & Small Power DB BoP / FGS Fire & Gas Panel - Auxiliary	ONSHORE	C10000626	CPX09	100	2024-11-09	RFC 1
84401-CEL	AC UPS - F&G DB / FGS Fire & Gas Panel - Line A	ONSHORE	C10000594	CPX09	100	2024-11-09	RFC 1
84402-CEL	AC UPS - F&G DB / FGS Fire & Gas Panel - Line B	ONSHORE	C10000595	CPX09	100	2024-11-09	RFC 1

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 70-00 & process: MC

Instrumental	70-00 F&G Control System						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
B400-FGS-001	FGS System Cabinet	ONSHORE	C10000873	CJX48	100	2024-11-20	RFC 1
B400-FGS-002	FGS Marshalling Cabinet 1	ONSHORE	C10000839	CJX48	100	2024-11-22	RFC 1
B400-FGS-003	FGS Marshalling Cabinet 2	ONSHORE	C10000874	CJX48	100	2024-11-29	RFC 1

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	70	Safety and Facility Systems
SUBSYSTEM	70-00	F&G Control System

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000415	A	83107-CEL C10000626	multiple earthing cables connected to one earthing connection. (See attached photo) .	.		Ecarotenuto 2024-11-09	2024-11-29	Ecarotenuto 2024-11-29	2024-11-29
C30000343	B	84401-CEL C10000594	Plastic cable ties used to fix the cable tag should be replaced on all external routing.	.		Gtangianu 2024-11-08			
C30000344	B	84401-CEL C10000594	Missing plastic cable tag inside the panel (UP-200F4)	.		Gtangianu 2024-11-08		Lmussi	
C30000345	B	84401-CEL C10000594	Identification tag wires are wrong.	.		Gtangianu 2024-11-08			
C30000346	B	84401-CEL C10000594	Platic cable ties to be replaced on external routing.Cable needs to be fixed also on cable trays inside B-400.	.		Gtangianu 2024-11-08			
C30000347	B	84401-CEL C10000594	Missing ties to be fix wire grounding armour cable .	.		Gtangianu 2024-11-08			
C30000348	B	84401-CEL C10000594	Identification number on terminal strip is missing [2]	.		Gtangianu 2024-11-08			
C30000349	B	84402-CEL C10000595	Plastic cable ties used to fix the cable tag should be replaced on all external routing.	.		Gtangianu 2024-11-08			
C30000350	B	84402-CEL C10000595	Identification numbers on terminal strip are missing (PE)	.		Gtangianu 2024-11-08			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	70	Safety and Facility Systems
SUBSYSTEM	70-00	F&G Control System

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000351	B	84402-CEL C10000595	Identification tag wires are wrong.	.		Gtangianu 2024-11-08			
C30000410	B	83107-CEL C10000626	Plastic cable ties to be replaced on external routing	.		Ecarotenuto 2024-11-09			
C30000416	B	83107-CEL C10000626	Missing cable tags on routing, inside and outside the panels	.		Ecarotenuto 2024-11-09			

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	70	Safety and Facility Systems
SUBSYSTEM	70-00	F&G Control System

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000772	A	B400-FGS-002 C10000839	TB-950-JE-04203 number 11, missing the screw inside the terminal strip.	.		Gtangianu 2024-11-22			
C30000222	B	B400-FGS-001	Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact			SLinari 2024-10-14			
C30000223	B	B400-FGS-002	Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact			SLinari 2024-10-14			
C30000224	B	B400-FGS-003	Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact			SLinari 2024-10-14			
C30000225	B	B400-FGS-001	Install and connect system cables (N. 20 type KS1-10/HF, N. 24 AKB331-M010/HF)			SLinari 2024-10-14			
C30000226	B	B400-FGS-002	Install and connect system cables (N. 20 type KS1-10/HF, N. 24 AKB331-M010/HF)			SLinari 2024-10-14			
C30000227	B	B400-FGS-003	Install and connect system cables (N. 20 type KS1-10/HF, N. 24 AKB331-M010/HF)			SLinari 2024-10-14			
C30000375	B	B400-FGS-001	Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact			SLinari 2024-10-14			
C30000376	B	B400-FGS-002	Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact			SLinari 2024-10-14			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 70 Safety and Facility Systems
SUBSYSTEM 70-00 F&G Control System

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000377	B	B400-FGS-003	Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact			SLinari 2024-10-14			
C30000378	B	B400-FGS-001	Install and connect system cables (N. 20 type KS1-07/HF, N. 24 AKB331-M010/HF)			SLinari 2024-10-14			
C30000379	B	B400-FGS-002	Install and connect system cables (N. 20 type KS1-07/HF, N. 24 AKB331-M010/HF)			SLinari 2024-10-14			
C30000380	B	B400-FGS-003	Install and connect system cables (N. 20 type KS1-07/HF, N. 24 AKB331-M010/HF)			SLinari 2024-10-14			
C30000384	B	B400-FGS-001	Modify wiring to implement electrical isolation of limit switches of F&G dampers.			SLinari 2024-10-14			
C30000385	B	B400-FGS-002	Modify wiring to implement electrical isolation of limit switches of F&G dampers.			SLinari 2024-10-14			
C30000386	B	B400-FGS-003	Modify wiring to implement electrical isolation of limit switches of F&G dampers.			SLinari 2024-10-14			
C30000663	B	B400-FGS-001 C10000873	The GA (1724000594-IN-DG-00010) does not match the installed.	.		Gtangianu 2024-11-20			
C30000666	B	B400-FGS-001 C10000873	All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW	.		Gtangianu 2024-11-20			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	70	Safety and Facility Systems
SUBSYSTEM	70-00	F&G Control System

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000667	B	B400-FGS-001 C10000873	The front doors need to be installed.	.		Gtangianu 2024-11-20			
C30000668	B	B400-FGS-001 C10000873	base plate will be installed after commissioning	.		Gtangianu 2024-11-20			
C30000769	B	B400-FGS-002 C10000839	All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW	.		Gtangianu 2024-11-22			
C30000770	B	B400-FGS-002 C10000839	The front doors need to be installed.	.		Gtangianu 2024-11-22			
C30000771	B	B400-FGS-002 C10000839	Internal base plate will be installed after commissioning.	.		Gtangianu 2024-11-22			
C30001041	B	B400-FGS-003 C10000874	All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW	.		Gtangianu 2024-11-29			
C30001043	B	B400-FGS-003 C10000874	Earthing Internal base plate will be installed after commissioning.	.		Gtangianu 2024-11-29			
C30001045	B	B400-FGS-003 C10000874	All cables need to be better dressed inside internal cable tray.	.		Gtangianu 2024-11-29			

Section 2 CONSOLIDATED PUNCH LISTS

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 70 Safety and Facility Systems

SUBSYSTEM 70-00 F&G Control System

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000415	A	83107-CEL C10000626	multiple earthing cables connected to one earthing connection. (See attached photo) .	.		Ecarotenuto 2024-11-09	2024-11-29	Ecarotenuto 2024-11-29	2024-11-29
C30000343	B	84401-CEL C10000594	Plastic cable ties used to fix the cable tag should be replaced on all external routing.	.		Gtangianu 2024-11-08	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000344	B	84401-CEL C10000594	Missing plastic cable tag inside the panel (UP-200F4)	.		Gtangianu 2024-11-08	2024-11-23	Lmussi 2024-11-23	2024-11-23
C30000345	B	84401-CEL C10000594	Identification tag wires are wrong.	.		Gtangianu 2024-11-08	2024-12-16	Gtangianu 2024-12-16	2024-12-16
C30000346	B	84401-CEL C10000594	Platic cable ties to be replaced on external routing.Cable needs to be fixed also on cable trays inside B-400.	.		Gtangianu 2024-11-08	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000347	B	84401-CEL C10000594	Missing ties to be fix wire grounding armour cable .	.		Gtangianu 2024-11-08	2025-02-21	JKrizanic 2025-02-21	2025-02-21
C30000348	B	84401-CEL C10000594	Identification number on terminal strip is missing [2]	.		Gtangianu 2024-11-08	2025-03-11	JKrizanic 2025-03-11	2025-03-11
C30000349	B	84402-CEL C10000595	Plastic cable ties used to fix the cable tag should be replaced on all external routing.	.		Gtangianu 2024-11-08	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000350	B	84402-CEL C10000595	Identification numbers on terminal strip are missing (PE)	.		Gtangianu 2024-11-08	2025-04-24	Gtangianu 2025-04-24	2025-04-24

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	70	Safety and Facility Systems
SUBSYSTEM	70-00	F&G Control System

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000351	B	84402-CEL C10000595	Identification tag wires are wrong.	.		Gtangianu 2024-11-08	2024-12-16	Gtangianu 2024-12-16	2024-12-16
C30000410	B	83107-CEL C10000626	Plastic cable ties to be replaced on external routing	.		Ecarotenuto 2024-11-09	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000416	B	83107-CEL C10000626	Missing cable tags on routing, inside and outside the panels	.		Ecarotenuto 2024-11-09	2025-03-04	JKrizanic 2025-03-04	2025-03-04

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 70 Safety and Facility Systems
SUBSYSTEM 70-00 F&G Control System

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000772	A	B400-FGS-002 C10000839	TB-950-JE-04203 number 11, missing the screw inside the terminal strip.	.		Gtangianu 2024-11-22	2025-02-13	Ecarotenuto 2025-02-13	2025-02-13
C30000222	B	B400-FGS-001	Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact		INSTALLED	SLinari 2024-10-14	SLinari 2024-12-10	SLinari 2024-12-10	2024-12-10
C30000223	B	B400-FGS-002	Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact		SEE PL C30000222	SLinari 2024-10-14	SLinari 2024-12-10	SLinari 2024-12-10	2024-12-10
C30000224	B	B400-FGS-003	Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact		SEE PL C30000222	SLinari 2024-10-14	SLinari 2024-12-10	SLinari 2024-12-10	2024-12-10
C30000225	B	B400-FGS-001	Install and connect system cables (N. 20 type KS1-10/HF, N. 24 AKB331-M010/HF)		commissioning done	SLinari 2024-10-14	SLinari 2025-02-06	SLinari 2025-02-06	2025-02-06
C30000226	B	B400-FGS-002	Install and connect system cables (N. 20 type KS1-10/HF, N. 24 AKB331-M010/HF)		COMMISSIONING DONE	SLinari 2024-10-14	SLinari 2025-02-06	SLinari 2025-02-06	2025-02-06
C30000227	B	B400-FGS-003	Install and connect system cables (N. 20 type KS1-10/HF, N. 24 AKB331-M010/HF)		COMMISSIONING DONE	SLinari 2024-10-14	SLinari 2025-02-06	SLinari 2025-02-06	2025-02-06
C30000375	B	B400-FGS-001	Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact			SLinari 2024-10-14	2024-12-07	LNovaga 2024-12-07	2024-12-07
C30000376	B	B400-FGS-002	Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact			SLinari 2024-10-14	2024-12-07	LNovaga 2024-12-07	2024-12-07

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 70 Safety and Facility Systems
SUBSYSTEM 70-00 F&G Control System

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000377	B	B400-FGS-003	Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact			SLinari 2024-10-14	2024-12-07	LNovaga 2024-12-07	2024-12-07
C30000378	B	B400-FGS-001	Install and connect system cables (N. 20 type KS1-07/HF, N. 24 AKB331-M010/HF)			SLinari 2024-10-14	2024-12-07	LNovaga 2024-12-07	2024-12-07
C30000379	B	B400-FGS-002	Install and connect system cables (N. 20 type KS1-07/HF, N. 24 AKB331-M010/HF)			SLinari 2024-10-14	2024-12-07	LNovaga 2024-12-07	2024-12-07
C30000380	B	B400-FGS-003	Install and connect system cables (N. 20 type KS1-07/HF, N. 24 AKB331-M010/HF)			SLinari 2024-10-14	2024-12-07	LNovaga 2024-12-07	2024-12-07
C30000384	B	B400-FGS-001	Modify wiring to implement electrical isolation of limit switches of F&G dampers.		Done	SLinari 2024-10-14	Vendor 2025-03-07	SLinari 2025-03-07	2025-03-07
C30000385	B	B400-FGS-002	Modify wiring to implement electrical isolation of limit switches of F&G dampers.		Done	SLinari 2024-10-14	Vendor 2025-03-07	SLinari 2025-03-07	2025-03-07
C30000386	B	B400-FGS-003	Modify wiring to implement electrical isolation of limit switches of F&G dampers.		Done	SLinari 2024-10-14	Vendor 2025-03-07	SLinari 2025-03-07	2025-03-07
C30000663	B	B400-FGS-001 C10000873	The GA (1724000594-IN-DG-00010) does not match the installed.	.		Gtangianu 2024-11-20	2025-02-28	Ecarotenuto 2025-02-28	2025-02-28
C30000666	B	B400-FGS-001 C10000873	All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW	.	The issuance of the as-built documentation is part of the vendor's contractual	Gtangianu 2024-11-20	RDegliEsposti 2025-06-16	RDegliEsposti 2025-06-16	2025-06-16

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	70	Safety and Facility Systems
SUBSYSTEM	70-00	F&G Control System

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000667	B	B400-FGS-001 C10000873	The front doors need to be installed.	.		Gtangianu 2024-11-20	2024-12-23	Ecarotenuto 2024-12-23	2024-12-23
C30000668	B	B400-FGS-001 C10000873	base plate will be installed after commissioning	.		Gtangianu 2024-11-20	2025-04-11	Gtangianu 2025-04-11	2025-04-11
C30000769	B	B400-FGS-002 C10000839	All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW	.		Gtangianu 2024-11-22	RDegliEsposti 2025-06-16	RDegliEsposti 2025-06-16	2025-06-16
C30000770	B	B400-FGS-002 C10000839	The front doors need to be installed.	.		Gtangianu 2024-11-22	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30000771	B	B400-FGS-002 C10000839	Internal base plate will be installed after commissioning.	.		Gtangianu 2024-11-22	2025-04-11	Gtangianu 2025-04-11	2025-04-11
C30001041	B	B400-FGS-003 C10000874	All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW	.	The issuance of the as-built documentation is part of the vendor’s contractual	Gtangianu 2024-11-29	RDegliEsposti 2025-06-16	RDegliEsposti 2025-06-16	2025-06-16
C30001043	B	B400-FGS-003 C10000874	Earthing Internal base plate will be installed after commissioning.	.		Gtangianu 2024-11-29	2025-04-11	Gtangianu 2025-04-11	2025-04-11
C30001045	B	B400-FGS-003 C10000874	All cables need to be better dressed inside internal cable tray.	.		Gtangianu 2024-11-29	2025-02-26	Gtangianu 2025-02-26	2025-02-26

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000379

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-FGS-002		FGS Marshalling Cabinet 1
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

Install and connect system cables (N. 20 type KS1-07/HF, N. 24 AKB331-M010/HF)

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Refer to punch number: C30000226

Name Lorenzo Novaga

Date 2024-12-07

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000378

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task

1.4 Discipline Instrumental

1.2 Item B400-FGS-001 FGS System Cabinet

1.3 Subsystem 70-00 F&G Control System

2 - OBSERVATION

Install and connect system cables (N. 20 type KS1-07/HF, N. 24 AKB331-M010/HF)

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority B PL B

3.4 Activity code FAT factory acceptance test

3.5 Action by

Name Stefano Linari

Date 2024-10-14

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

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Refer to punch number: C30000225

Name Lorenzo Novaga

Date 2024-12-07

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000377

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-FGS-003		FGS Marshalling Cabinet 2
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Refer to punch number: C30000224

Name Lorenzo Novaga

Date 2024-12-07

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000376

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-FGS-002		FGS Marshalling Cabinet 1
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Refer to punch number: C30000223

Name Lorenzo Novaga

Date 2024-12-07

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000375

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task

1.4 Discipline Instrumental

1.2 Item B400-FGS-001 FGS System Cabinet

1.3 Subsystem 70-00 F&G Control System

2 - OBSERVATION

Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority B PL B

3.4 Activity code FAT factory acceptance test

3.5 Action by

Name Stefano Linari

Date 2024-10-14

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

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Refer to punch number: C30000222

Name Lorenzo Novaga

Date 2024-12-07

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000351

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000595	CPX09	1.4 Discipline	Electrical
1.2 Item	84402-CEL			
1.3 Subsystem	70-00			

2 - OBSERVATION

Identification tag wires are wrong.

Name: Giovanni Tangianu

Date: 2024-11-07

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	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2024-12-16

Signature:

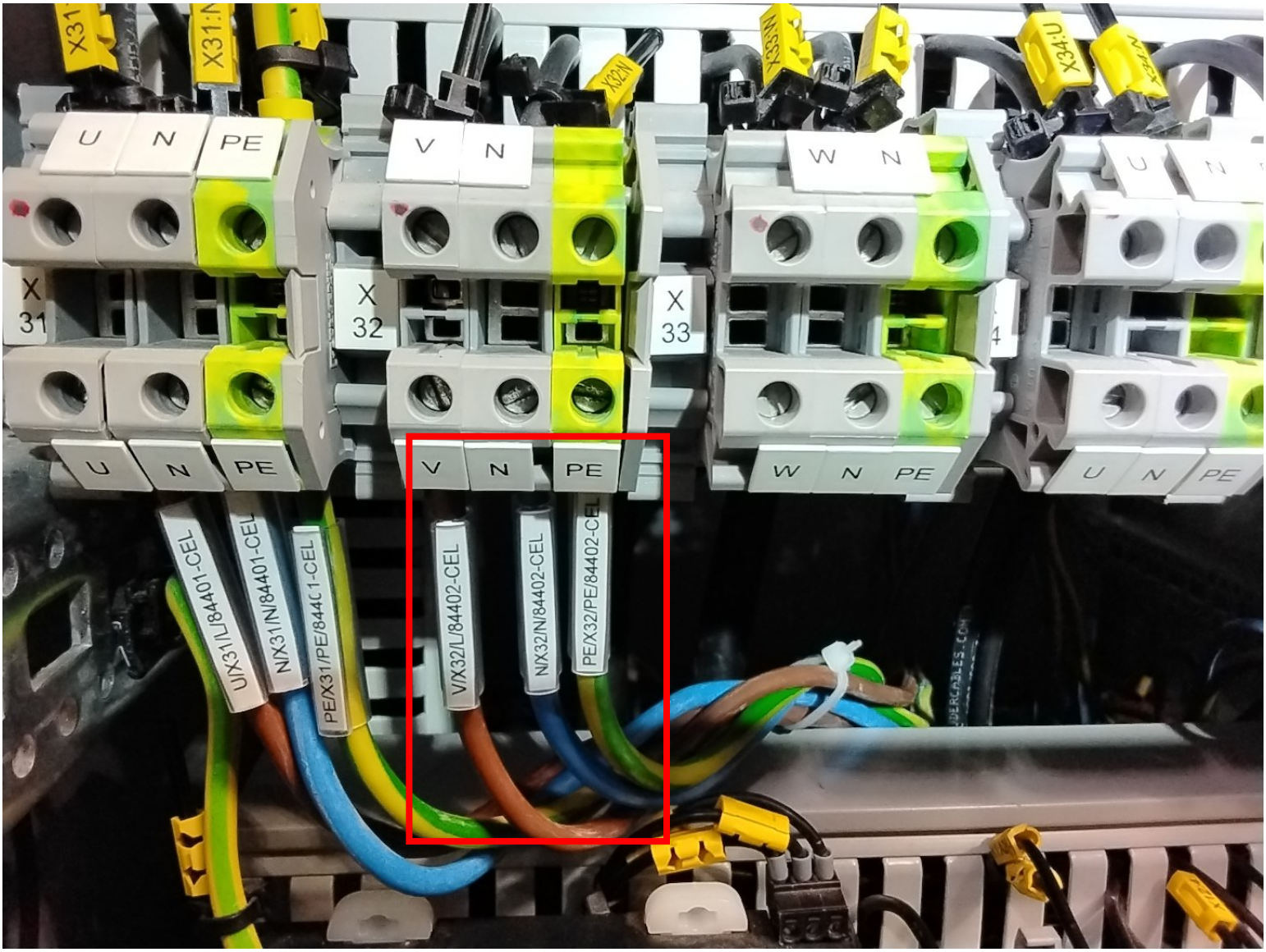
6- CLEARANCE APPROVAL

Name:

Date:

Signature:

2024-11-07 15:00 By Giovanni Tangianu



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000350

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000595	CPX09	1.4 Discipline	Electrical
1.2 Item	84402-CEL		AC UPS - F&G DB / FGS Fire & Gas Panel - Line B	
1.3 Subsystem	70-00		F&G Control System	

2 - OBSERVATION

Identification numbers on terminal strip are missing (PE)

Name: Giovanni Tangianu

Date: 2024-11-07

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	2024-11-08
3.5 Action by	PRE-COMM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-24

Signature:

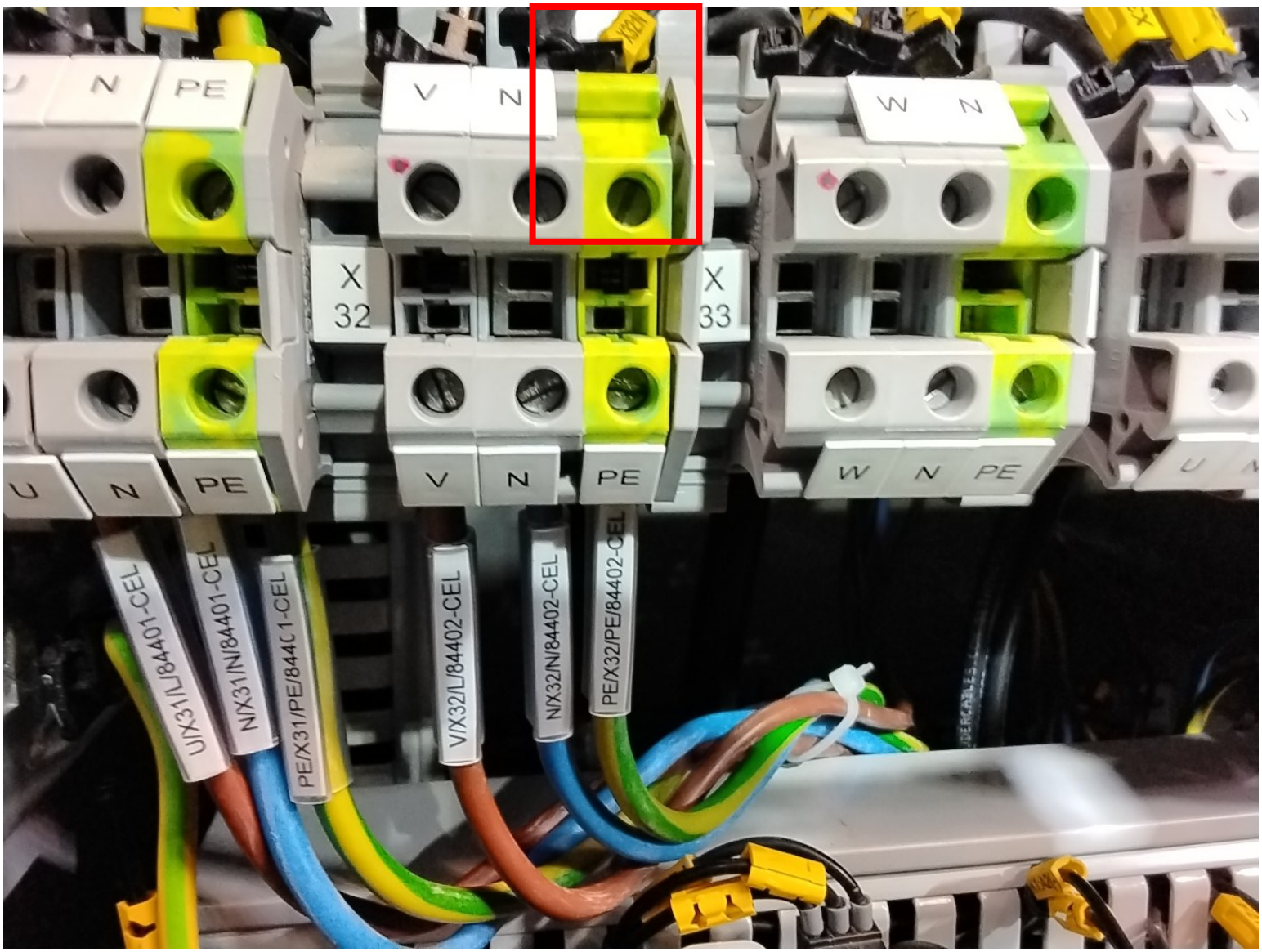
6- CLEARANCE APPROVAL

Name:

Date:

Signature:

2024-11-07 14:47 By Giovanni Tangianu



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000349

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000595	1.4 Discipline	Electrical
1.2 Item	84402-CEL		AC UPS - F&G DB / FGS Fire & Gas Panel - Line B
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

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

Name: Giovanni Tangianu

Date: 2024-11-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000348

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000594	CPX09	1.4 Discipline	Electrical
1.2 Item	84401-CEL			
1.3 Subsystem	70-00			

2 - OBSERVATION

Identification number on terminal strip is missing [2]

Name: Giovanni Tangianu

Date: 2024-11-07

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	2024-11-08
3.5 Action by	VND Vendor	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic

Date: 2025-03-11

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

2024-11-07 11:49 By Giovanni Tangianu

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000347

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000594	1.4 Discipline	Electrical
1.2 Item	84401-CEL		AC UPS - F&G DB / FGS Fire & Gas Panel - Line A
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

Missing ties to be fix wire grounding armour cable .

Name: Giovanni Tangianu
Date: 2024-11-08
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

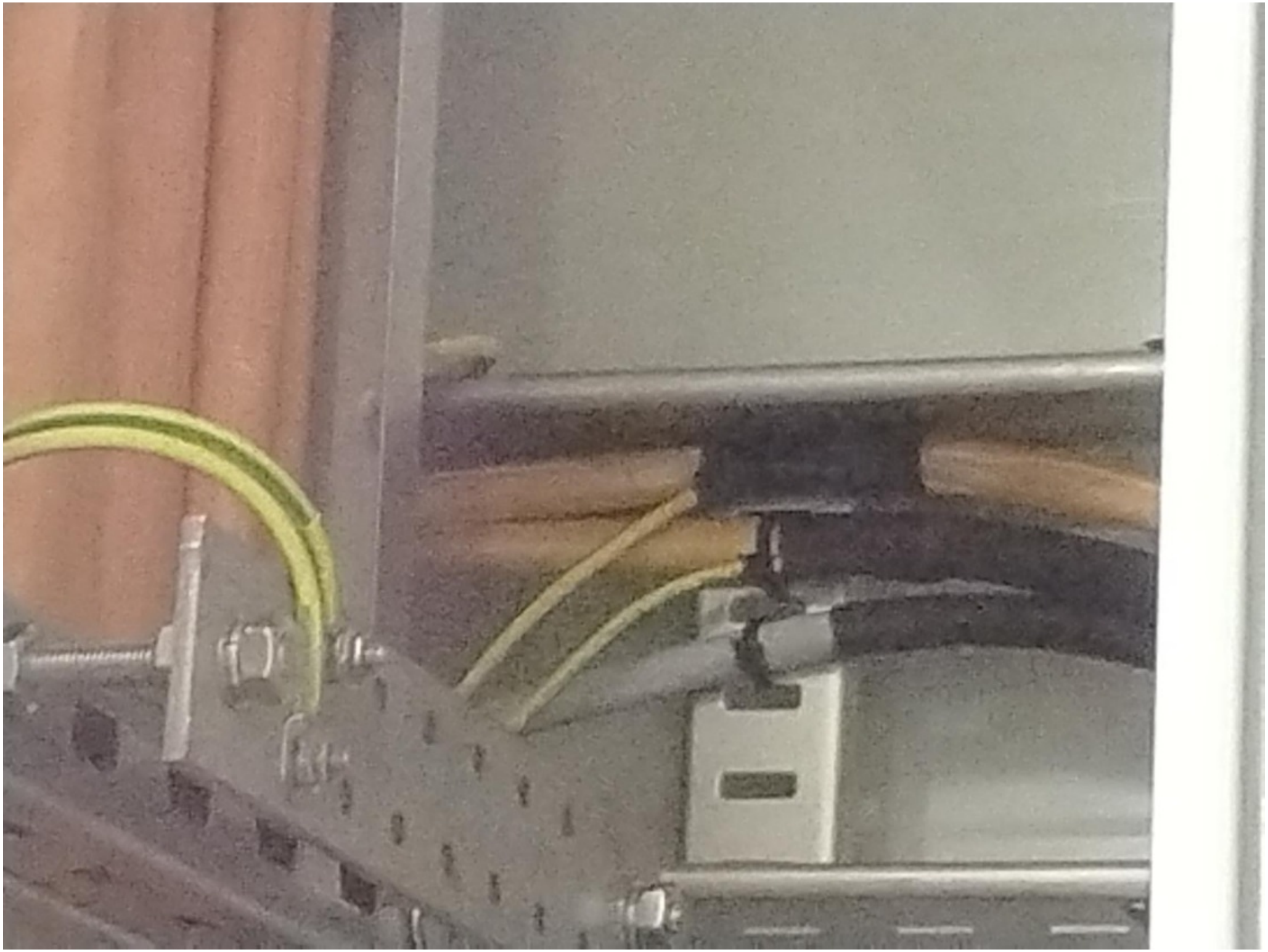
5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic
Date: 2025-02-21
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000346

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000594	1.4 Discipline	Electrical
1.2 Item	84401-CEL		AC UPS - F&G DB / FGS Fire & Gas Panel - Line A
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

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

Name: Giovanni Tangianu

Date: 2024-11-08

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000345

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000594	CPX09	1.4 Discipline	Electrical
1.2 Item	84401-CEL			
1.3 Subsystem	70-00			

2 - OBSERVATION

Identification tag wires are wrong.

Name: Giovanni Tangianu

Date: 2024-11-07

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	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

installed.

Name: Giovanni Tangianu

Date: 2024-12-16

Signature:

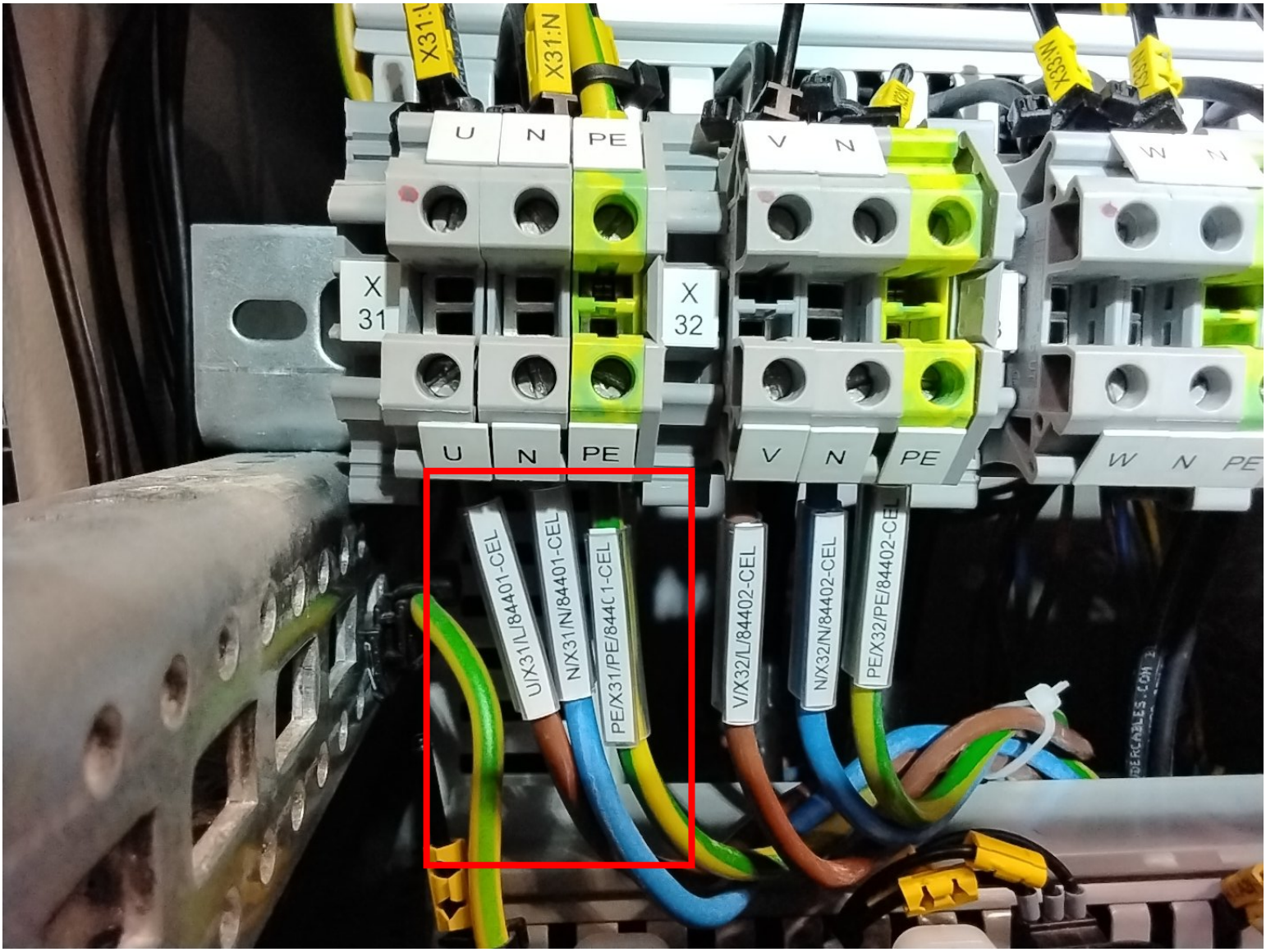
6- CLEARANCE APPROVAL

Name:

Date:

Signature:

2024-11-07 14:59 By Giovanni Tangianu



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000344

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000594	CPX09	1.4 Discipline	Electrical
1.2 Item	84401-CEL			
1.3 Subsystem	70-00			

2 - OBSERVATION

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

Name: Giovanni Tangianu

Date: 2024-11-07

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	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-11-21

Signature:

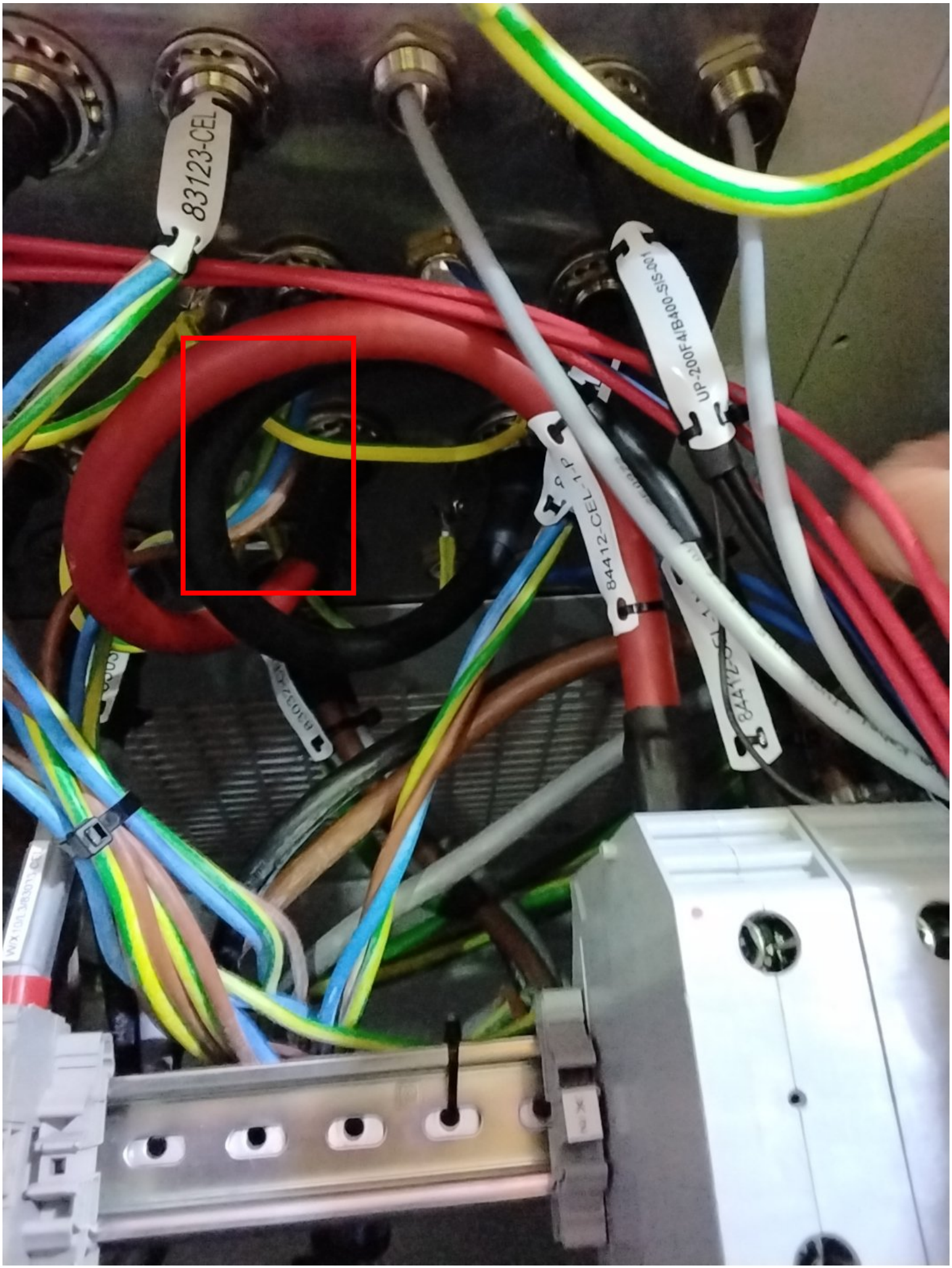
6- CLEARANCE APPROVAL

Name:

Date:

Signature:

2024-11-07 14:53 By Giovanni Tangianu




84401-CEL

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000343

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000594	1.4 Discipline	Electrical
1.2 Item	84401-CEL		AC UPS - F&G DB / FGS Fire & Gas Panel - Line A
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

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

Name: Giovanni Tangianu

Date: 2024-11-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000227

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-FGS-003		FGS Marshalling Cabinet 2
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

Install and connect system cables (N. 20 type KS1-10/HF, N. 24 AKB331-M010/HF)

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

COMMISSIONING DONE

Name VENDOR YOKOGAWA

Date 2025-02-06

Signature

5 - CLEARANCE CHECK

COMMISSIONING DONE

Name Stefano Linari

Date 2025-02-06

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

Linari Stefano (Rosetti)

Da: Sirigu Fabio (ERM)
Inviato: mercoledì 5 febbraio 2025 14:59
A: Linari Stefano (Rosetti)
Cc: Iveson Anthony (ERM); Casagrande Davide (ERM)
Oggetto: 123A90 CW // Punch list FAT HW

Ciao,
ti inforno che le presenti punch sono state chiuse:

3.	N107		HKN-WPO1-BLPH-NET-01 / HKN-WPO1-BLPH-SRV-01	M.Dossena	Missing Axioline module (Phoenix Contact) to be used to connect diagnostic signals to be exchanged via Modbus.		B	YOK		
6.	F004		B400-FGS-001/002/003	M.Dossena	Install and connect system cables (N. 20 type KS1-10/HF, N. 24 AKB331-M010/HF)		B	YOK		

Ciao

Fabio SIRIGU
Commissioning Lead Automation
CROSSWIND BLPH PROJECT

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000226

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-FGS-002		FGS Marshalling Cabinet 1
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

Install and connect system cables (N. 20 type KS1-10/HF, N. 24 AKB331-M010/HF)

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

COMMISSIONING DONE

Name VENDOR YOKOGAWA

Date 2025-02-06

Signature

5 - CLEARANCE CHECK

COMMISSIONING DONE

Name Stefano Linari

Date 2025-02-06

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

Linari Stefano (Rosetti)

Da: Sirigu Fabio (ERM)
Inviato: mercoledì 5 febbraio 2025 14:59
A: Linari Stefano (Rosetti)
Cc: Iveson Anthony (ERM); Casagrande Davide (ERM)
Oggetto: 123A90 CW // Punch list FAT HW

Ciao,
ti inforno che le presenti punch sono state chiuse:

3.	N107		HKN-WPO1-BLPH-NET-01 / HKN-WPO1-BLPH-SRV-01	M.Dossena	Missing Axioline module (Phoenix Contact) to be used to connect diagnostic signals to be exchanged via Modbus.		B	YOK		
6.	F004		B400-FGS-001/002/003	M.Dossena	Install and connect system cables (N. 20 type KS1-10/HF, N. 24 AKB331-M010/HF)		B	YOK		

Ciao

Fabio SIRIGU
Commissioning Lead Automation
CROSSWIND BLPH PROJECT

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000225

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-FGS-001		FGS System Cabinet
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

Install and connect system cables (N. 20 type KS1-10/HF, N. 24 AKB331-M010/HF)

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

commissioning done

Name VENDOR YOKOGAWA

Date 2025-02-06

Signature

5 - CLEARANCE CHECK

commissioning done

Name Stefano Linari

Date 2025-02-06

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

Linari Stefano (Rosetti)

Da: Sirigu Fabio (ERM)
Inviato: mercoledì 5 febbraio 2025 14:59
A: Linari Stefano (Rosetti)
Cc: Iveson Anthony (ERM); Casagrande Davide (ERM)
Oggetto: 123A90 CW // Punch list FAT HW

Ciao,
ti inforno che le presenti punch sono state chiuse:

3.	N107		HKN-WPO1-BLPH-NET-01 / HKN-WPO1-BLPH-SRV-01	M.Dossena	Missing Axioline module (Phoenix Contact) to be used to connect diagnostic signals to be exchanged via Modbus.		B	YOK		
6.	F004		B400-FGS-001/002/003	M.Dossena	Install and connect system cables (N. 20 type KS1-10/HF, N. 24 AKB331-M010/HF)		B	YOK		

Ciao

Fabio SIRIGU
Commissioning Lead Automation
CROSSWIND BLPH PROJECT

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000224

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-FGS-003		FGS Marshalling Cabinet 2
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

SEE PL C30000222

Name VENDOR YOKOGAWA

Date 2024-12-10

Signature

5 - CLEARANCE CHECK

SEE PL C30000222

Name Stefano Linari

Date 2024-12-10

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000223

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-FGS-002		FGS Marshalling Cabinet 1
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

SEE PL C30000222

Name VENDOR YOKOGAWA

Date 2024-12-10

Signature

5 - CLEARANCE CHECK

SEE PL C30000222

Name Stefano Linari

Date 2024-12-10

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000222

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-FGS-001		FGS System Cabinet
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

Replace disconnector switches Q22 and Q23 with the right rating 32A, with NO auxiliary contact

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

INSTALLED

Name VENDOR YOKOGAWA

Date 2024-12-10

Signature

5 - CLEARANCE CHECK

INSTALLED

Name Stefano Linari

Date 2024-12-10

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature


EATON
Q22
EATON
Q21

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001045

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000874	1.4 Discipline	Instrumental
1.2 Item	B400-FGS-003	FGS Marshalling Cabinet 2	
1.3 Subsystem	70-00	F&G Control System	

2 - OBSERVATION

All cables need to be better dressed inside internal cable tray.

Name: Giovanni Tangianu

Date: 2024-11-29

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-11-29
3.5 Action by	PRE-COMM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Giovanni Tangianu

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001043

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000874	1.4 Discipline	Instrumental
1.2 Item	B400-FGS-003	FGS Marshalling Cabinet 2	
1.3 Subsystem	70-00	F&G Control System	

2 - OBSERVATION

Earthing Internal base plate will be installed after commissioning.

Name: Giovanni Tangianu

Date: 2024-11-29

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-11-29
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-11

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001041

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000874	1.4 Discipline	Instrumental
1.2 Item	B400-FGS-003	FGS Marshalling Cabinet 2	
1.3 Subsystem	70-00	F&G Control System	

2 - OBSERVATION

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

Name: Giovanni Tangianu

Date: 2024-11-29

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-11-29
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

The issuance of the as-built documentation is part of the vendor's contractual obligations. This punch item is essentially a warning/reminder. All documentation listed in the SMIR must be approved with code 1 by RM and CW. The final vendor dossier is subject to approval.

Strictly speaking, this punch should not have been raised, as the requirement to issue final documentation was already implicit in the vendor scope. In principle, the same punch would have applied to all vendor packages.

Name: Raffaele Degli Esposti

Date: 2025-06-16

Signature:

5 - CLEARANCE CHECK

Refer to punch number: C30000227

Name: Raffaele Degli Esposti

Date: 2025-06-16

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000772

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000839	1.4 Discipline	Instrumental
1.2 Item	B400-FGS-002	FGS Marshalling Cabinet 1	
1.3 Subsystem	70-00	F&G Control System	

2 - OBSERVATION

TB-950-JE-04203 number 11, missing the screw inside the terminal strip.

Name: Giovanni Tangianu

Date: 2024-11-22

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	2024-11-22
3.5 Action by	VND Vendor	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Replaced

Name: Eleonora Carotenuto

Date: 2025-02-13

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


TB-950-JE-04207

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000771

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000839	1.4 Discipline	Instrumental
1.2 Item	B400-FGS-002	FGS Marshalling Cabinet 1	
1.3 Subsystem	70-00	F&G Control System	

2 - OBSERVATION

Internal base plate will be installed after commissioning.

Name: Giovanni Tangianu

Date: 2024-11-22

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-11-22
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-11

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000770

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000839	1.4 Discipline	Instrumental
1.2 Item	B400-FGS-002	FGS Marshalling Cabinet 1	
1.3 Subsystem	70-00	F&G Control System	

2 - OBSERVATION

The front doors need to be installed.

Name: Giovanni Tangianu

Date: 2024-11-22

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-11-22
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-12-27

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000769

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000839	1.4 Discipline	Instrumental
1.2 Item	B400-FGS-002	FGS Marshalling Cabinet 1	
1.3 Subsystem	70-00	F&G Control System	

2 - OBSERVATION

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

Name: Giovanni Tangianu

Date: 2024-11-22

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-11-22
3.5 Action by	VND Vendor	Signature	

4 - PERFORMED ACTION

Name: Raffaele Degli Esposti

Date: 2025-06-16

Signature:

5 - CLEARANCE CHECK

The issuance of the as-built documentation is part of the vendor's contractual obligations. This punch item is essentially a warning/reminder. All documentation listed in the SMIR must be approved with code 1 by RM and CW. The final vendor dossier is subject to approval.

Strictly speaking, this punch should not have been raised, as the requirement to issue final documentation was already implicit in the vendor scope. In principle, the same punch would have applied to all vendor packages.

Name: Raffaele Degli Esposti

Date: 2025-06-16

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000668

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000873	1.4 Discipline	Instrumental
1.2 Item	B400-FGS-001	FGS System Cabinet	
1.3 Subsystem	70-00	F&G Control System	

2 - OBSERVATION

base plate will be installed after commissioning

Name: Giovanni Tangianu

Date: 2024-11-20

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	2024-11-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-11

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000667

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000873	1.4 Discipline	Instrumental
1.2 Item	B400-FGS-001	FGS System Cabinet	
1.3 Subsystem	70-00	F&G Control System	

2 - OBSERVATION

The front doors need to be installed.

Name: Giovanni Tangianu

Date: 2024-11-20

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	2024-11-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-12-23

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000666

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000873	1.4 Discipline	Instrumental
1.2 Item	B400-FGS-001	FGS System Cabinet	
1.3 Subsystem	70-00	F&G Control System	

2 - OBSERVATION

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

Name: Giovanni Tangianu
Date: 2024-11-20
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-11-20
3.5 Action by	VND Vendor	Signature	

4 - PERFORMED ACTION

The issuance of the as-built documentation is part of the vendor's contractual obligations. This punch item is essentially a warning/reminder. All documentation listed in the SMIR must be approved with code 1 by RM and CW. The final vendor dossier is subject to approval.

Strictly speaking, this punch should not have been raised, as the requirement to issue final documentation was already implicit in the vendor scope. In principle, the same punch would have applied to all vendor packages.

Name: Raffaele Degli Esposti
Date: 2025-06-16
Signature:

5 - CLEARANCE CHECK

Refer to punch number: C30000227

Name: Raffaele Degli Esposti
Date: 2025-06-16
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000663

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000873	1.4 Discipline	Instrumental
1.2 Item	B400-FGS-001	FGS System Cabinet	
1.3 Subsystem	70-00	F&G Control System	

2 - OBSERVATION

The GA (1724000594-IN-DG-00010) does not match the installed.

Name: Giovanni Tangianu

Date: 2024-11-20

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	2024-11-20
3.5 Action by	VND Vendor	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Duplicate point. Refer to PL n° C30000663

Name: Eleonora Carotenuto

Date: 2025-02-28

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000416

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000626	CPX09	1.4 Discipline	Electrical
1.2 Item	83107-CEL			Lighting & Small Power DB BoP / FGS Fire & Gas Panel - Auxiliary
1.3 Subsystem	70-00			F&G Control System

2 - OBSERVATION

Missing cable tags on routing, inside and outside the panels

Name: Giovanni Tangianu

Date: 2024-11-08

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Eleonora Carotenuto
3.4 Activity code	MC Mechanical Completion	Date	2024-11-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic

Date: 2025-03-04

Signature:

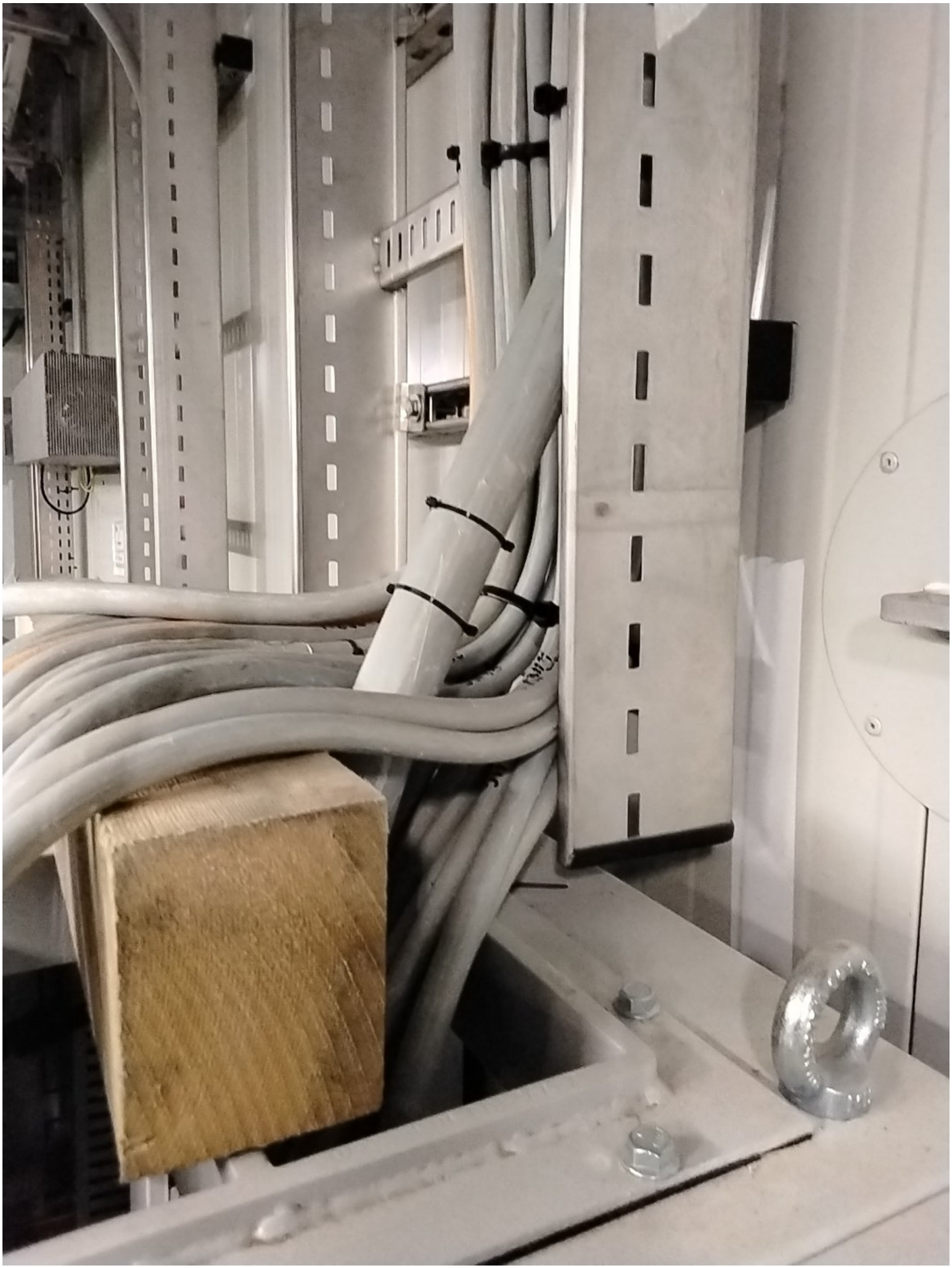
6- CLEARANCE APPROVAL

Name:

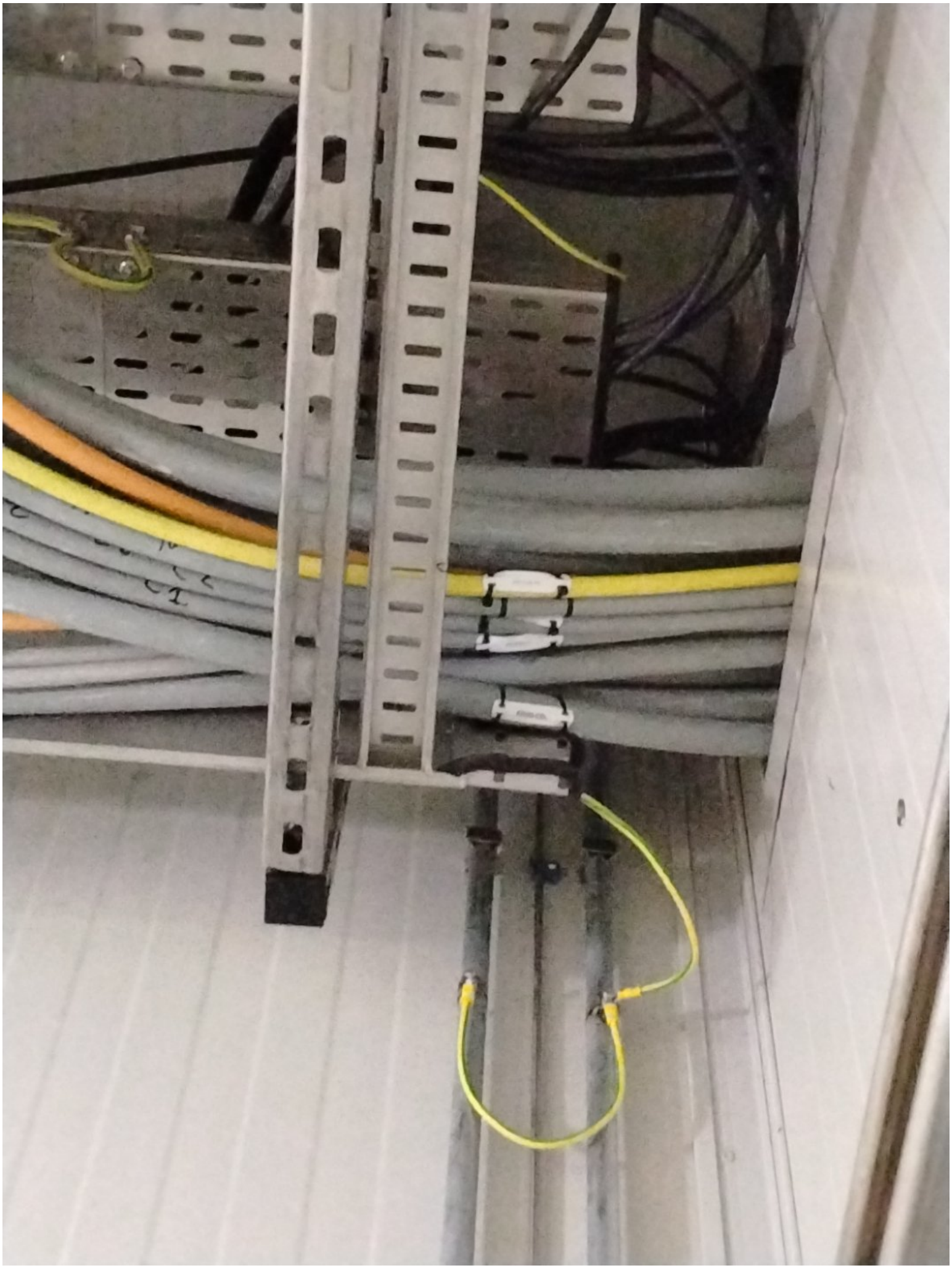
Date:

Signature:

2024-11-08 09:53 By Giovanni Tangianu



2024-11-08 09:53 By Giovanni Tangianu



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000415

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000626	CPX09	1.4 Discipline	Electrical
1.2 Item	83107-CEL			Lighting & Small Power DB BoP / FGS Fire & Gas Panel - Auxiliary
1.3 Subsystem	70-00			F&G Control System

2 - OBSERVATION

multiple earthing cables connected to one earthing connection. (See attached photo) .

Name: Giovanni Tangianu

Date: 2024-11-08

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Eleonora Carotenuto
3.4 Activity code	MC Mechanical Completion	Date	2024-11-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-11-29

Signature:

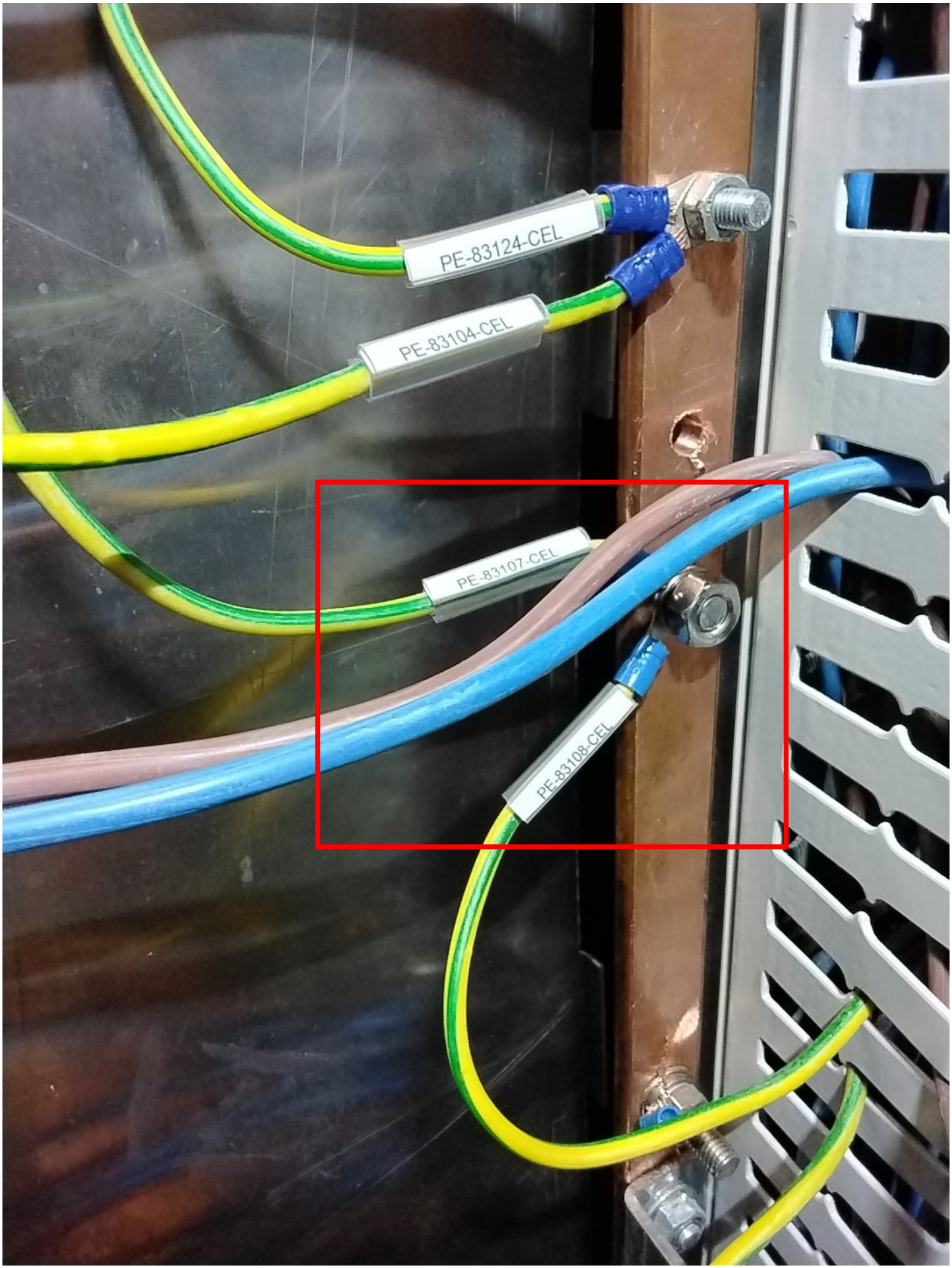
6- CLEARANCE APPROVAL

Name:

Date:

Signature:

2024-11-08 09:56 By Giovanni Tangianu



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000410

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000626	CPX09	1.4 Discipline	Electrical
1.2 Item	83107-CEL			Lighting & Small Power DB BoP / FGS Fire & Gas Panel - Auxiliary
1.3 Subsystem	70-00			F&G Control System

2 - OBSERVATION

Plastic cable ties to be replaced on external routing

Name: Giovanni Tangianu

Date: 2024-11-08

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Eleonora Carotenuto
3.4 Activity code	MC Mechanical Completion	Date	2024-11-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000386

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-FGS-003		FGS Marshalling Cabinet 2
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

Modify wiring to implement electrical isolation of limit switches of F&G dampers.

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

Done

Name YOKOGAWA

Date 2025-03-07

Signature

5 - CLEARANCE CHECK

Done

Name Stefano Linari

Date 2025-03-07

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000385

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-FGS-002		FGS Marshalling Cabinet 1
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

Modify wiring to implement electrical isolation of limit switches of F&G dampers.

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

Done

Name YOKOGAWA

Date 2025-03-07

Signature

5 - CLEARANCE CHECK

Done

Name Stefano Linari

Date 2025-03-07

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000384

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-FGS-001		FGS System Cabinet
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

Modify wiring to implement electrical isolation of limit switches of F&G dampers.

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

Done

Name YOKOGAWA

Date 2025-03-07

Signature

5 - CLEARANCE CHECK

Done

Name Stefano Linari

Date 2025-03-07

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000380

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-FGS-003		FGS Marshalling Cabinet 2
1.3 Subsystem	70-00		F&G Control System

2 - OBSERVATION

Install and connect system cables (N. 20 type KS1-07/HF, N. 24 AKB331-M010/HF)

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Refer to punch number: C30000227

Name	Lorenzo Novaga
Date	2024-12-07
Signature	

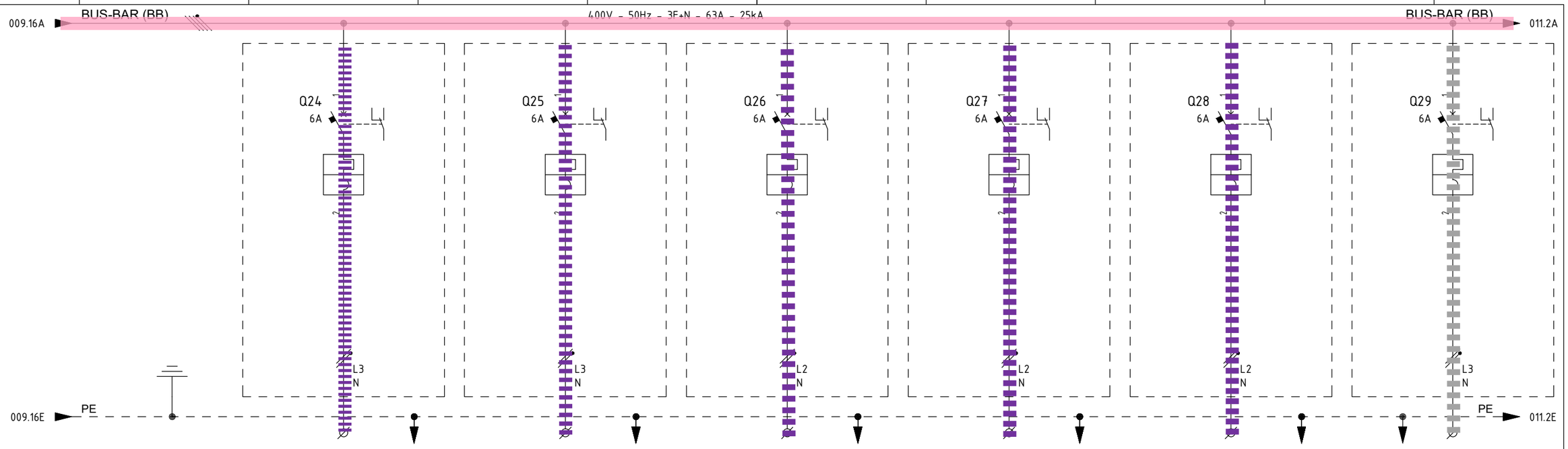
6- CLEARANCE APPROVAL

Name

Date

Signature

Section 3 SYSTEM,SUB-SYSTEM LIMIT DRAWINGS



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

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

=
+

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

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

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "DP-200N1"

SINGLE LINE DIAGRAM

Single Line Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00013

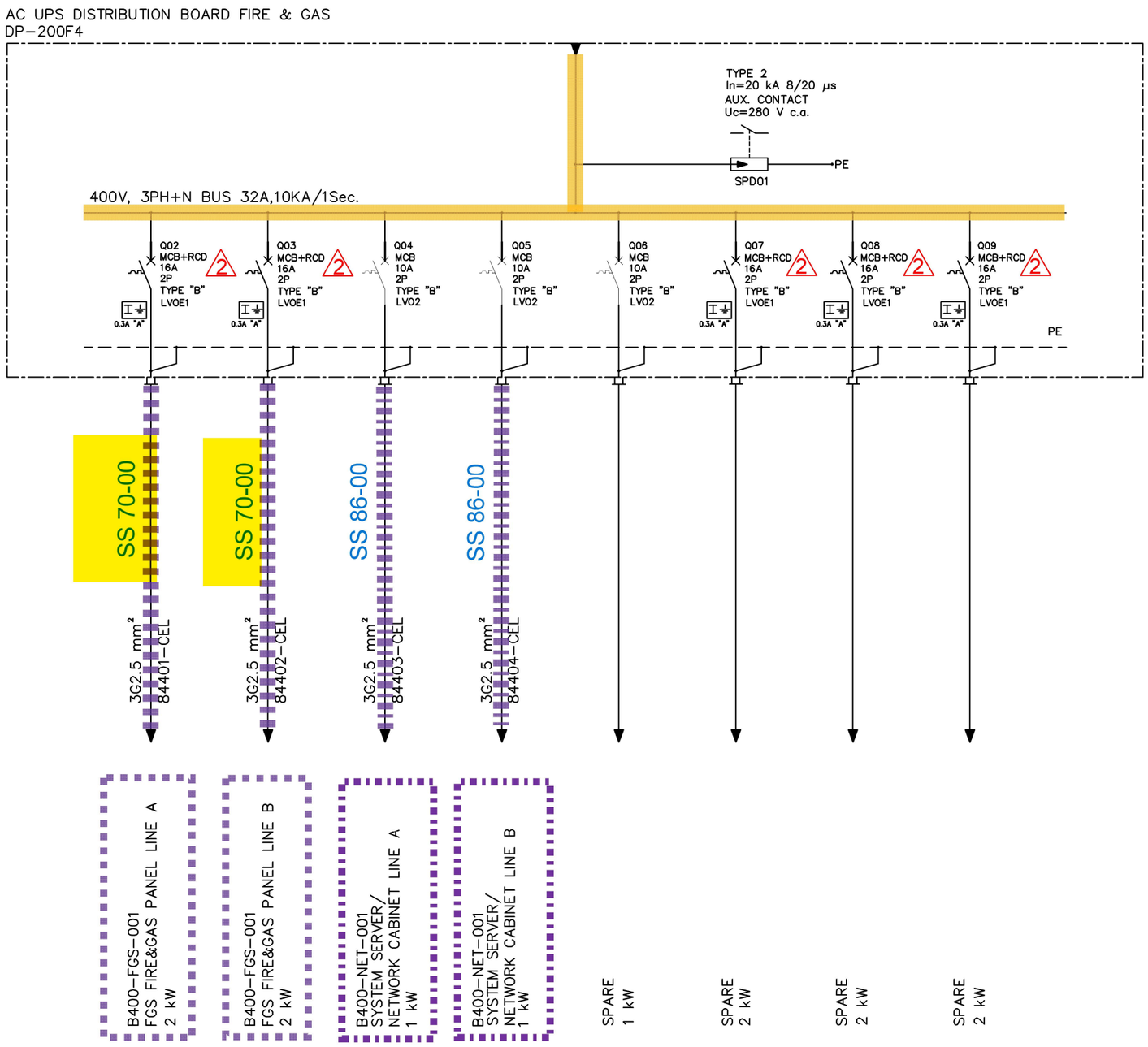
SHEET 010

REV. 03

F.to UNI A3: 420mmx297mm

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

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



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

CROSSWIND

ROSETTI MARINO

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

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

A3 | DRAWING NO. 123A90–DDL–EL–DG–20160 | SHEET 007 | REV. 02

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

F.to UNI A3: 420mmx297mm

Section 4 MECHANICAL COMPLETION STATUS INDEX - BUILDING DISCIPLINE

NOT APPLICABLE

Section 5 MECHANICAL COMPLETION STATUS INDEX - ELECTRICAL DISCIPLINE

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 70-00 & process: MC & discipline : E

Electrical	70-00 F&G Control System						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
83107-CEL	Lighting & Small Power DB BoP / FGS Fire & Gas Panel - Auxiliary	ONSHORE	C10000626	CPX09	100	2024-11-09	RFC 1
84401-CEL	AC UPS - F&G DB / FGS Fire & Gas Panel - Line A	ONSHORE	C10000594	CPX09	100	2024-11-09	RFC 1
84402-CEL	AC UPS - F&G DB / FGS Fire & Gas Panel - Line B	ONSHORE	C10000595	CPX09	100	2024-11-09	RFC 1

ITEM	Tag	84401-CEL	: AC UPS - F&G DB / FGS Fire & Gas Panel - Line A			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	70-00	: F&G Control System			Module	LD_B-300/LD_B-400
TASK	code	C10000594		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2.5 Color Orange

From DP-200F4 To B400-FGS-001

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

REFER TO FINAL SHEET FOR ACCEPTANCE

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	84401-CEL	: AC UPS - F&G DB / FGS Fire & Gas Panel - Line A			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	70-00	: F&G Control System			Module	LD_B-300/LD_B-400
TASK	code	C10000594		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,3	
6		PH 2	0,3	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0.3	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0.3	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

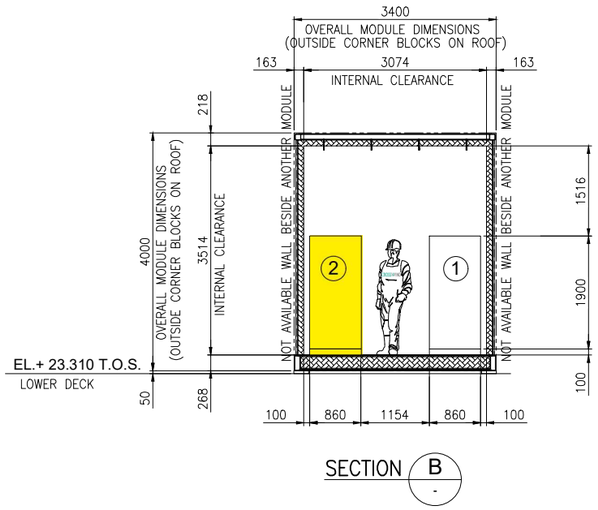
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments:

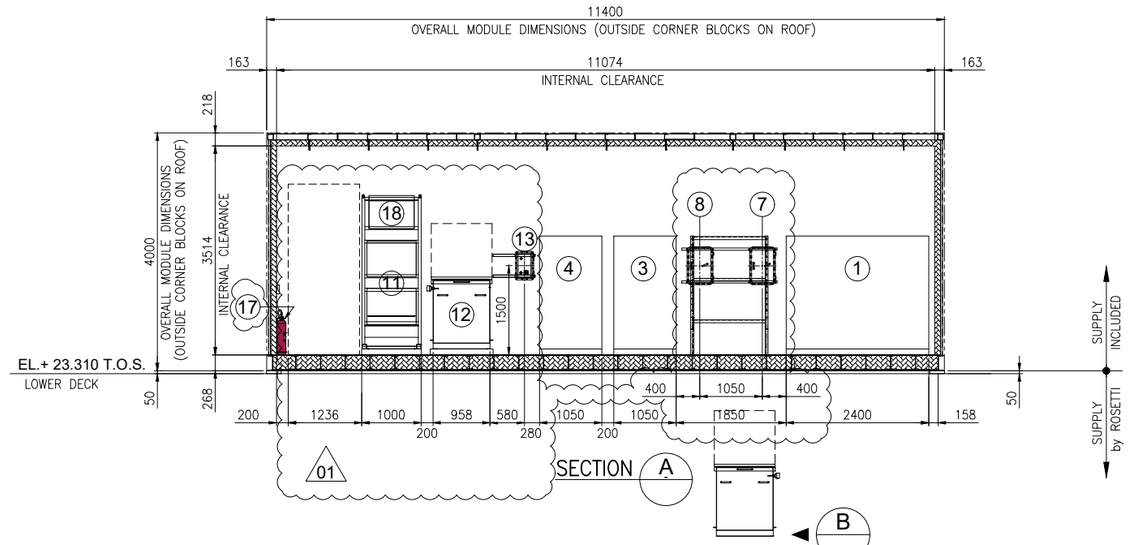
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-06	2024-11-09	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-06T17:14:35.041Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-11-09T10:27:08.158Z	

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

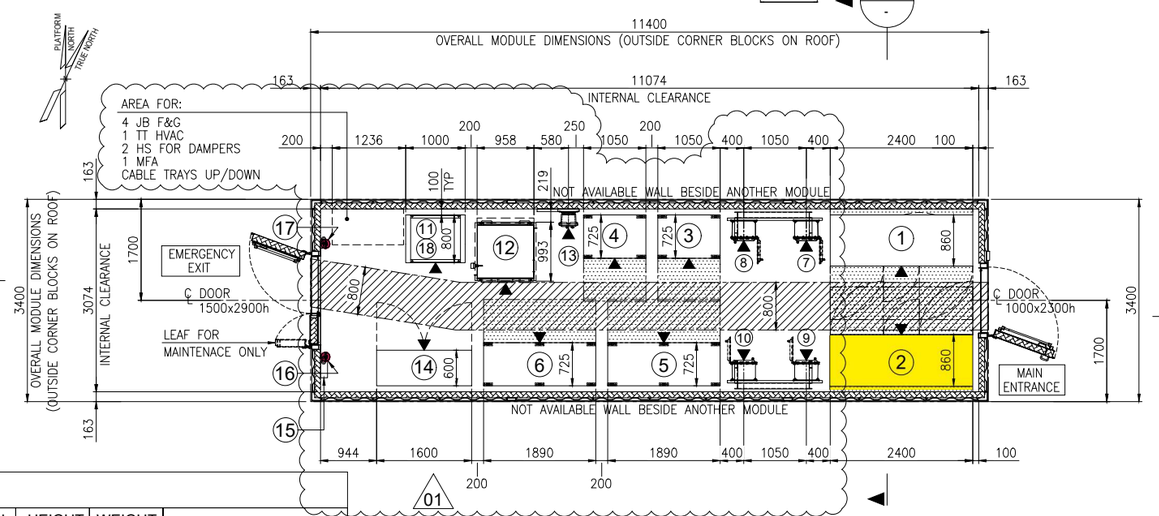
REV. 01



SECTION B



SECTION A



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

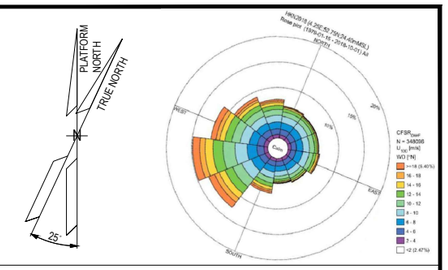
EQUIPMENT LIST

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

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

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

ROSETTI MARINO SpA



NOTES

01

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

LEGEND

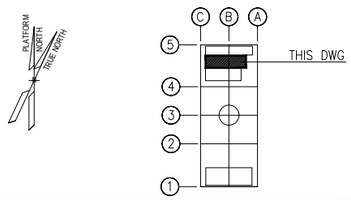
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ MAINTENANCE AREA – VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

HOLDS

REFERENCE

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

KEY PLAN



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

CROSSWIND | ROSETTI MARINO

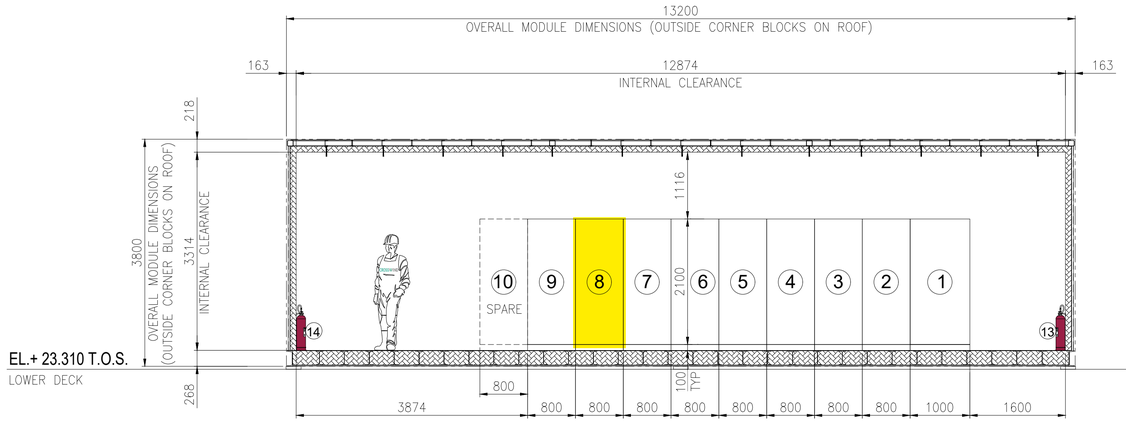
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
UPSs & BATTERIES SWITCHROOM

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

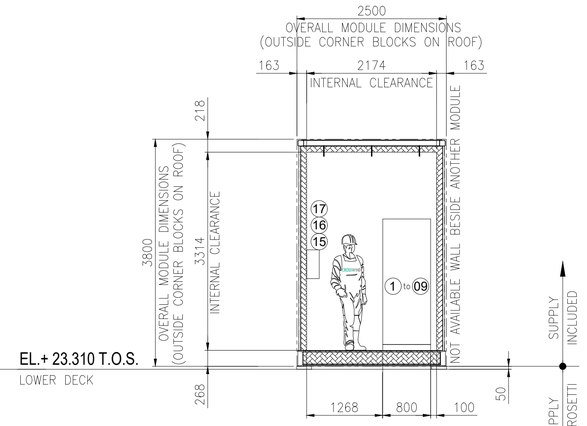
A1	DRAWING NO. 123A90-DDL-EL-DL-20106	SHEET 001	REV. 01

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

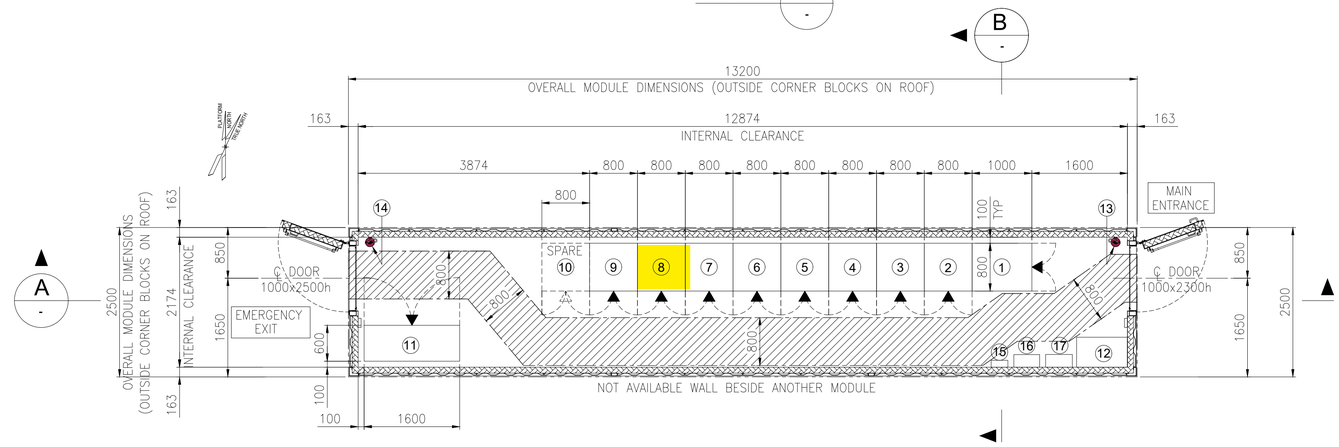
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



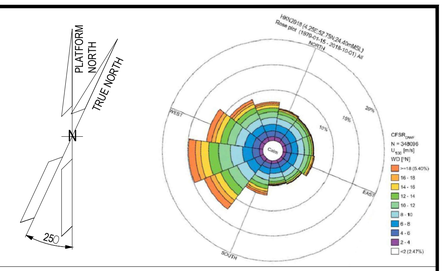
SECTION B -



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

EQUIPMENT LIST

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



NOTES

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

LEGEND

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

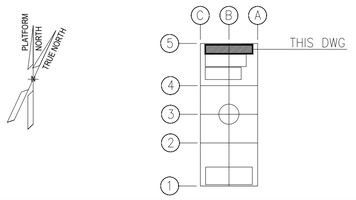
HOLDS

.

REFERENCE

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

KEY PLAN



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

CROSSWIND

ROSETTI MARINO

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

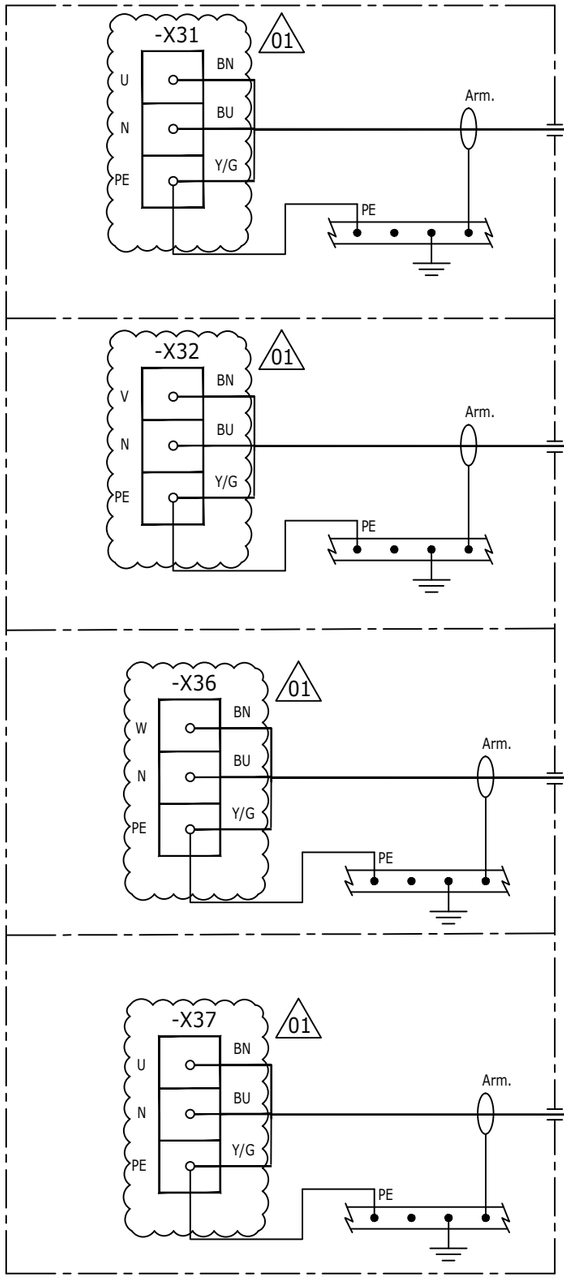
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE 1:33,3
DRAWN MGA | CHECKED LCA | APPROVED DLO | DATE 27/05/24
A1 | DRAWING NO. 123A90-DDL-IN-DL-40012 | SHEET 001 | REV. 03

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

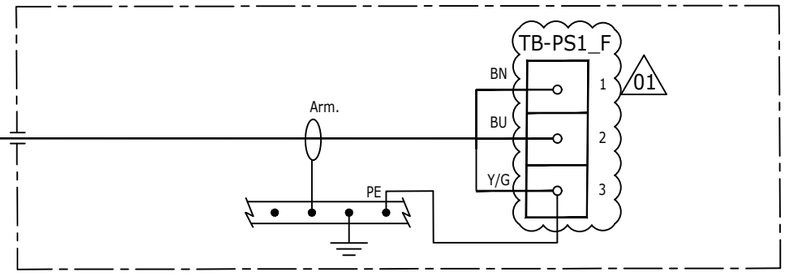
File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

FROM	TO

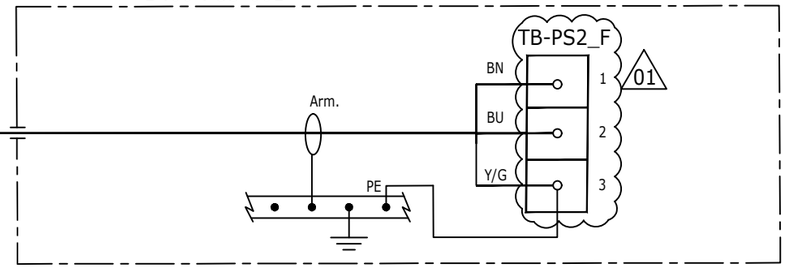
DESCRIPTION: AC UPS - F&G DB
TAG NUMBER: DP-200F4



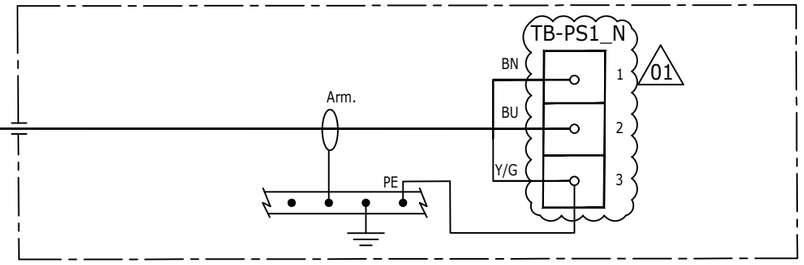
DESCRIPTION: FGS FIRE & GAS PANEL - LINE A
TAG NUMBER: B400-FGS-001



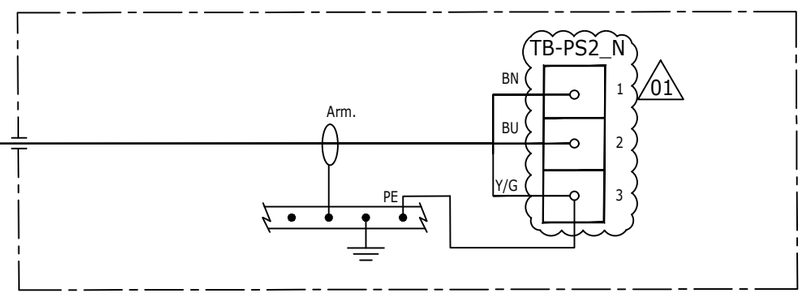
DESCRIPTION: FGS FIRE & GAS PANEL - LINE B
TAG NUMBER: B400-FGS-001



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



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



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

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

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

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

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

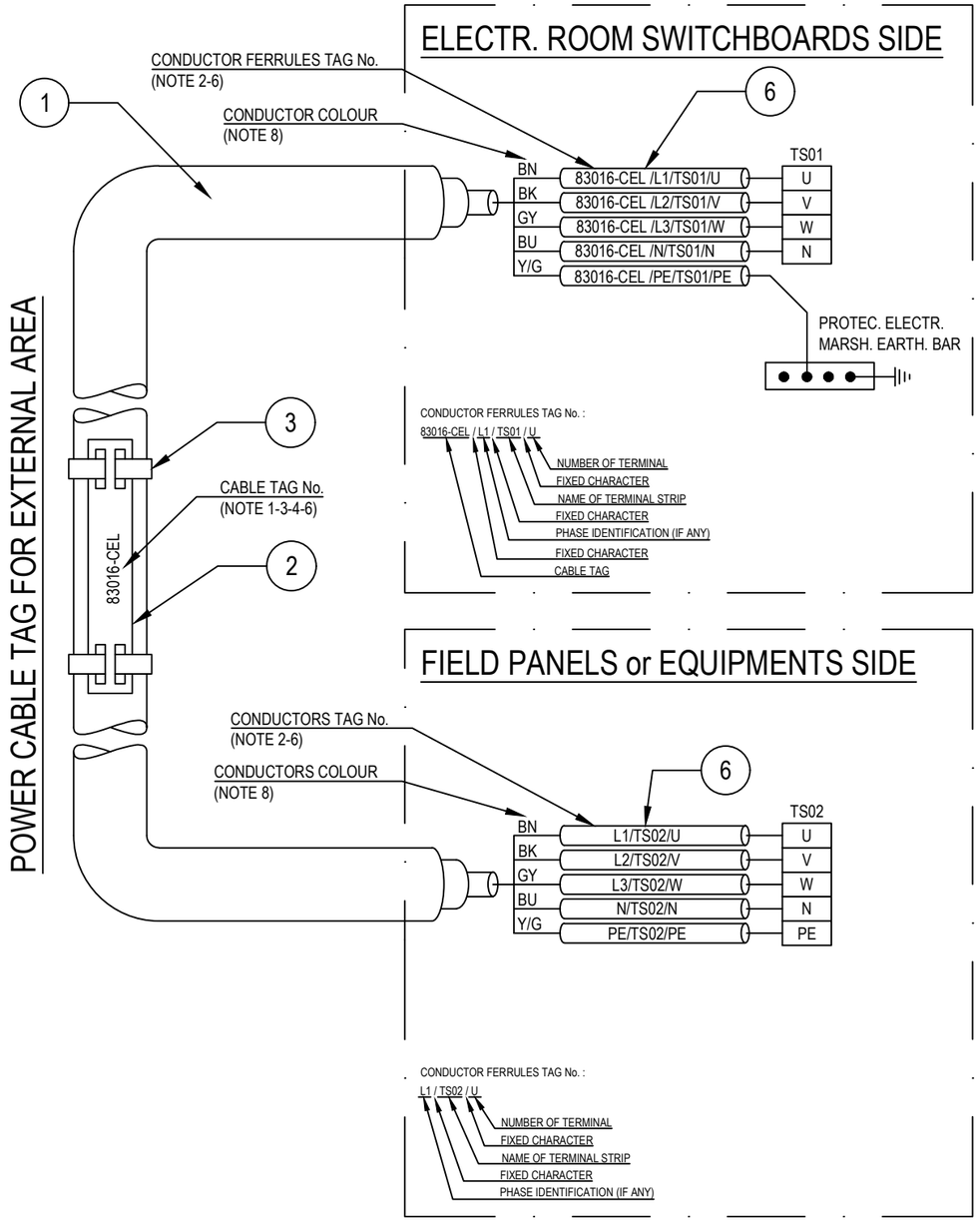
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

A3 | DRAWING NO. 123A90-DDL-EL-DG-20149 | SHEET 043 | REV. 01

F.to UNI A3: 420mmx297mm

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

C02



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

NOTES:

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

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

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

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

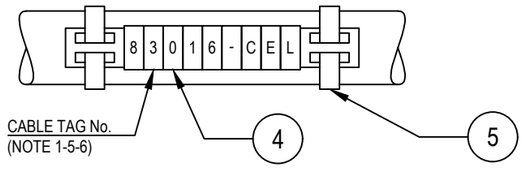
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

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

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

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092
REV.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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

CROSSWIND

ROSETTI MARINO

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

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

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

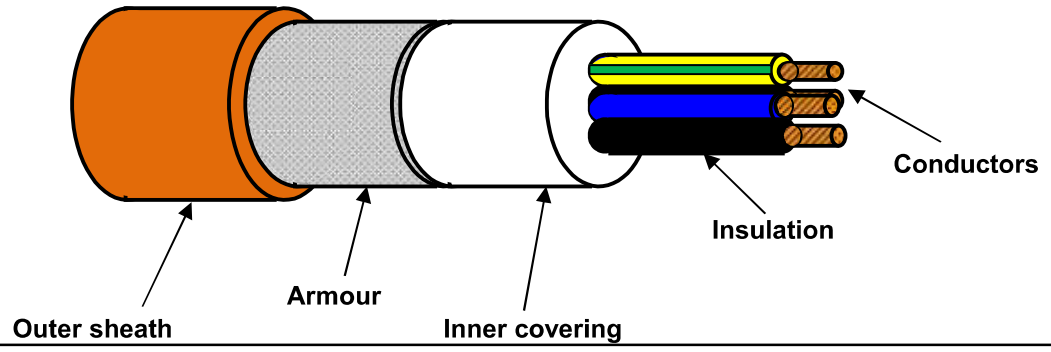
F.to UNI A3: 420mmx297mm

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

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
84401-CEL	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						DP-200F4	AC UPS 15 kVA Distribution Board	Lower Deck (B-300)	B400-FGS-001	FGS Fire & Gas Panel	Lower Deck (B-400)	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			n.a.				L-450-101-LVT-043 / L-600-101-LVT-035 / E-MCT-302 / L-450-101-LVT-005 / L-600-101-LVT-010 / L-750-101-LVT-015 / L-300-101-LVT-007 / E-MCT-402 / L-300-101-LVT-065 / L-300-101-LVT-066 / L-300-101-LVT-067 / L-150-101-LVT-152

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

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



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

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

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

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

ITEM	Tag	84402-CEL	: AC UPS - F&G DB / FGS Fire & Gas Panel - Line B			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	70-00	: F&G Control System			Module	LD_B-300/LD_B-400
TASK	code	C10000595		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH | Cores/Size mm²: 3G2.5 | Color: Orange

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

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

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	84402-CEL	: AC UPS - F&G DB / FGS Fire & Gas Panel - Line B			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	70-00	: F&G Control System			Module	LD_B-300/LD_B-400
TASK	code	C10000595		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0.4	
6		PH 2	0.4	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0.3	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0.4	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

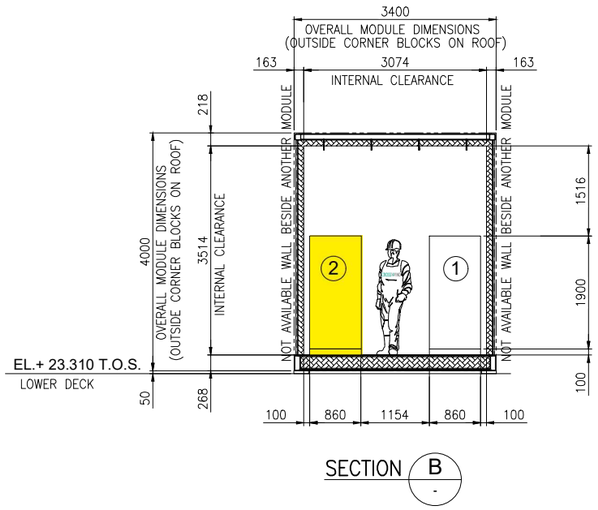
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments:

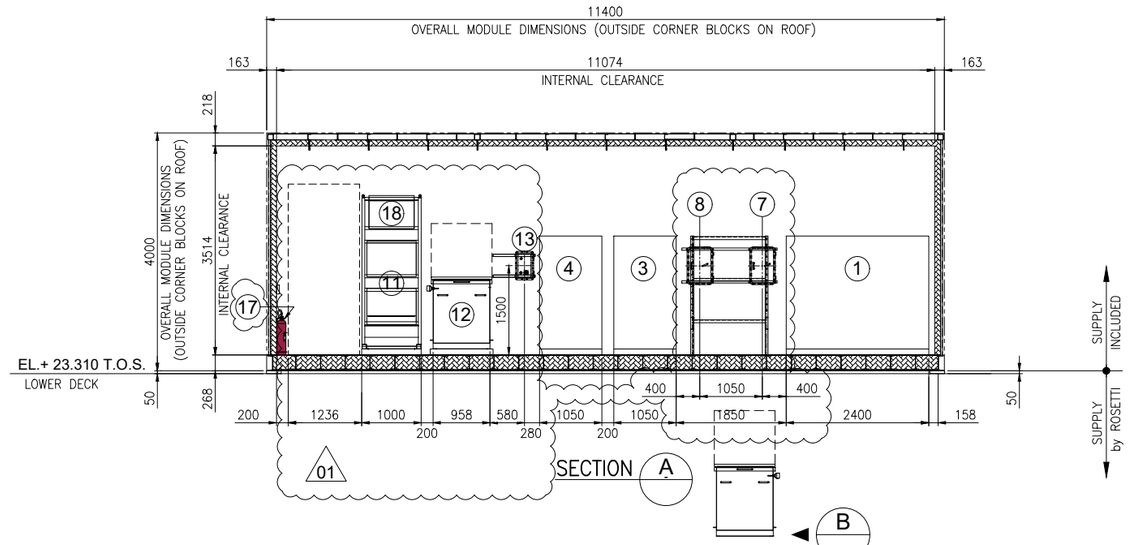
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-06	2024-11-09	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-06T17:14:52.268Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-11-09T10:29:44.306Z	

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

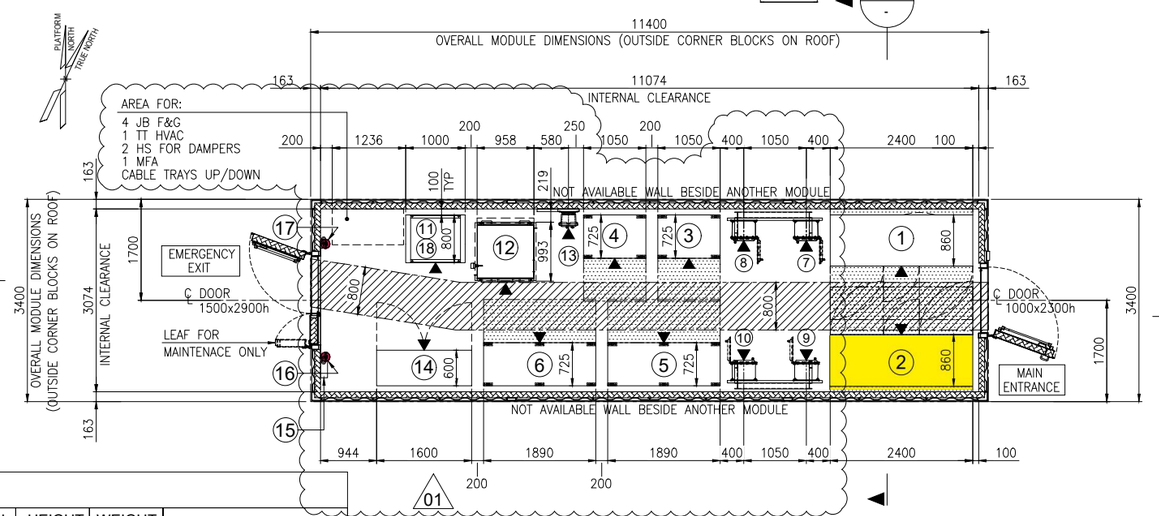
REV. 01



SECTION B



SECTION A



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

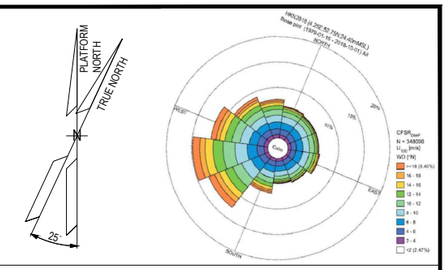
EQUIPMENT LIST

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

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

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

ROSETTI MARINO SpA



NOTES

01

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

LEGEND

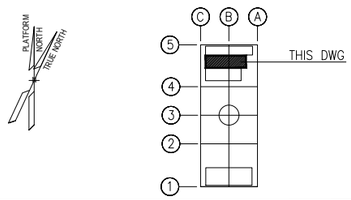
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ MAINTENANCE AREA – VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

HOLDS

REFERENCE

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

KEY PLAN



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

CROSSWIND | ROSETTI MARINO

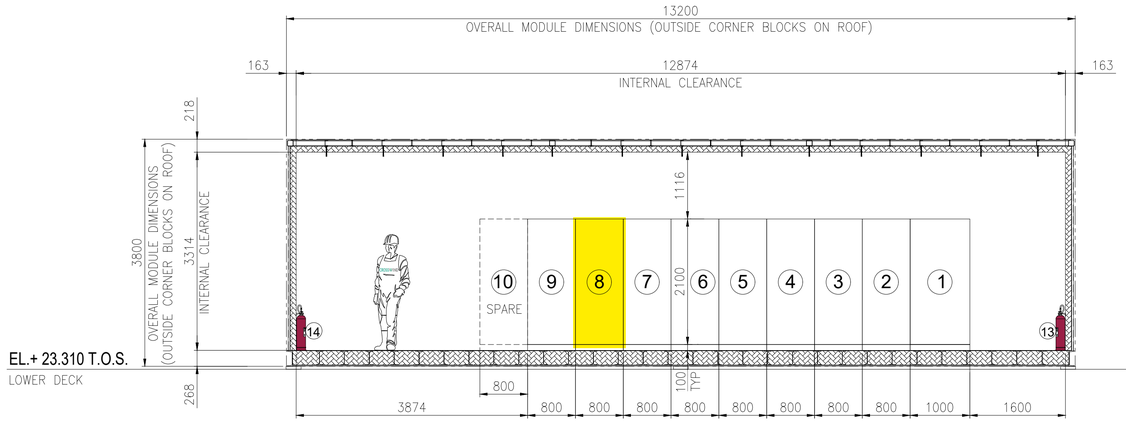
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
UPSs & BATTERIES SWITCHROOM

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

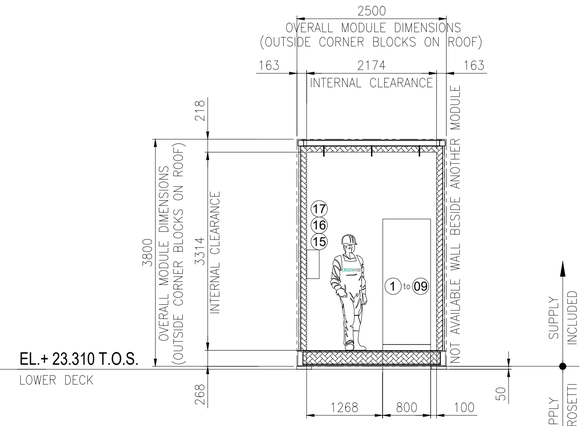
A1	DRAWING NO. 123A90-DDL-EL-DL-20106	SHEET 001	REV. 01

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

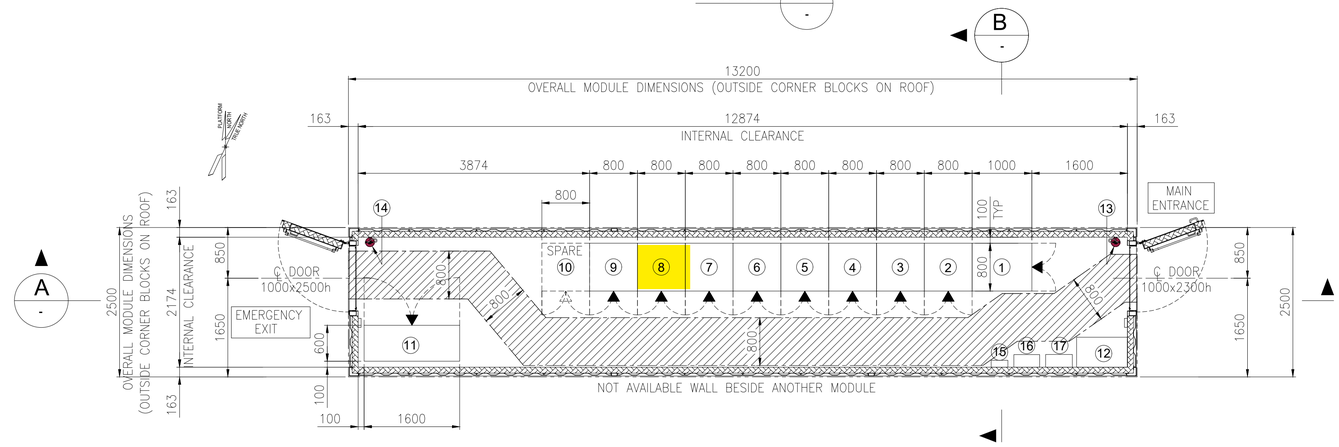
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



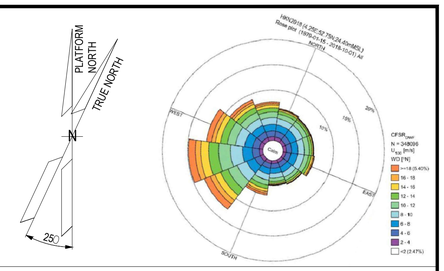
SECTION B -



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

EQUIPMENT LIST

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



NOTES

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

LEGEND

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

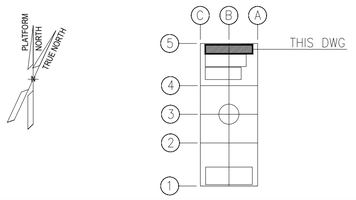
HOLDS

.

REFERENCE

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

KEY PLAN



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

CROSSWIND

ROSETTI MARINO

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

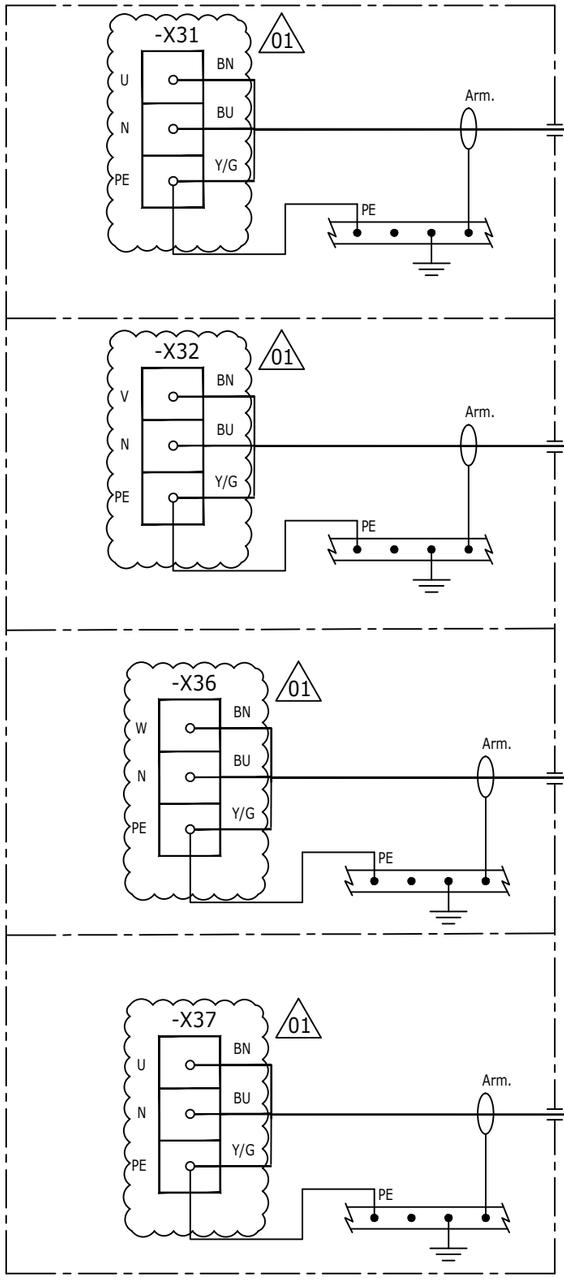
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE 1:33,3
DRAWN MGA | CHECKED LCA | APPROVED DLO | DATE 27/05/24
A1 | DRAWING NO. 123A90-DDL-IN-DL-40012 | SHEET 001 | REV. 03

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

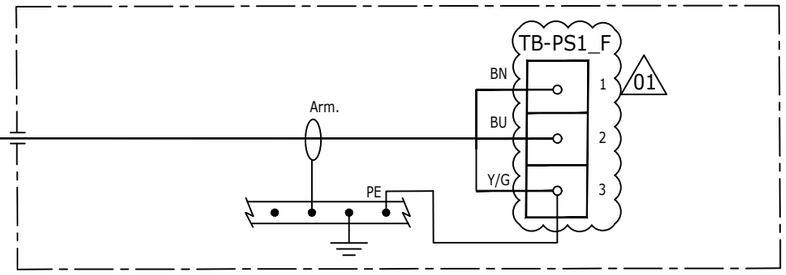
File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

FROM	TO

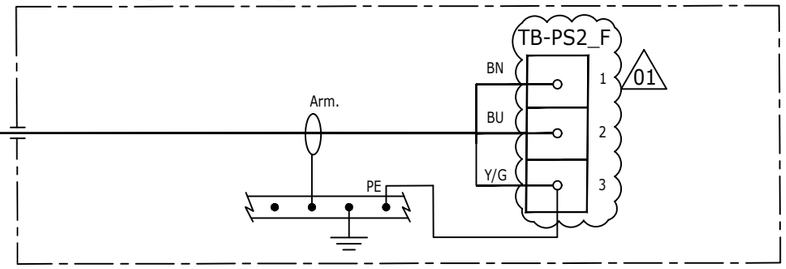
DESCRIPTION: AC UPS - F&G DB
TAG NUMBER: DP-200F4



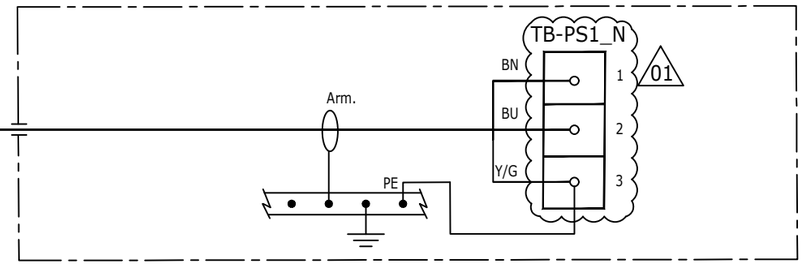
DESCRIPTION: FGS FIRE & GAS PANEL - LINE A
TAG NUMBER: B400-FGS-001



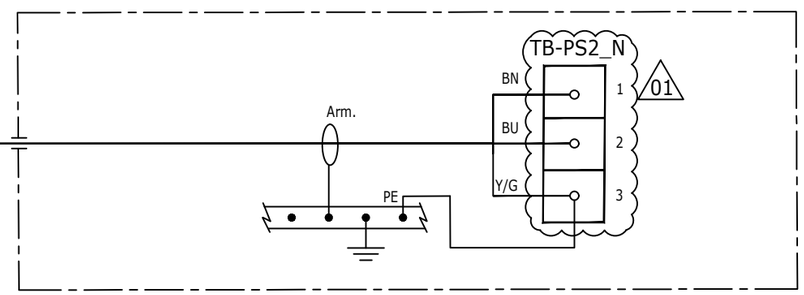
DESCRIPTION: FGS FIRE & GAS PANEL - LINE B
TAG NUMBER: B400-FGS-001



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



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



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

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

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

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

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

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

SCALE : 1:X

A3

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

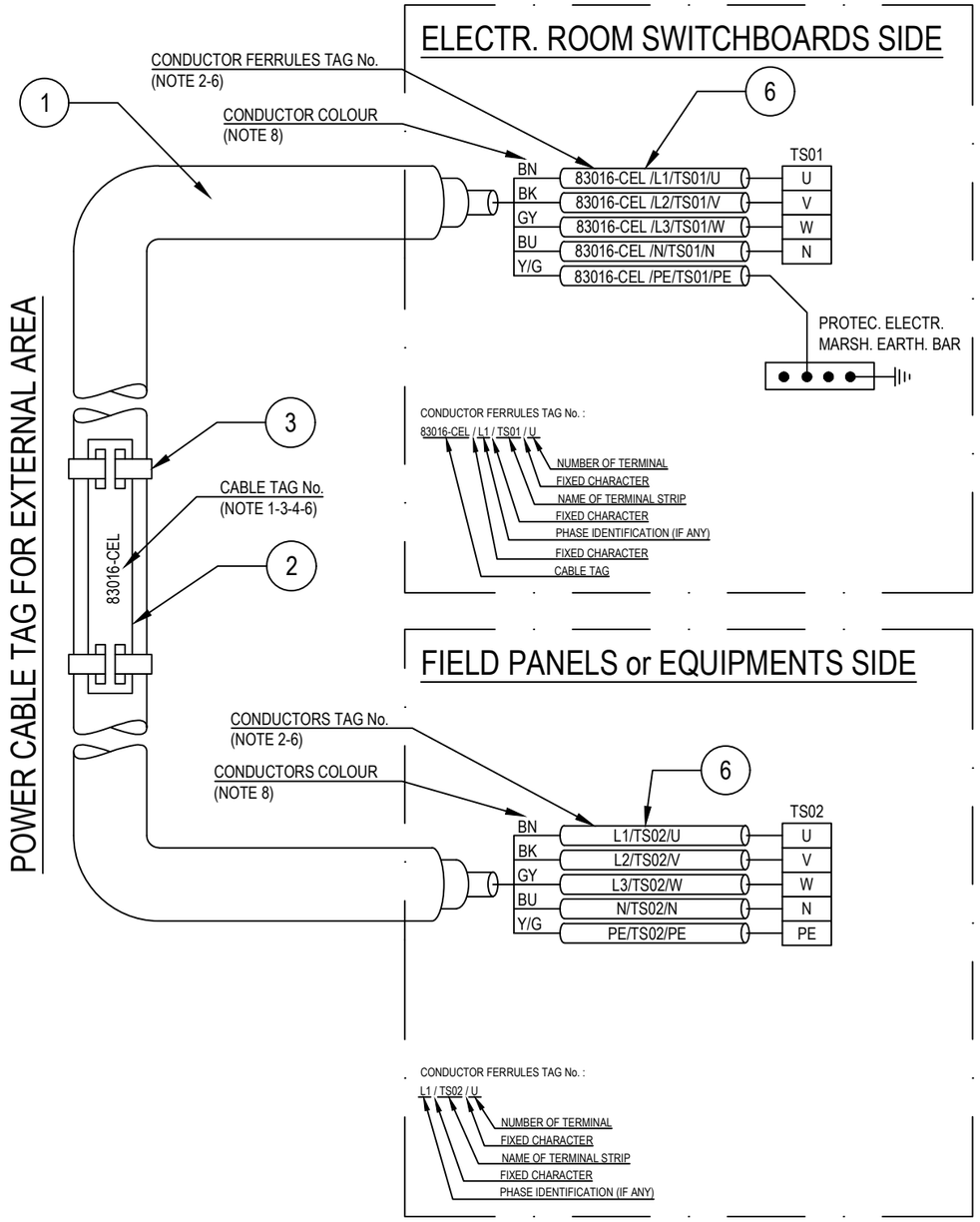
SHEET 043

REV. 01

F.to UNI A3: 420mmx297mm

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

C02



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

NOTES:

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

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

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

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

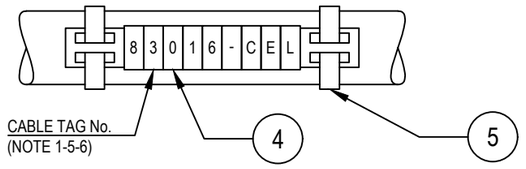
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

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

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

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092
REV.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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

CROSSWIND

ROSETTI MARINO

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

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

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

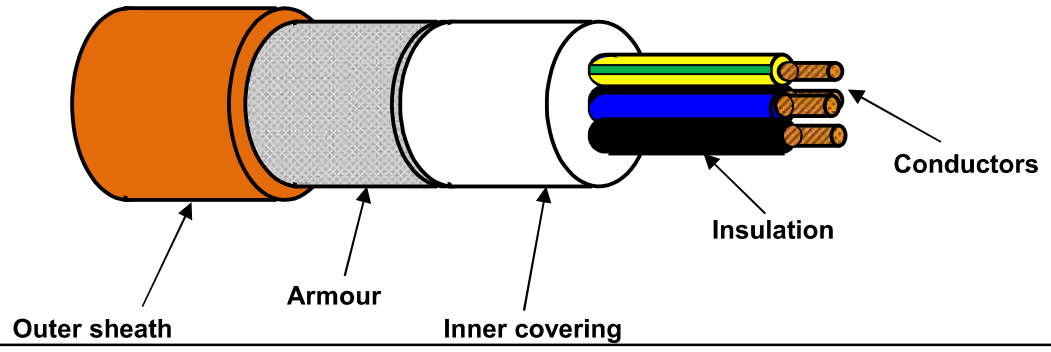
F.to UNI A3: 420mmx297mm

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

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
84402-CEL	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						DP-200F4	AC UPS 15 kVA Distribution Board	Lower Deck (B-300)	B400-FGS-001	FGS Fire & Gas Panel	Lower Deck (B-400)	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			n.a.				L-450-101-LVT-043 / L-600-101-LVT-035 / E-MCT-302 / L-450-101-LVT-005 / L-600-101-LVT-010 / L-750-101-LVT-015 / L-300-101-LVT-007 / E-MCT-402 / L-300-101-LVT-065 / L-300-101-LVT-066 / L-300-101-LVT-067 / L-150-101-LVT-152

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

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



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

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

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

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

ITEM	Tag	83107-CEL	: Lighting & Small Power DB BoP / FGS Fire & Gas Panel - Auxiliary		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	70-00	: F&G Control System		Module	LD_B-200/LD_B-400	
TASK	code	C10000626	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 3G2.5 Color Grey

From DP-200N1 To B400-FGS-001

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

REFER TO FINAL SHEET FOR ACCEPTANCE

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	83107-CEL	: Lighting & Small Power DB BoP / FGS Fire & Gas Panel - Auxiliary			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	70-00	: F&G Control System			Module	LD_B-200/LD_B-400
TASK	code	C10000626		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

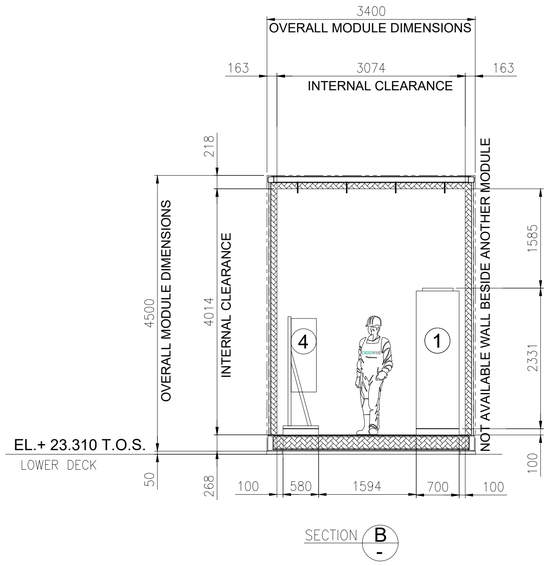
CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,5	
6		PH 2	0,4	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,4	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1999	
11		PH2 / PH1-PH3-A-E	>1999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

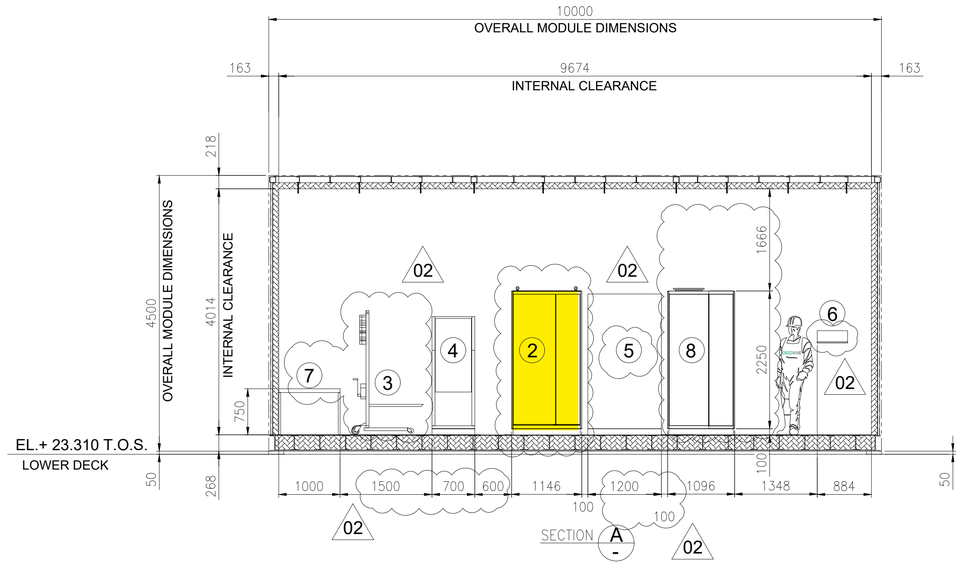
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

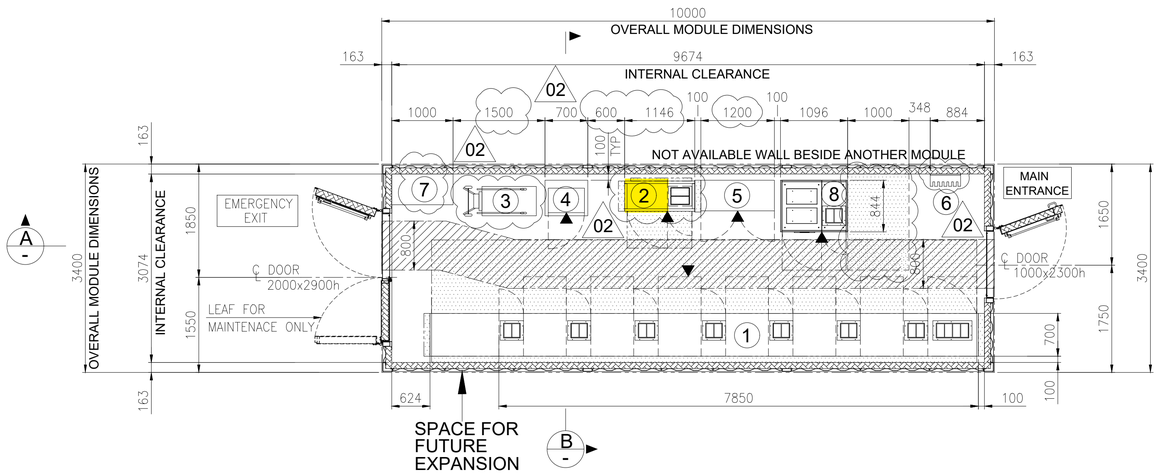
Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-06	2024-11-09	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-06T17:17:49.500Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-11-09T10:06:02.884Z	

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





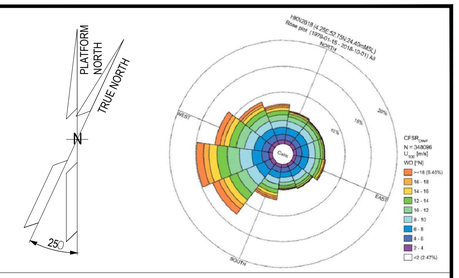


EQUIPMENT LAYOUT
"B-200" LV (400V) SWITCHGEAR ROOM
BOTTOM PLAN

1

EQUIPMENT LIST

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



NOTES

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

02

LEGEND

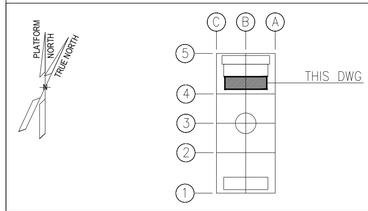
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

REFERENCES

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

02

KEY PLAN



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

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

ROSETTI MARINO SpA

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

CROSSWIND

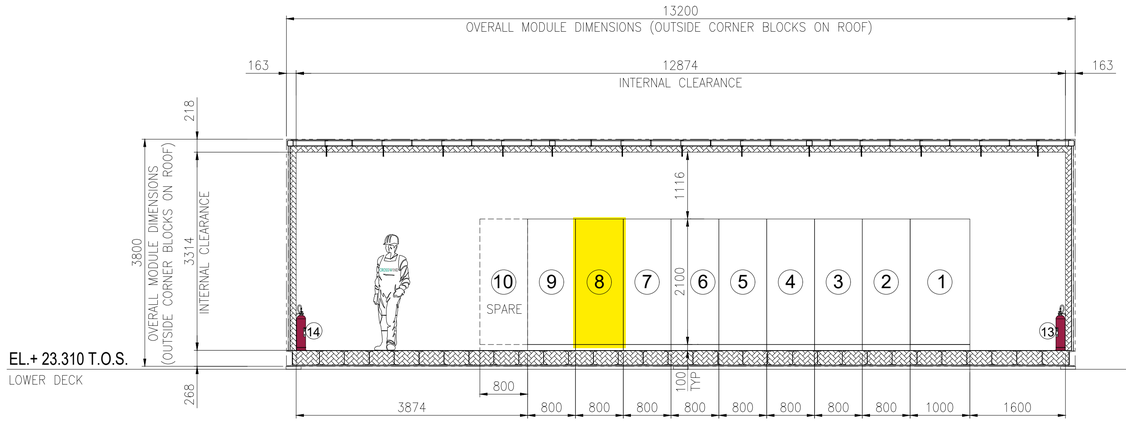
ROSETTI MARINO

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

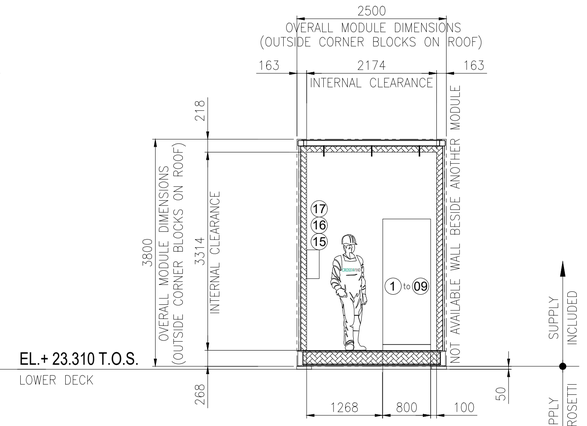
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN FMO	CHECKED LMA/AMA	APPROVED LMA/MDO	DATE 27/05/2024
A1	DRAWING NO. 123A90-DDL-EL-DL-20105	SHEET 001	REV. 02

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

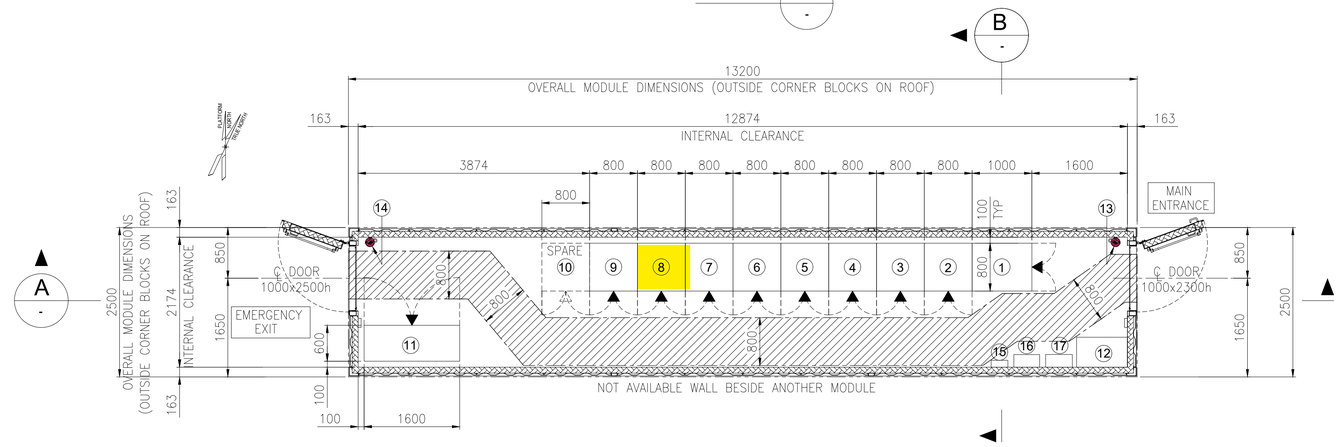
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



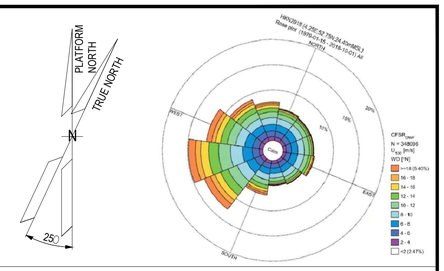
SECTION B -



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

EQUIPMENT LIST

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



NOTES

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

LEGEND

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

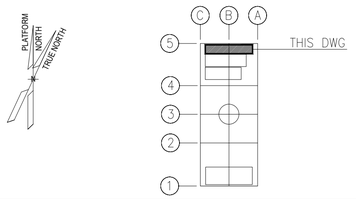
HOLDS

.

REFERENCE

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

KEY PLAN



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

CROSSWIND

ROSETTI MARINO

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

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

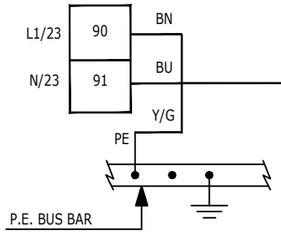
VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**
REV.: 3_A | DATE: 07/10/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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

FROM	TO

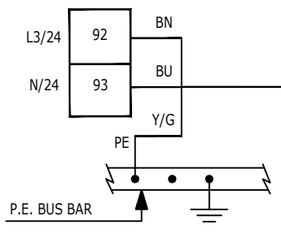
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +03/Q23



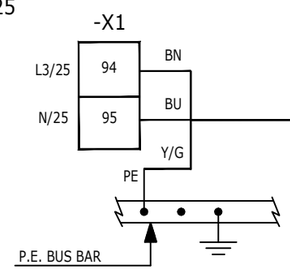
83104-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q24



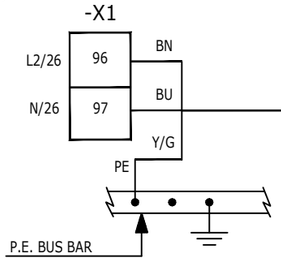
83105-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q25



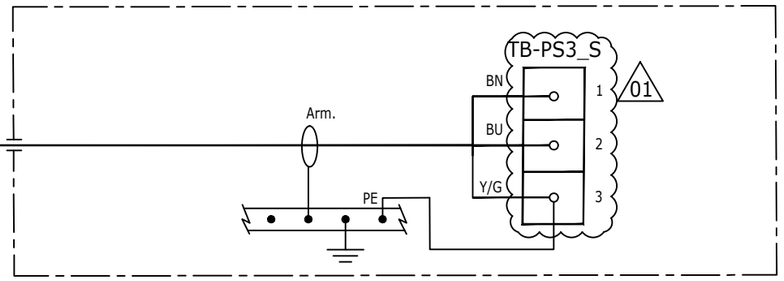
83106-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q26

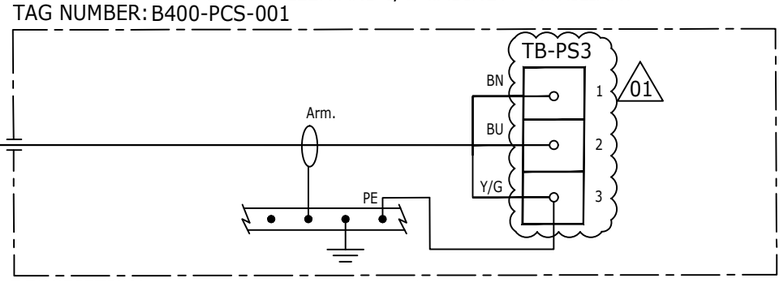


83107-CEL
3G2.5 mm²

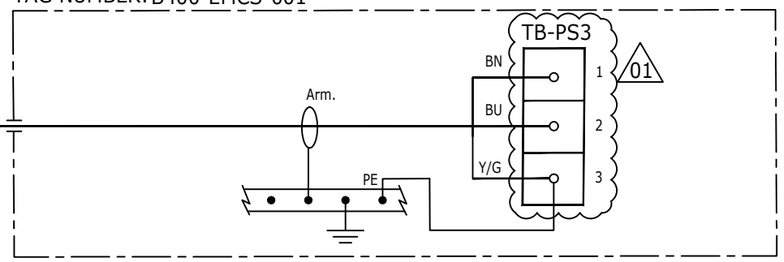
DESCRIPTION: SIS -CONTROLLER AND I/O CABINET - AUXILIARY
TAG NUMBER: B400-SIS-001



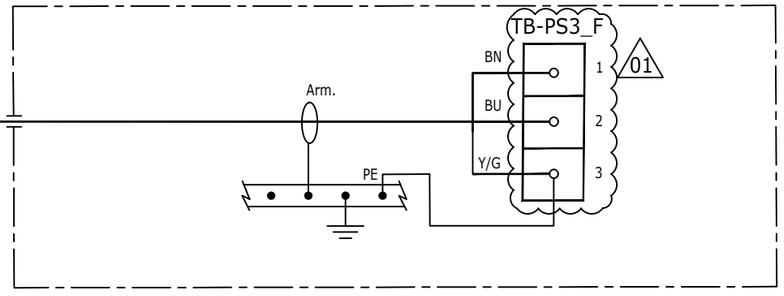
DESCRIPTION: PCS -CONTROLLER AND I/O CABINET - AUXILIARY
TAG NUMBER: B400-PCS-001



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



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



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

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

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

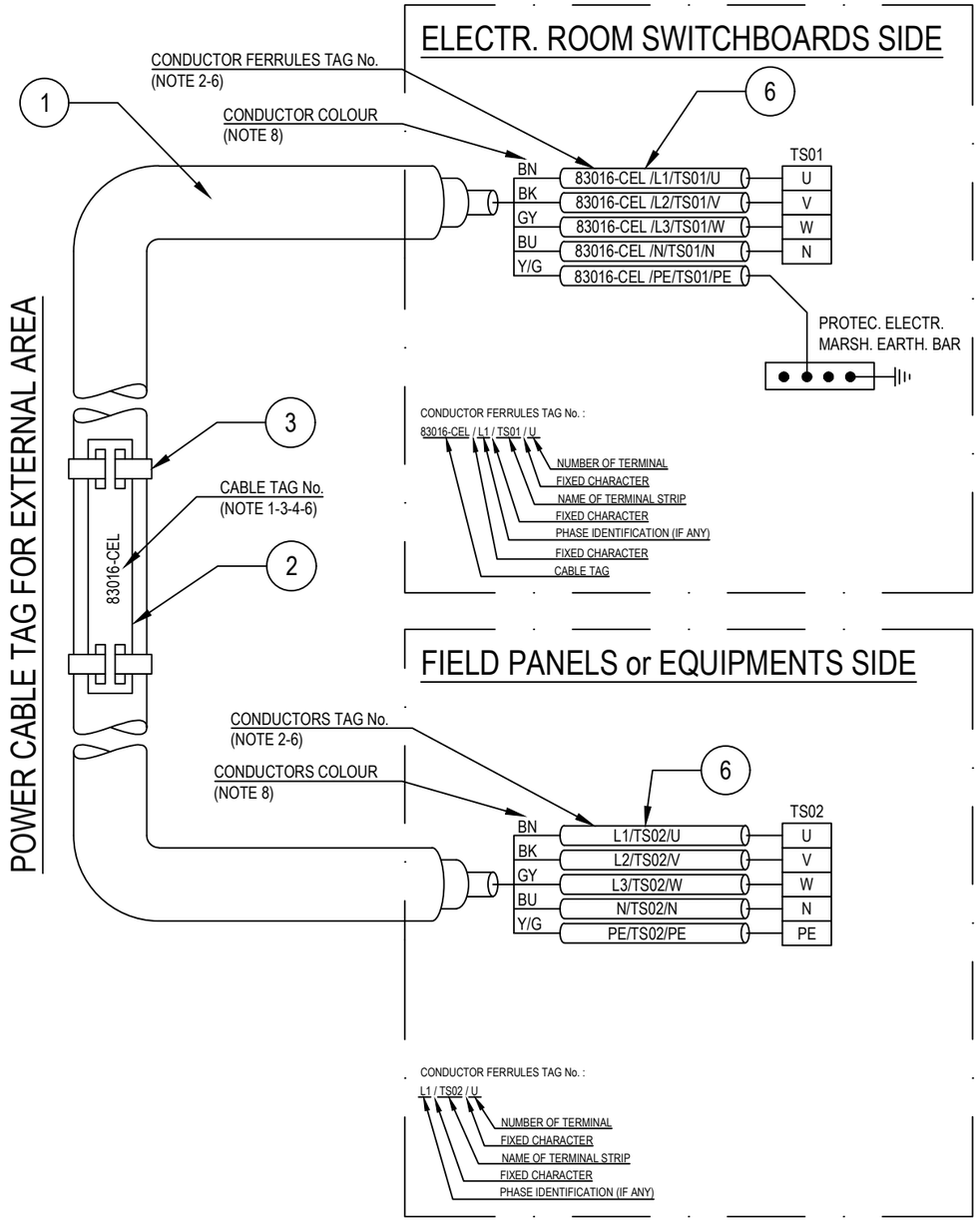
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

A3 | DRAWING NO. 123A90-DDL-EL-DG-20149 | SHEET 052 | REV. 01

F.to UNI A3: 420mmx297mm

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

C02



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

NOTES:

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

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

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

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

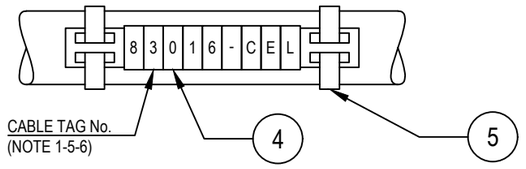
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

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

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

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092
REV.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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

CROSSWIND

ROSETTI MARINO

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

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

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

F.to UNI A3: 420mmx297mm

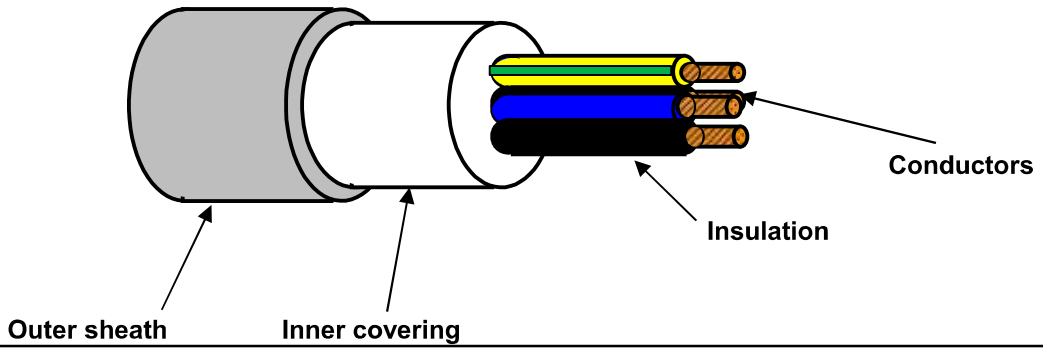
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
83107-CEL	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						DP-200N1	LV 0,4 / 0,23 kV Distribution Switchgear	Lower Deck (B-200)	B400-FGS-001	FGS Fire & Gas Panel	Lower Deck (B-400)	ELECV06-3G2,5	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 3G2,5mm² - Grey	M20	n.a.			n.a.				L-450-101-LVT-030 / L-600-101-LVT-020 / L-600-101-LVT-018 / L-600-101-LVT-017 / E-MCT-201 / L-750-101-LVT-011 / L-450-101-LVT-008 / L-300-101-LVT-009 / E-MCT-401 / L-300-101-LVT-065 / L-300-101-LVT-066 / L-300-101-LVT-067 / L-150-101-LVT-152

FLEI s.r.l.

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

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



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	Not required	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 -**	
	Year of Manufacture - CE + Meter Marking	
Outer diameter :	(13,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

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

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

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

Section 6 MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 70-00 & process: MC & discipline : I

Instrumental	70-00 F&G Control System						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
B400-FGS-001	FGS System Cabinet	ONSHORE	C10000873	CJX48	100	2024-11-20	RFC 1
B400-FGS-002	FGS Marshalling Cabinet 1	ONSHORE	C10000839	CJX48	100	2024-11-22	RFC 1
B400-FGS-003	FGS Marshalling Cabinet 2	ONSHORE	C10000874	CJX48	100	2024-11-29	RFC 1

ITEM	Tag	B400-FGS-002	: FGS Marshalling Cabinet 1		Dwg	123A90-DDL-IN-DL-40012	
	S/Sys	70-00	: F&G Control System		Module	LD_B-400	
TASK	code	C10000839		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Instrumental Form CJX48		Indoor Cabinet/Panel

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

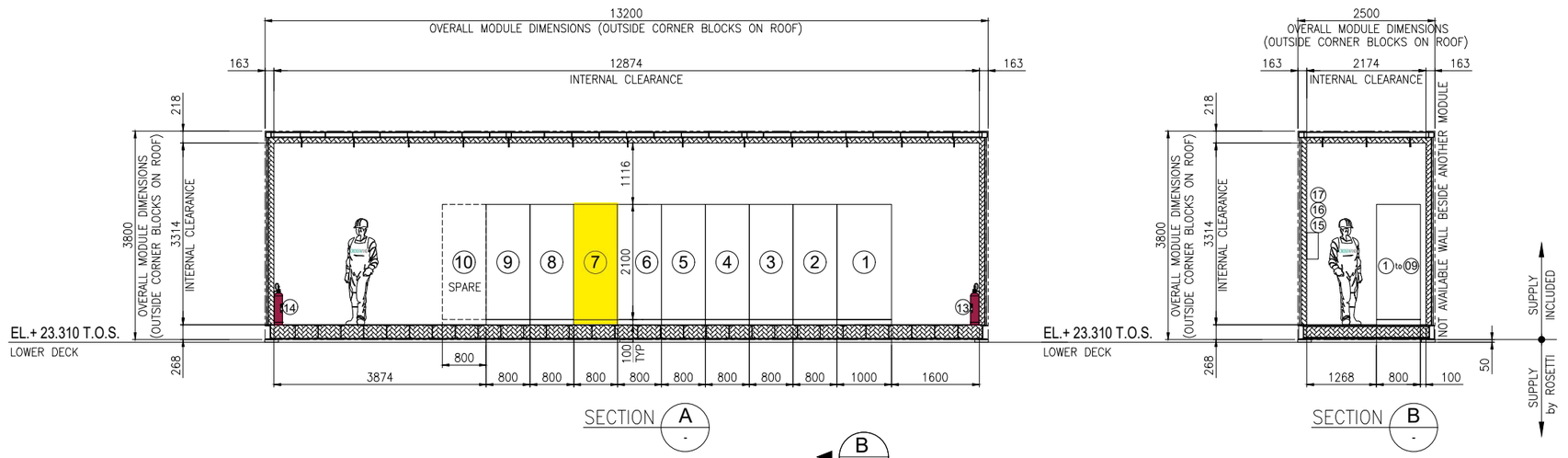
Comments: Note refer to punch list raised during FAT

Note 6 : C30000222/C30000225/C30000375/C30000378/C30000384.

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-06	2024-11-22	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-06T17:18:37.434Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-11-22T14:47:11.517Z	

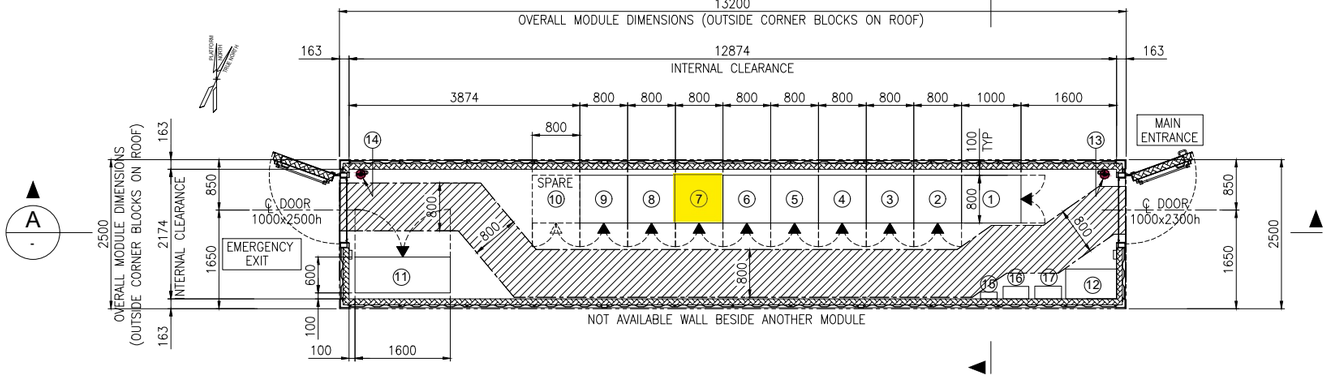
DRAWING NO. 123A90-DDL-IN-DL-40012

REV. 03



SECTION A -

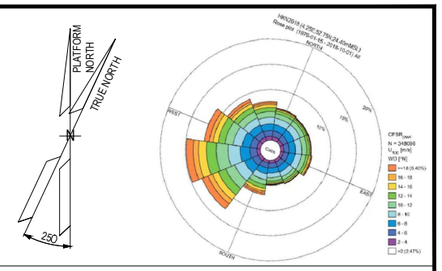
SECTION B -



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

EQUIPMENT LIST

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



NOTES

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

LEGEND

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

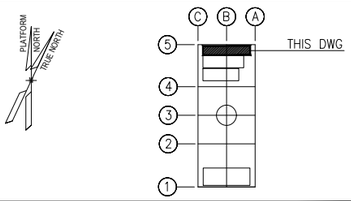
HOLDS

.

REFERENCE

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

KEY PLAN



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

CROSSWIND

ROSETTI MARINO

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

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

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

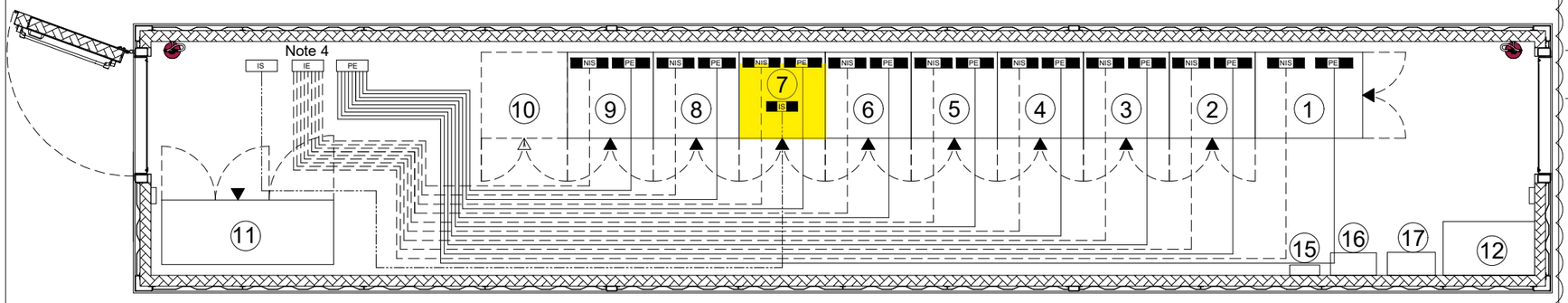
File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

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

NOTES

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

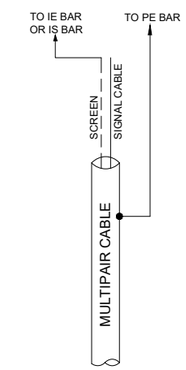
01



LEGEND

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

KEY



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

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

ROSETTI MARINO SpA

01

CROSSWIND

ROSETTI MARINO

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

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

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

A3 | DRAWING NO. 123A90-DDL-IN-DL-40013 | SHEET 003 | REV. 01

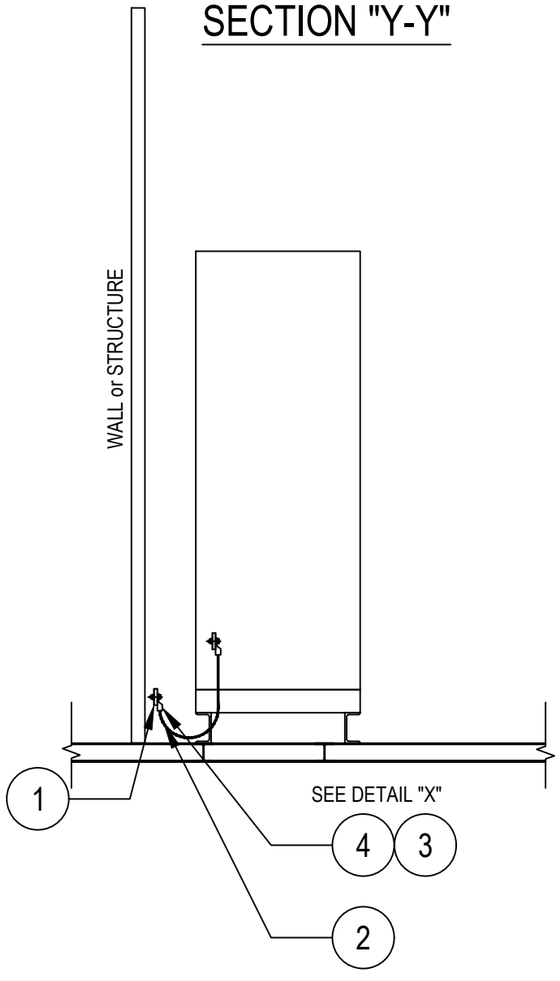
F.to UNI A3: 420mmx297mm

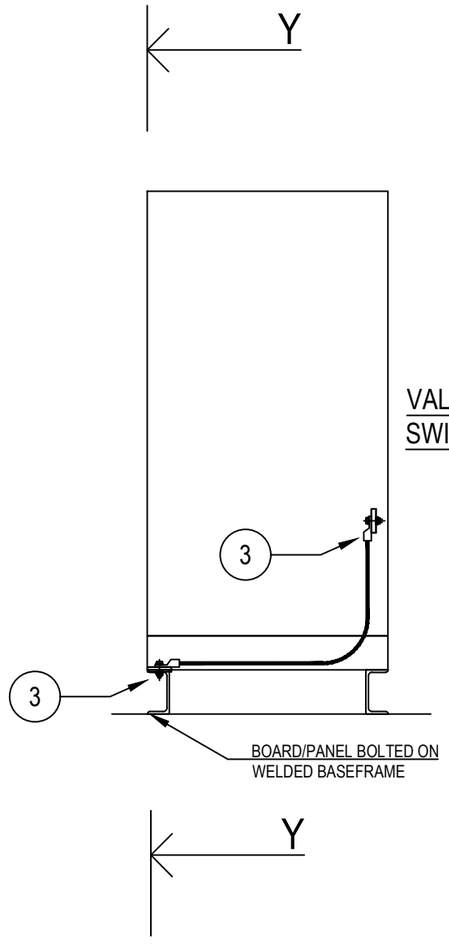
File Name : 123A90-DDL-IN-DL-430013 Rev. 01

E23

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

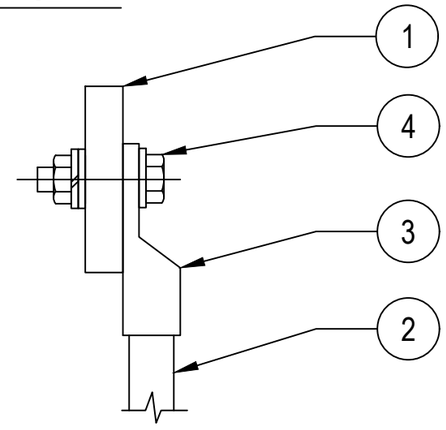
SECTION "Y-Y"





VALID FOR HV/LV SWITCHGEAR

DETAIL "X"



NOTES:

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

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR PANELS/BOARDS IN TECHNICAL ROOM

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

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

F.to UNI A3: 420mmx297mm

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

A - GENERAL DATA

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

B - MECHANICAL DATA

B1	OVERALL DIMENSION	SIS 800 mm x 800 mm x 2100 mm (L x D x H) (NOTE B1) FGS 2400 mm x 800 mm x 2100mm (L x D x H) <1>		
B2	PROTECTION DEGREE	■ IP 43	☐ IP 55	
B3	STEEL THICKNESS	■ STRUCTURE: 1.5 mm	■ DOORS: 2 mm	
B4	CABLE ENTRY	■ TOP	☐ BOTTOM	
B5	CABLE ENTRY FIXING	☐ REMOVABLE PLATES	☐ CLAMPS	■ MCT <1>
B6	ACCESSIBILITY	■ FRONT ONLY	☐ FRONT / REAR	
B7	LIFTING SYSTEM	■ EYE BOLTS	☐ LIFTING BAR "L" TYPE	
B8	BASE PLINTH	■ SEPARATE PIECES		
B9	DOOR LOCKS	■ KEY LOCKED WITH UNIQUE KEY PER UCP		
B10	APPROXIMATIVE WEIGHT	SIS 250Kg <1> FGS 800 Kg		

NOTE B1 :ALLOWED TOLERANCE FOR PANEL HEIGHT/DEPTH: +/-5mm;
ALLOWED TOLERANCE FOR PANEL STRUCTURES AND SUPPORTS: +/-2mm;
ALLOWED TOLERANCE FOR TOTAL PANEL LENGTH : +/-2% OF TOTAL PANEL LENGTH;
(IN ANY CASE, MAXIMUM LENGTH TOLERANCE ALLOWED FOR PANEL WITH 2 OR MORE COLUMNS IS +/-50mm)
REMOVABLE BOTTOM PLATES SHALL BE PROVIDED
<1>

C - PAINTING

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

D - ELECTRICAL DATA

.	SUPPLY LINE	UPS LINE 1	UPS LINE 2	NON-UPS LINE 3
D1	SUPPLY VOLTAGE	230Vac	230Vac	230Vac
D2	FREQUENCY	50Hz	50Hz	50Hz
D3	LOAD	1,2Kw <1>	1,2Kw <1>	0,6Kw <1>
D4	INTERNAL LIGHTING WITH DOOR LIMIT SWITCH OPERATION	■ LED (230Vac - 50Hz)<1>		
D5	ANTI CONDENSING HEATER WITH TEMPERATURE THERMOSTAT	■ YES		
D6	VENTILATION FAN WITH FLOW SWITCH AND TEMPERATURE THERMOSTAT	■ YES		
D7	SERVICE SOCKET	■ YES		

E - NAMEPLATES

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

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

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
DATA SHEET

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DA-00010
SHEET 003
REV. 1

A - PANEL CONTROL CABLES

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

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

C-GROUNDING CONNECTIONS

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

B -PANEL SINGLE-CORE CABLES

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

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
INTERNAL WIRING INFORMATION

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00010

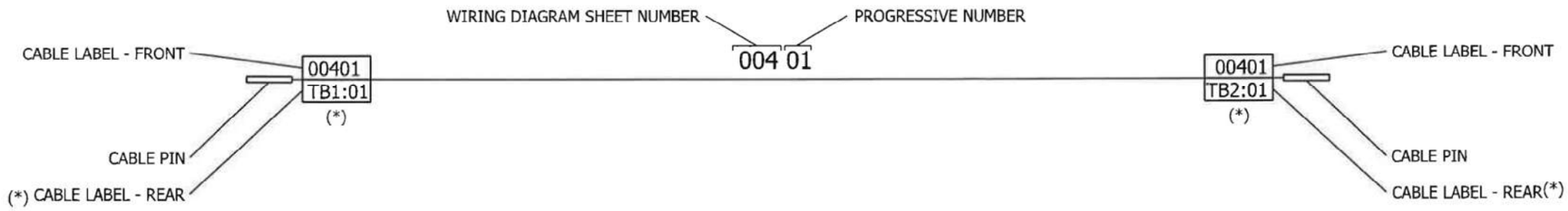
SHEET 004

REV. 1

COLOR ACRONYMS LIST :

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

TYPICAL WIRE MARKING



EARTH CONNECTION RESUME TABLE:

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

EARTH ACRONYMS LEGEND :

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

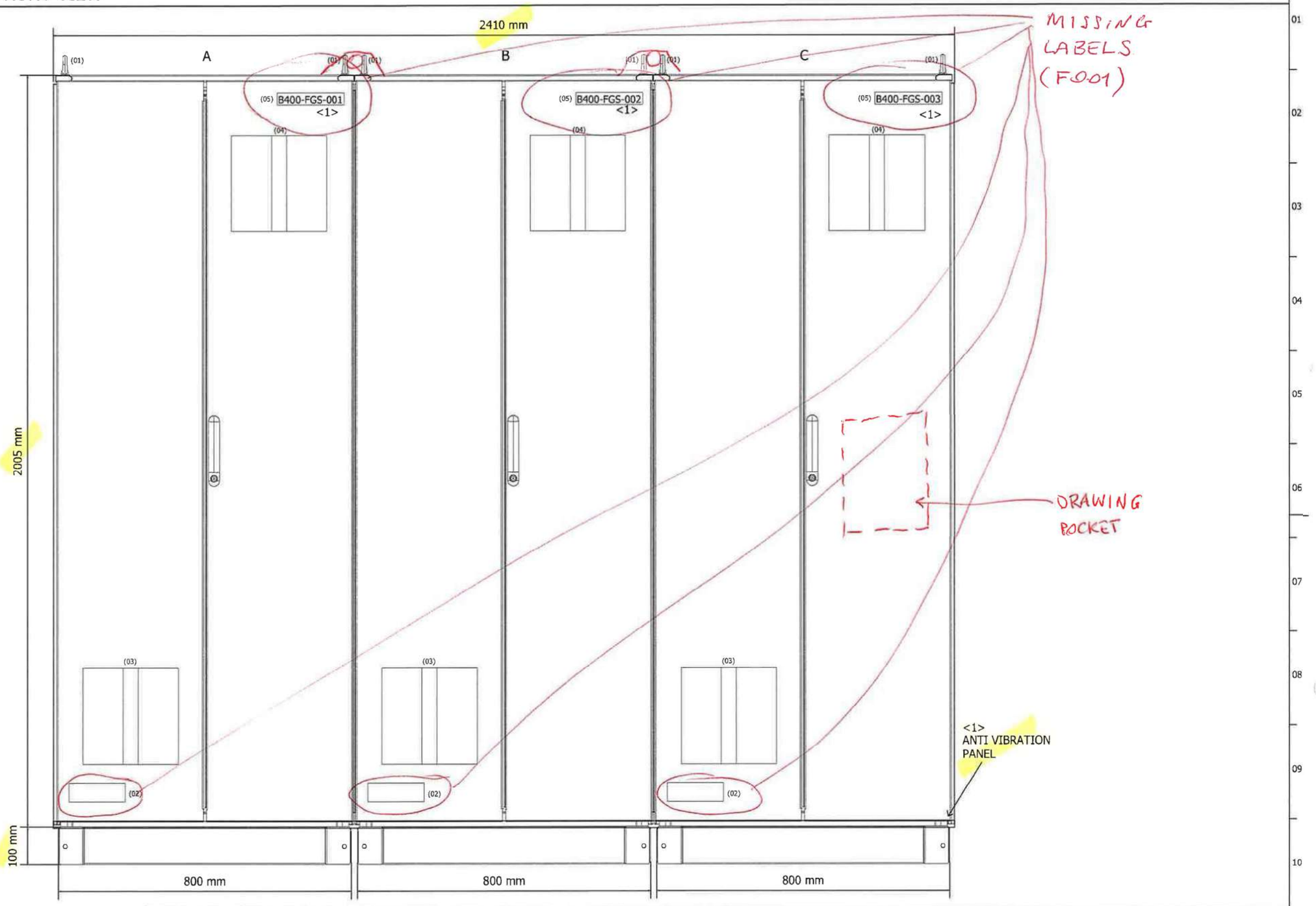
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

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

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DA-00010
SHEET 005
REV. 1

FGS PANEL - EXTERNAL FRONT VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL FRONT VIEW

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

SCALE : 1

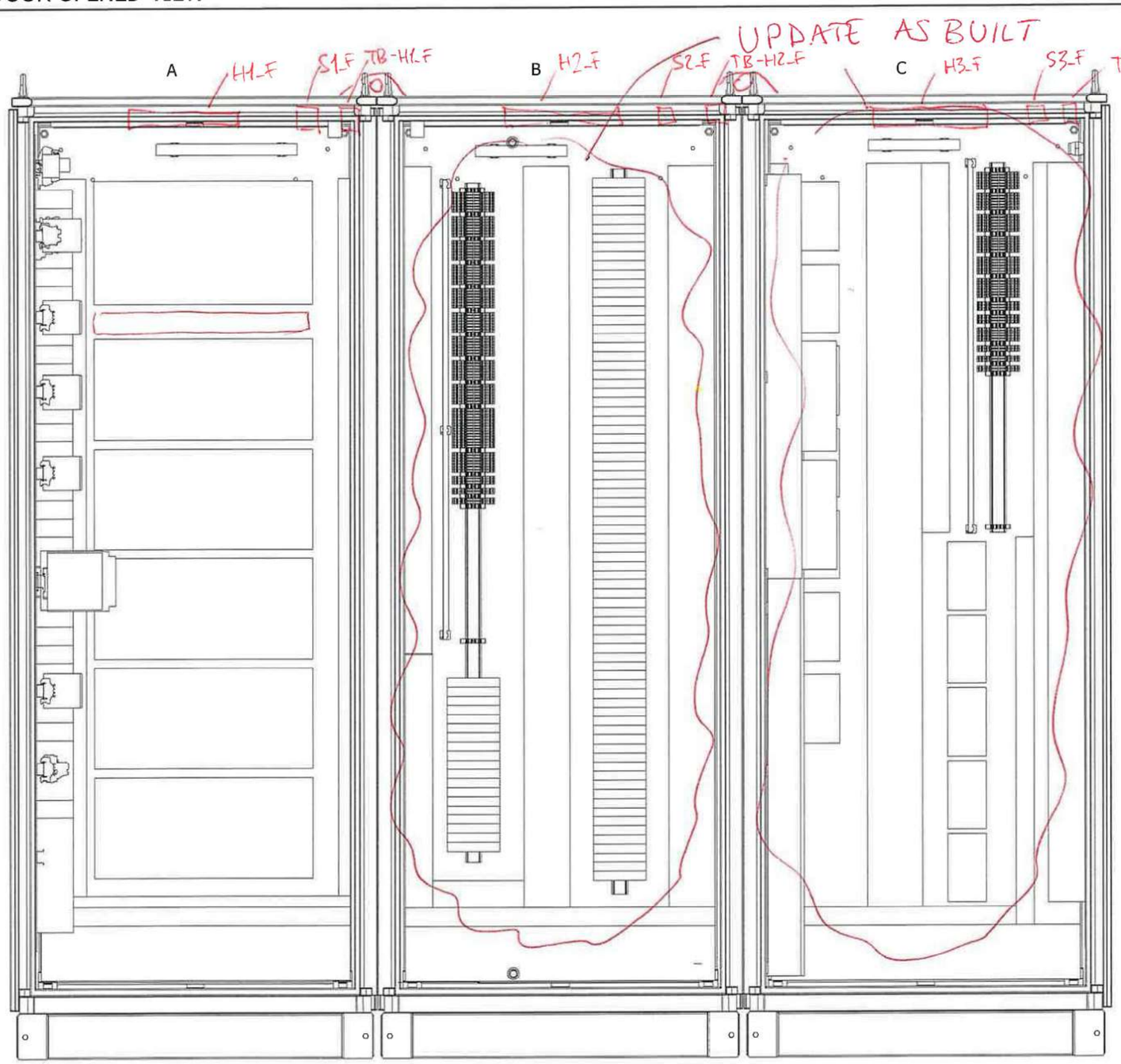
A3

DRAWING NO. 1724000594-IN-DA-00010

SHEET 006

REV. 1

FGS PANEL - EXTERNAL FRONT DOOR OPENED VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL FRONT DOOR OPENED VIEW

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

SCALE : 1

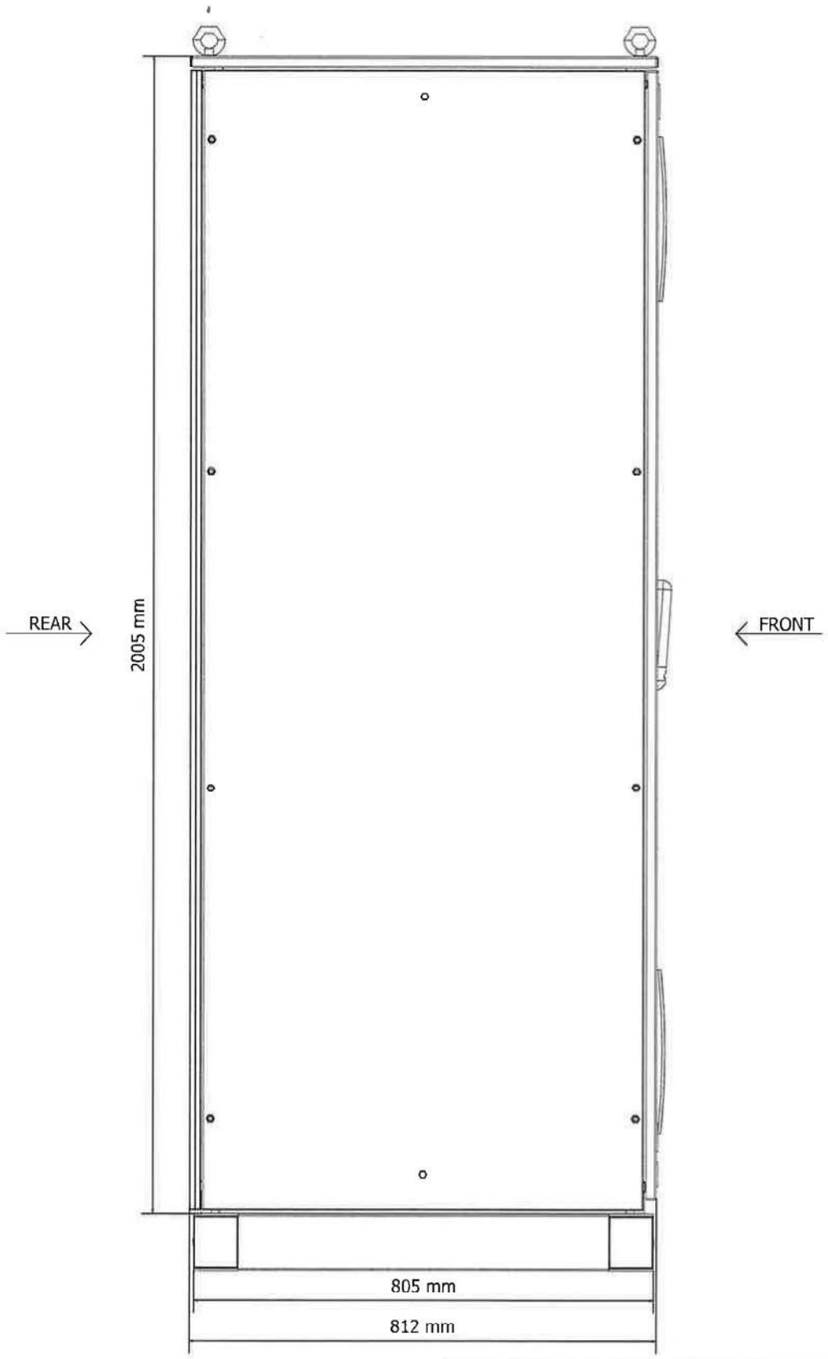
A3

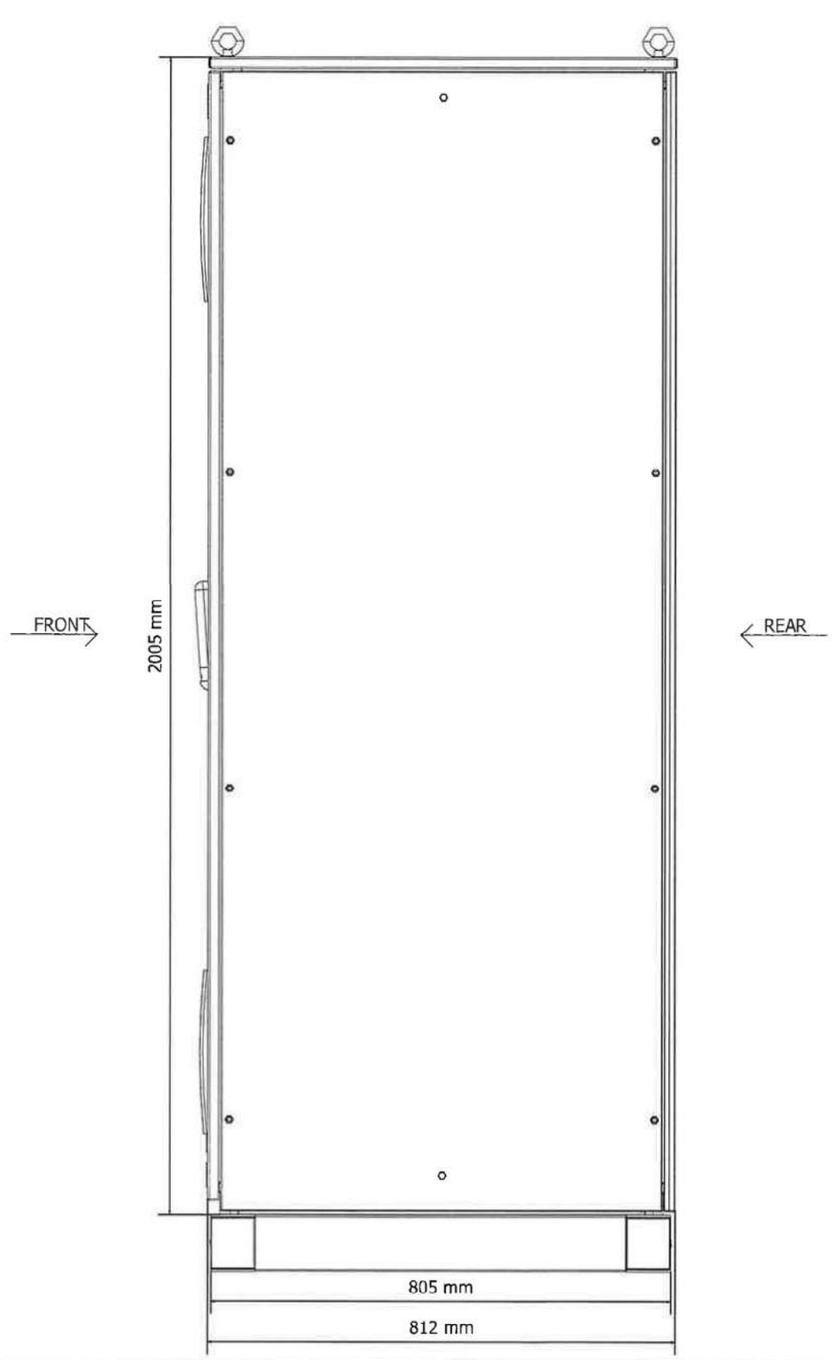
DRAWING NO.
1724000594-IN-DA-00010

SHEET 007

REV. 1

FGS PANEL - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW





DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW

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

SCALE : 1

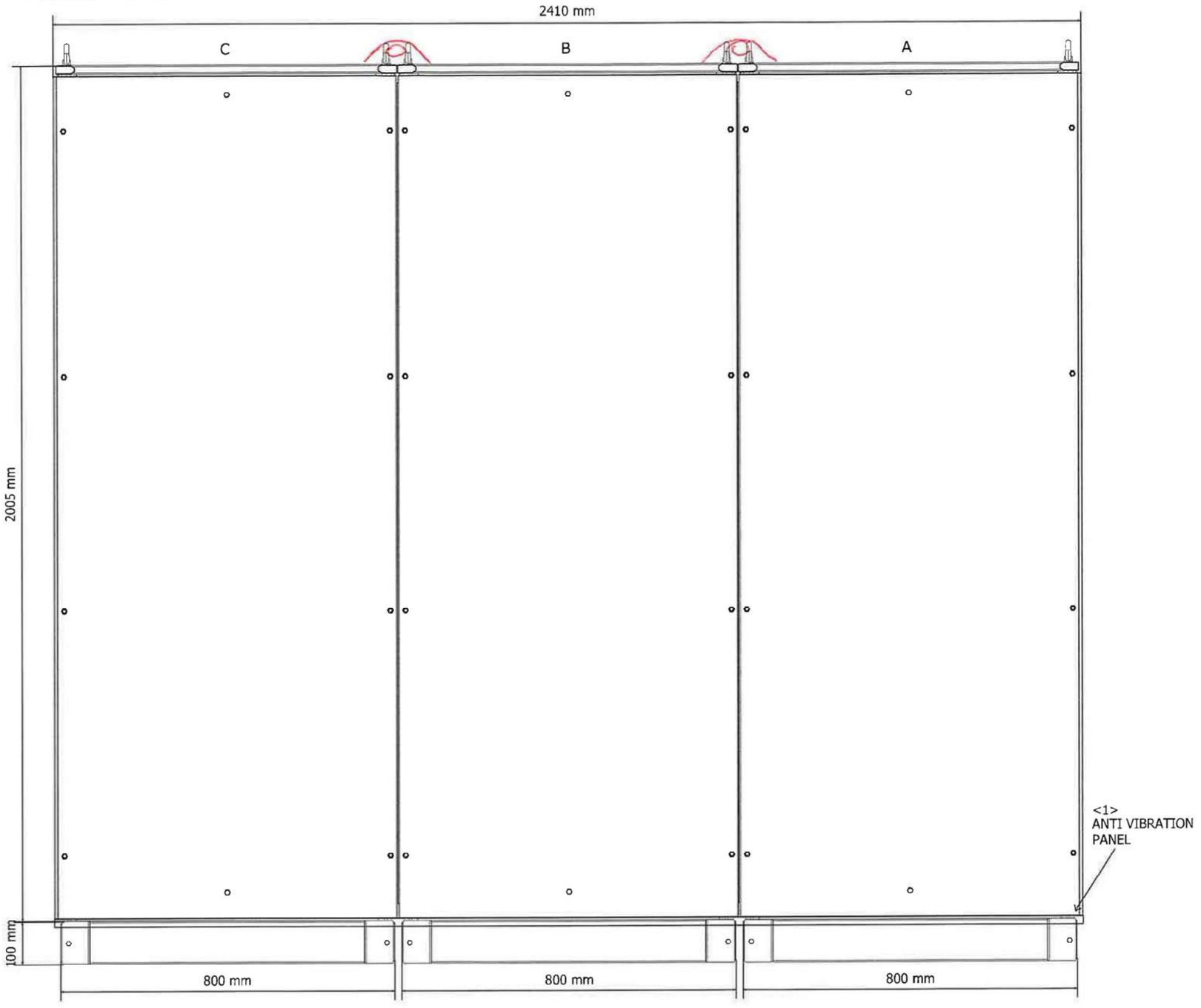
A3

DRAWING NO.
1724000594-IN-DA-00010

SHEET 008

REV. 1

FGS PANEL - EXTERNAL REAR VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL REAR VIEW

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

SCALE : 1

A3

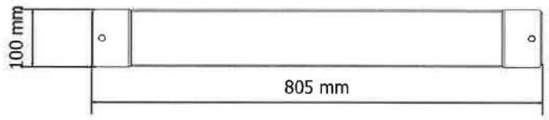
DRAWING NO.
1724000594-IN-DA-00010

SHEET 009

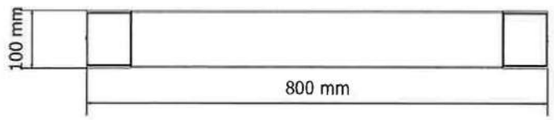
REV. 1

FGS PANEL - BASEPLATE DETAILS

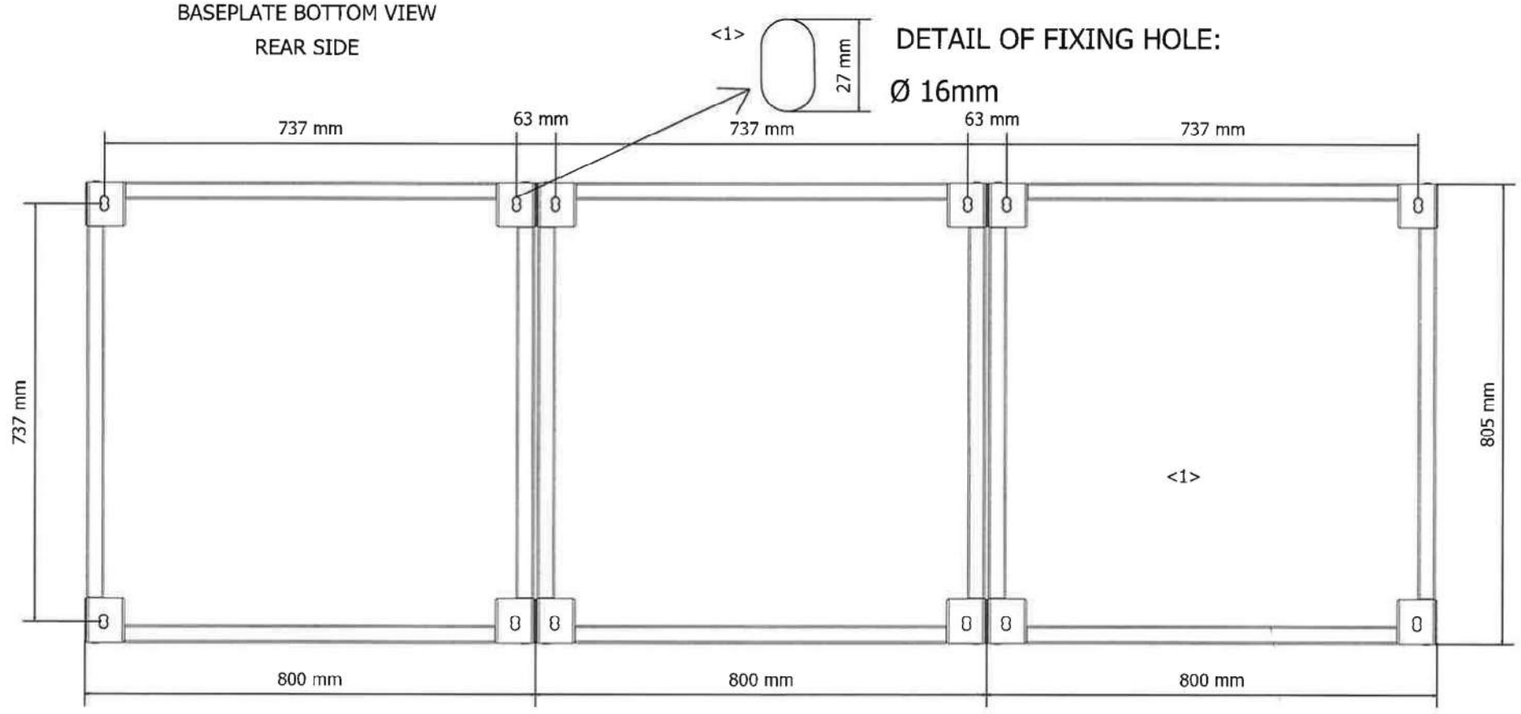
BASEPLATE SIDE VIEW



BASEPLATE FRONT VIEW



BASEPLATE BOTTOM VIEW
REAR SIDE



FRONT SIDE

<1>
DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - BASEPLATE DETAILS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00010

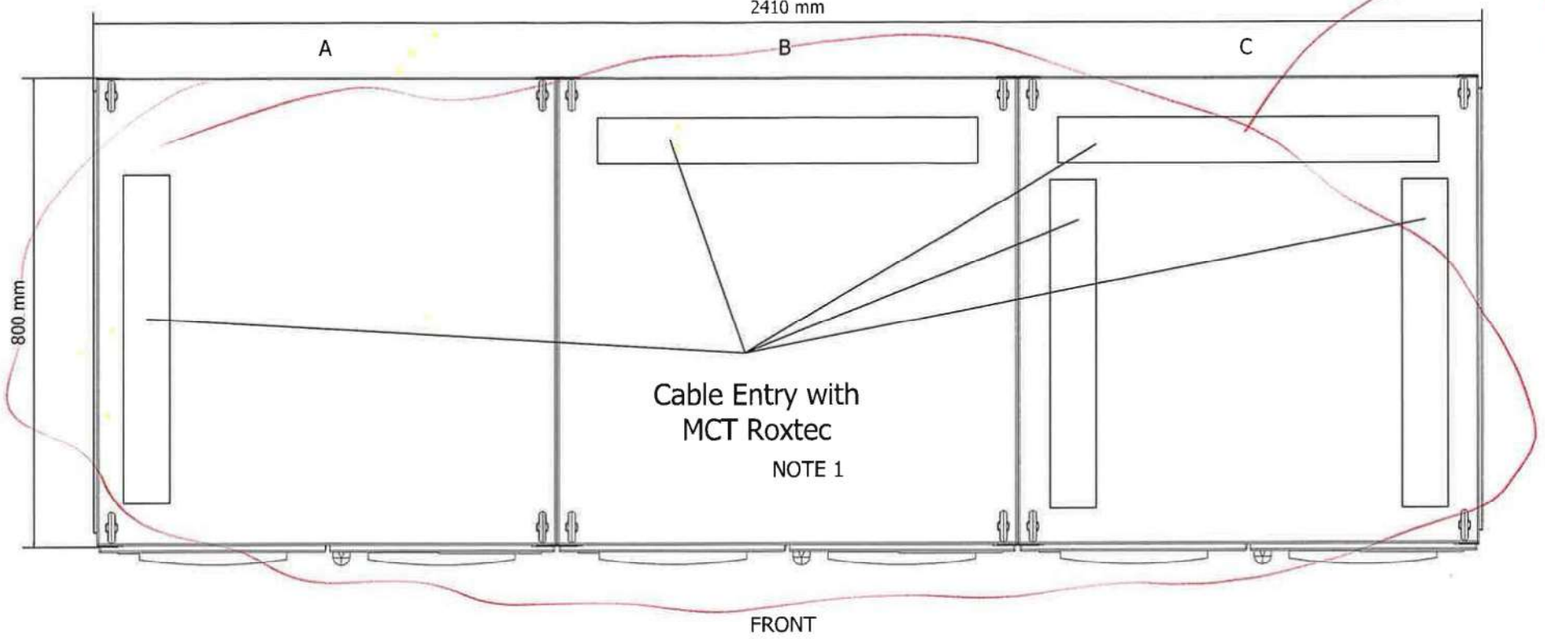
SHEET 010

REV. 1

FGS PANEL - EXTERNAL & INTERNAL TOP VIEW

EXTERNAL TOP VIEW

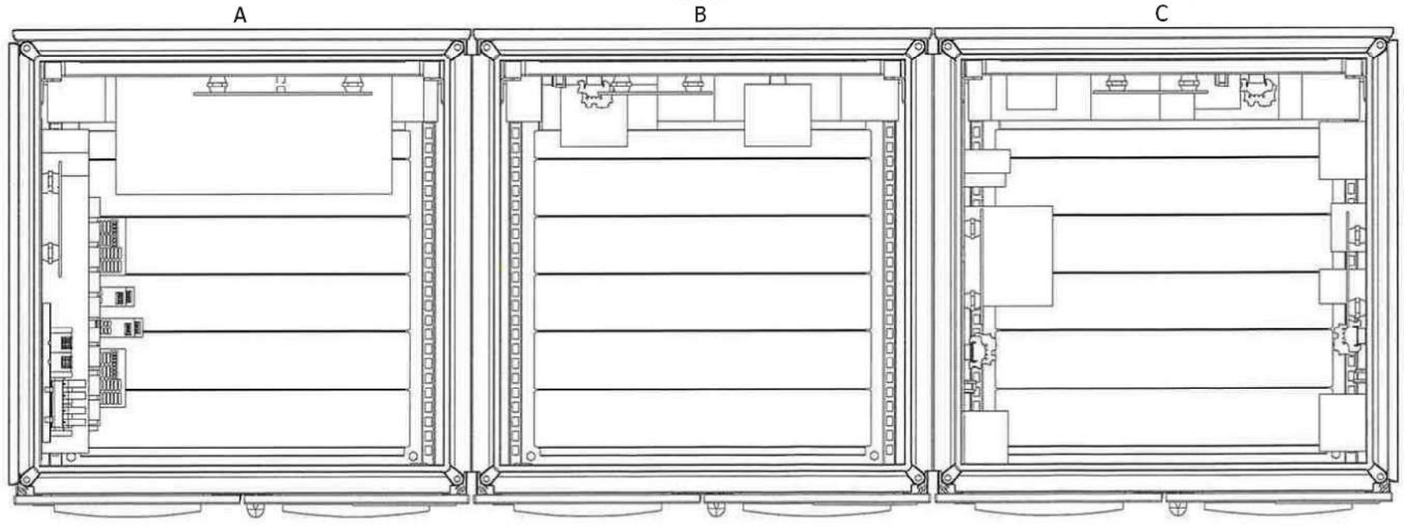
REAR



MCT NOT INSTALLED YET (F002)

INTERNAL TOP VIEW

REAR



FRONT

DRAWING SCALE 1:10

<1>

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL & INTERNAL TOP VIEW

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00010

SHEET 011

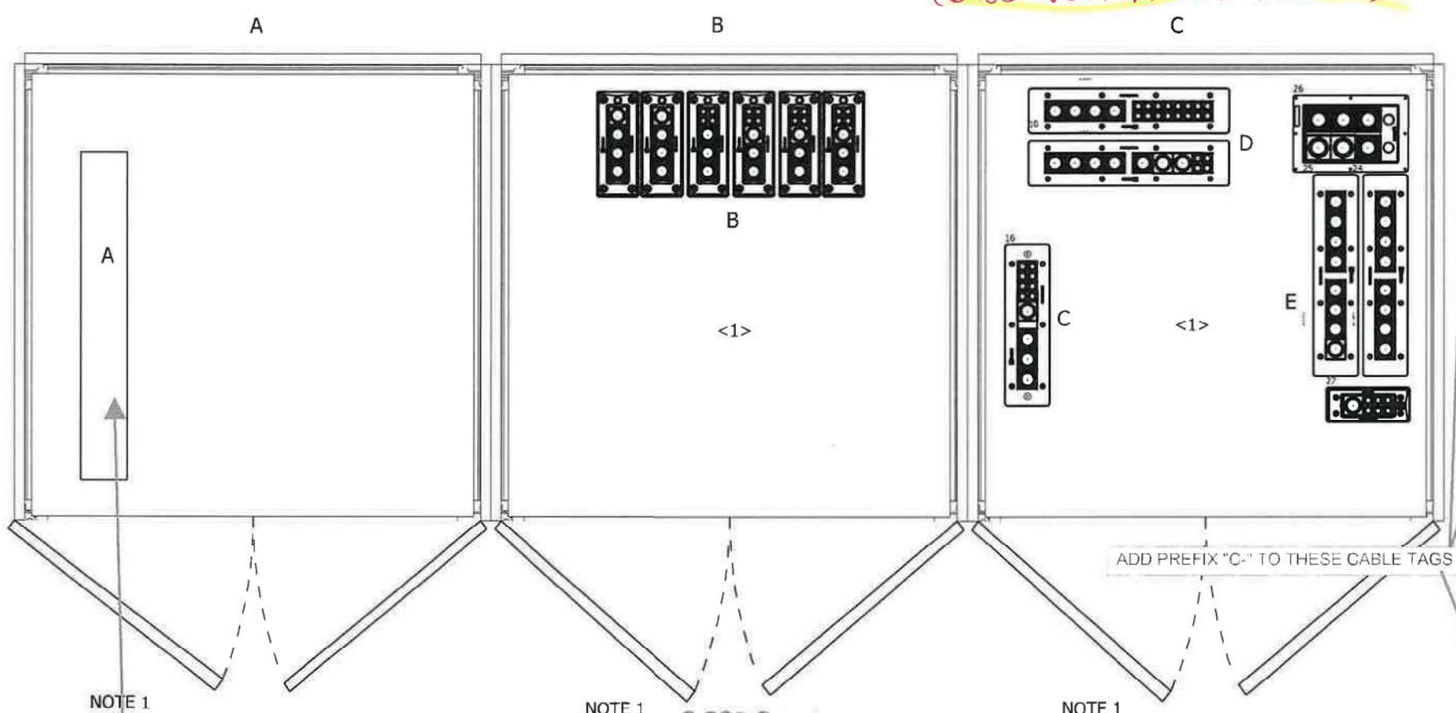
REV. 1

FGS PANEL - EXTERNAL TOP VIEW DOOR OPEN & MCT TABLE LIST

THE DRAWING SHALL SHOW THE EXACT POSITION OF EACH CABLE INSIDE EACH MCT FRAME.
SPARE "PLUGGED" ENTRIES SHALL ALSO BE PROVIDED.

EXTERNAL TOP VIEW
(DOOR OPEN)

NETWORK CABLES Vnet / IP TO BE ADDED (B400-NET1- A9/B9/A10/B10)



ADD PREFIX "C-" TO THESE CABLE TAGS

CABLE TAG	CABLE TYPE	OUTER CABLE DIAMETER (mm)	MCT SIZE	POSITION
77-HS-012B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-012/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
77-HS-013B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-013/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
77-HS-014B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-014/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
77-HS-015B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-015/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
77-HS-016B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-016/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
20-UCP-001/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	40x40	D
80-UCP-001/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	40x40	D
50-LP-002/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	40x40	D

CABLES TO BE ADDED IN FRAME "D"

B100-HSB-001/B400-FGS-002 - 6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS - 25.2mm
B200-HSB-001/B400-FGS-002 - 6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS - 25.2mm
B300-HSB-001/B400-FGS-002 - 6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS - 25.2mm

CABLE TAG	CABLE TYPE	OUTER CABLE DIAMETER (mm)	MCT SIZE	POSITION
950-JE-06204/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	40x40	C
950-JE-04204/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	40x40	C
950-JE-04208/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	40x40	C
950-SDZ-04201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04202/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04203/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04204/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04205/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04206/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-JE-01101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-02101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	50x50	E
950-JE-02102/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	50x50	E
950-JE-03101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	50x50	E
950-JE-04101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-05101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	50x50	E
950-JE-06101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-06201/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-04201/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-04205/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-01102/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-02103/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-03102/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-GDZ-04201/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04202/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04203/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04204/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04205/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04206/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-JE-01104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-02104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-03104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-04103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-05103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-06103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-07101/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-06203/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-04203/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-04207/B400-FGS-002	24x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	32.8	40x40	B
950-JE-05104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-XZ-04201/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
950-XL-04201/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
950-XL-04202/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
P320PLC/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	40x40	B
C-NC-200F2/B400-FGS-002.01	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
C-NC-200F2/B400-FGS-002.02	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
950-JE-01103/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
950-JE-03103/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
950-JE-04102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
950-JE-05102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
950-JE-06102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
C-950-MFA-02101/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	40x40	D
C-950-MFA-07101/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	40x40	D
C-950-MFA-06201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
C-950-MFA-04203/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
C-950-MFA-04202/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
C-950-MFA-05201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
C-950-MFA-04201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D

ADD PREFIX "C-" TO THESE CABLE TAGS

TAG NUMBER	FORMATION mm²	Internal Cable Color	Core Colour	Fire Detection	Armour WB/SWA/AWA/STA	MATED WEIGHT (T)	FROM ITEM Tag	FROM DESCRIPTION	FROM Equip. Grid Ref.	TO ITEM Tag	TO DESCRIPTION
[illegible]	3G2.5	Orange	BK/BU/YG	LSZH Fire Resistant	Armoured	2.0	DB 220V A	AC UPS 1 & 2 DB	DB CABINET	B400 / 05.001	FGS Fire & Gas Panel - Line A
[illegible]	3G2.5	Orange	BK/BU/YG	LSZH Fire Resistant	Armoured	2.0	DB 220V B	AC UPS 1 & 2 DB	DB CABINET	B400 / 05.001	FGS Fire & Gas Panel - Line B
[illegible]	3G2.5	Grey	BK/BU/YG	LSZH Flame Retardant	Unarmoured	2.0	DB 220V A	Lighting & Small Power DB Bulk	01/026	B400 / 05.001	FGS Fire & Gas Panel - Aux. In

NOTES :

NOTE 1: DOORS LOCK AT 90°

DRAWING SCALE 1:10

PLEASE ADD THESE CABLES IN MCT FRAME "A"

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL TOP VIEW DOOR OPEN & MCT TABLE LIST

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

SCALE : 1

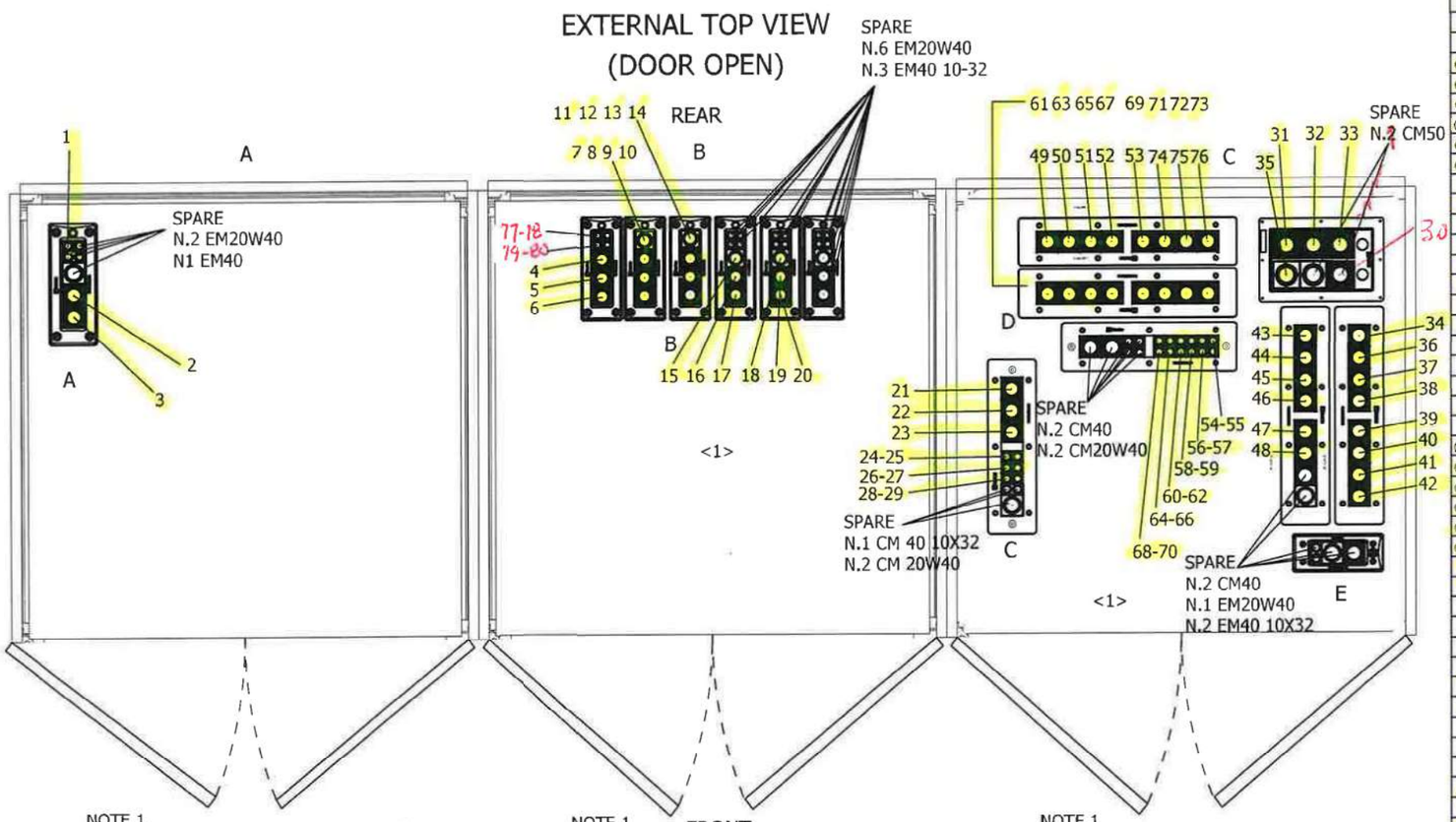
A3

DRAWING NO. 1724000594-IN-DA-00010

SHEET 012

REV. 1

FGS PANEL - EXTERNAL TOP VIEW DOOR OPEN & MCT TABLE LIST



CABLE TAG	CABLE TYPE	OUTER CABLE DIAM. (mm)	MCT SIZE	LOC.	POS.
C-77-HS-012B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	61
C-77-ZSL-012/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	62
C-77-HS-013B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	63
C-77-ZSL-013/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	64
C-77-HS-014B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	65
C-77-ZSL-014/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	66
C-77-HS-015B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	67
C-77-ZSL-015/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	68
C-77-HS-016B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	69
C-77-ZSL-016/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	70
20-UCP-001/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	CM40 10-32	D	71
80-UCP-001/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	CM40 10-32	D	72
50-LP-002/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	CM40 10-32	D	73
<2> B100-HSB-001/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	74
<2> B200-HSB-001/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	75
<2> B300-HSB-001/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	76
<2> 84401-CEL	3G2.5, ORANGE, NIS	15.5	EM40 10x32	A	1
<2> 84402-CEL	3G2.5, ORANGE, NIS	15.5	EM40 10x32	A	2
<2> 83107-CEL	3G2.5, ORANGE, NIS	13	EM20W40	A	3

CABLE TAG	CABLE TYPE	OUTER CABLE DIAM (mm)	MCT SIZE	LOC.	POS.
950-JE-06204/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	CM40	C	21
950-JE-04204/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	CM40	C	22
950-JE-04208/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	CM40	C	23
C-950-SDZ-04201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	24
C-950-SDZ-04202/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	25
C-950-SDZ-04203/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	26
C-950-SDZ-04204/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	27
C-950-SDZ-04205/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	28
C-950-SDZ-04206/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	29
950-JE-01101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM 40	E	30
950-JE-02101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	CM50	E	31
950-JE-02102/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	CM50	E	32
950-JE-03101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	CM50	E	33
950-JE-04101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	34
950-JE-05101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	CM50	E	35
950-JE-06101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	36
950-JE-06201/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	37
950-JE-04201/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	38
950-JE-04205/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	39
950-JE-01102/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	40
950-JE-02103/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	41
950-JE-03102/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	42
C-950-GDZ-04201/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	43
C-950-GDZ-04202/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	44
C-950-GDZ-04203/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	45
C-950-GDZ-04204/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	46
C-950-GDZ-04205/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	47
C-950-GDZ-04206/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	48
950-JE-01104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	4
950-JE-02104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	5
950-JE-03104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	6
950-JE-04103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	7
950-JE-05103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	8
950-JE-06103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	9
950-JE-07101/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	10
950-JE-06203/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	11
950-JE-04203/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	12
950-JE-04207/B400-FGS-002	24x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	32.8	EM40 10x32	B	13
950-JE-05104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	14
C-950-XZ-04201/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	15
C-950-XL-04201/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	16
C-950-XL-04202/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	17
P320PLC/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	EM40 10x32	B	18
C-NC-200F2/B400-FGS-002.01	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	19
C-NC-200F2/B400-FGS-002.02	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	20
950-JE-01103/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	49
950-JE-03103/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	50
950-JE-04102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	51
950-JE-05102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	52
950-JE-06102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	53
C-950-MFA-02101/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	54
C-950-MFA-07101/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	55
C-950-MFA-05201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	56
C-950-MFA-04203/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	57
C-950-MFA-04202/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	58
C-950-MFA-05201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	59
C-950-MFA-04201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	60
<2> B100-NET1-A9	CAT.6A 4x2xAWG23. Sh+Sht+ARM, F Ret, GREY, NIS	10.7	EM20W40	B	~~21~~ 77
<2> B100-NET1-B9	CAT.6A 4x2xAWG23. Sh+Sht+ARM, F Ret, GREY, NIS	10.7	EM20W40	B	~~22~~ 78
<2> B100-NET1-A10	CAT.6A 4x2xAWG23. Sh+Sht+ARM, F Ret, GREY, NIS	10.7	EM20W40	B	~~23~~ 79
<2> B100-NET1-B10	CAT.6A 4x2xAWG23. Sh+Sht+ARM, F Ret, GREY, NIS	10.7	EM20W40	B	~~24~~ 80

NOTES :

NOTE 1: DOORS LOCK AT 90°

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL TOP VIEW DOOR OPEN & MCT TABLE LIST

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

SCALE : 1

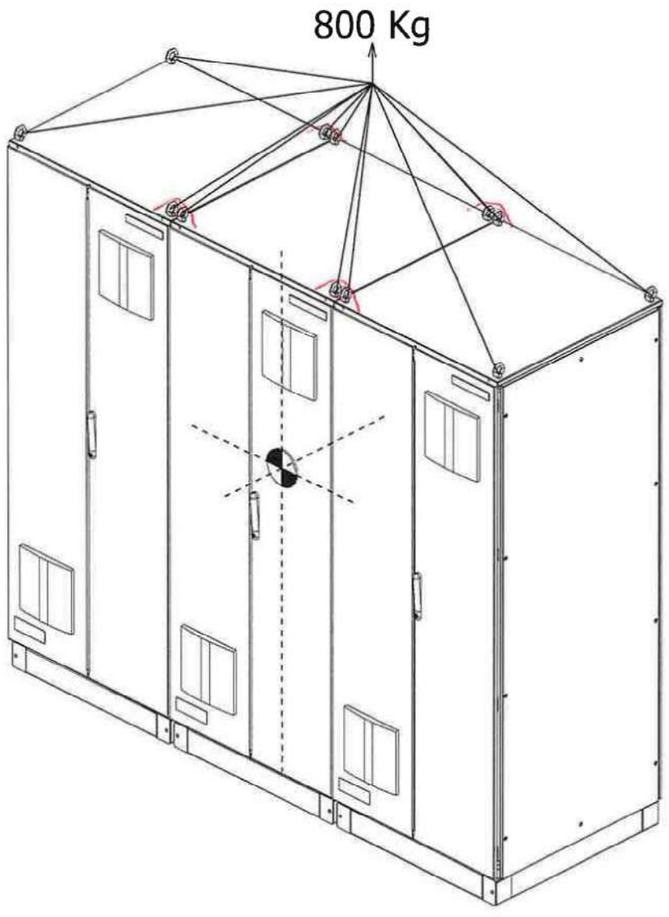
A3

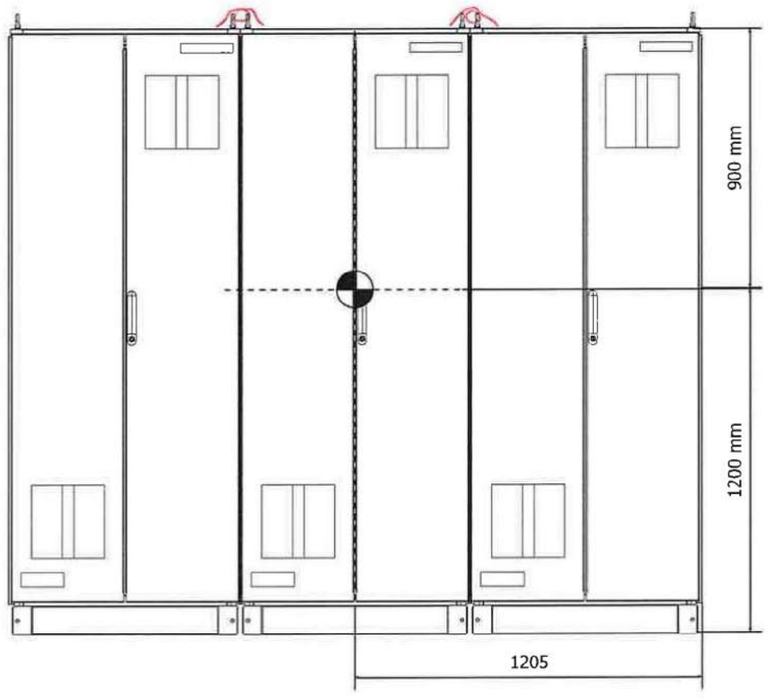
DRAWING NO. 1724000594-IN-DA-00010

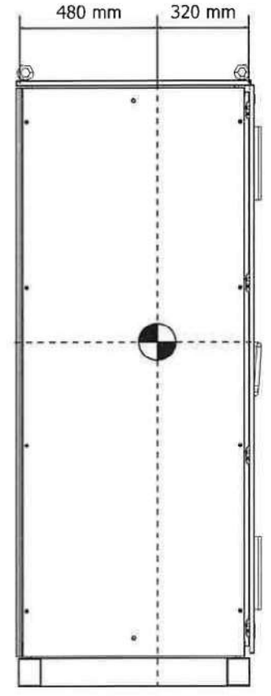
SHEET 012

REV. 1

FGS PANEL - LIFTING DETAILS







= CENTER OF GRAVITY

DRAWING SCALE 1:20
ALL QUOTES SHOWN ARE APPROXIMATE VALUE

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - LIFTING DETAILS

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00010

SHEET 013

REV. 1

FGS PANEL - FRONT DOOR CUT-OUT DETAILS



NOTE 1 : CUT-OUT FOR AIR VENTILATION FILTER

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - FRONT DOOR CUT-OUT DETAILS

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00010

SHEET 014

REV. 1

FGS PANEL - FRONT SIDE INTERNAL VIEW

FRONT SIDE

DEVICE "A"
(26) -S2SC70D-FA12010
(22) -N: 6: SAI143-H63
<1> (23) -N: 2: SEC401-S1 — 51
(24) -N: 2: S2CP471-01
(25) -N: 2: SPW482-53
(37) AIP 602

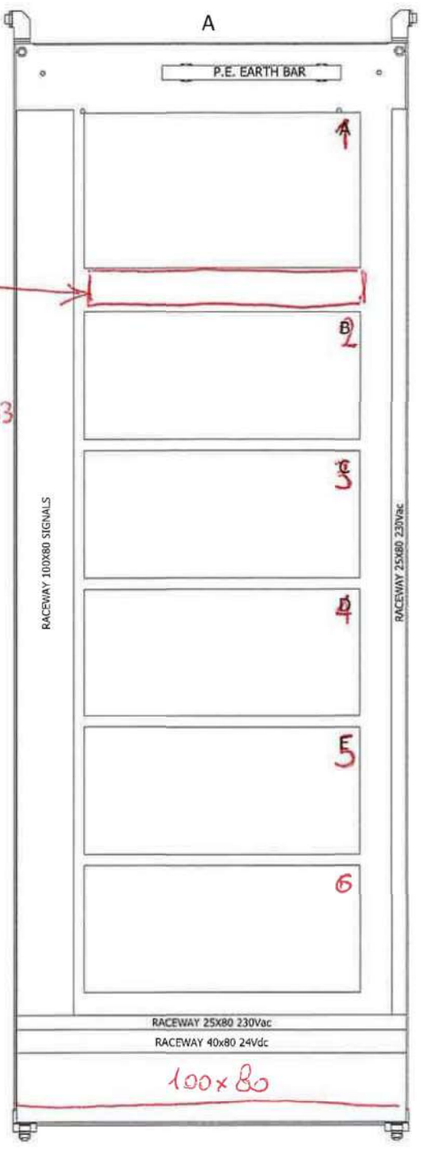
DEVICE "B"
(27) -SNB10D-425/CU2N
(22) -N: 4: SAI143-H63
(28) -N: 2: SDV144-S63
<1> (29) -N: 2: SDV541-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53

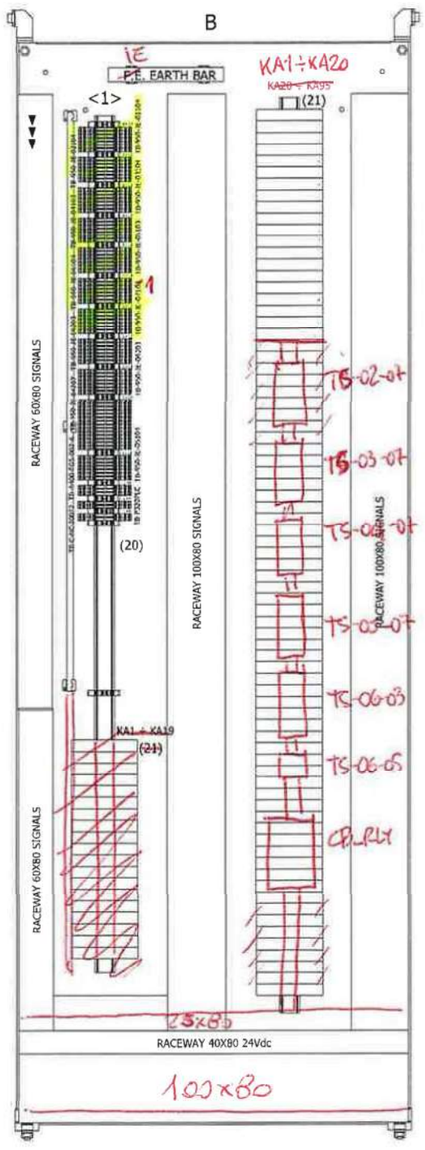
DEVICE "C"
(27) -SNB10D-425/CU2N
(22) -N: 4: SAI143-H63
(28) -N: 2: SDV144-S63
<1> (29) -N: 2: SDV541-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53

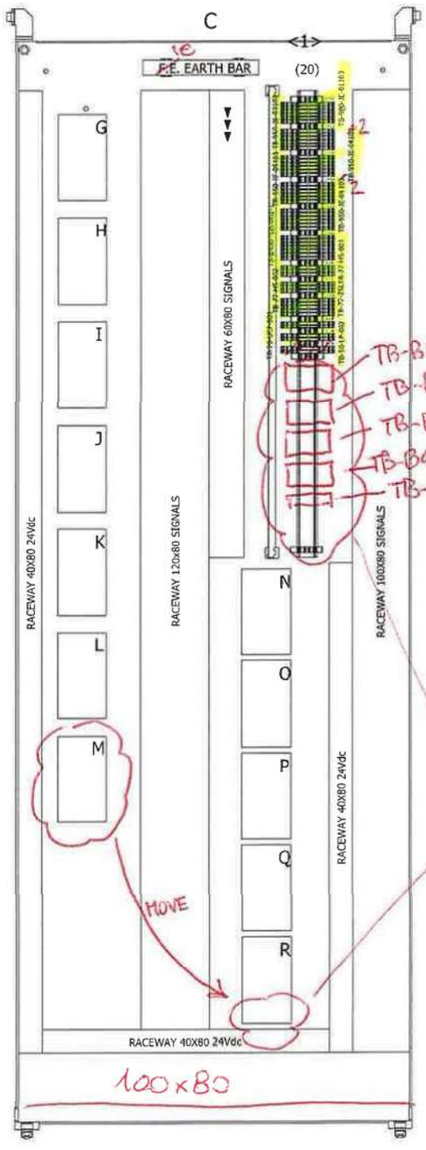
DEVICE "D"
(27) -SNB10D-425/CU2N
(22) -N: 4: SAI143-H63
(28) -N: 2: SDV144-S63
<1> (29) -N: 2: SDV541-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53

DEVICE "E"
(27) -SNB10D-425/CU2N
(22) -N: 2: SAI143-H63
(28) -N: 4: SDV144-S63
<1> (29) -N: 2: SDV541-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53

DEVICE "F"
(30) -SNB10D-425/CU2T
-N: 2: SPARE
<1> (29) -N: 4: SDV541-S63
(28) -N: 2: SPARE SDV144-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53







DEVICE "G" ÷ "R"
SBD4D-06 (31)

G = TB-02-07 (31)
H = TB-03-07
I = TB-04-07
J = TB-05-07
K = TB-06-03
L = TB-06-05
M = TB-06-07
N = TB-02-05
O = TB-03-05
P = TB-04-05
Q = TB-05-03
R = TB-05-05

TB-B100-HSB-001
TB-B200-HSB-001
TB-B300-HSB-001
TB-B400-HSB-001
TB-B0-UCP-001

TO BE ADDED AS-BUILT

GENERAL COMMENT:
PLEASE EVALUATE THE POSSIBILITY TO INCREASE AS MUCH AS POSSIBLE THE SIZE OF RACEWAYS FOR FIELD CABLES.
PLEASE IDENTIFY THEM WITH A DIFFERENT PATTERN.

⋮ = CABLE ENTRY

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

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

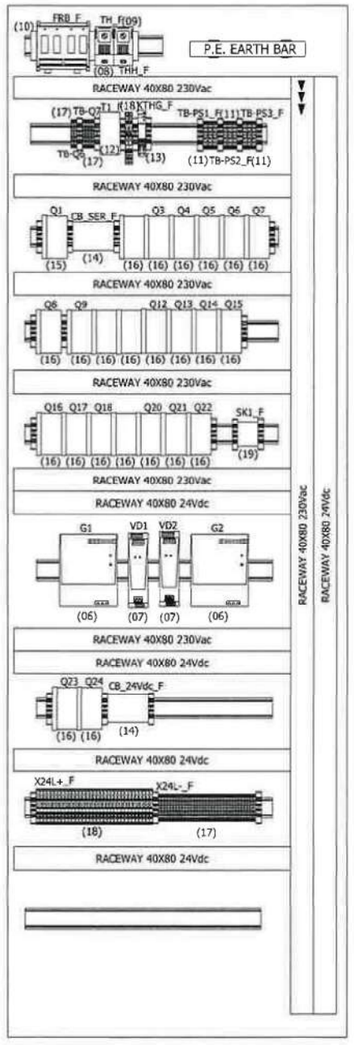
TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - FRONT SIDE INTERNAL VIEW

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DA-00010
SHEET 015
REV. 1

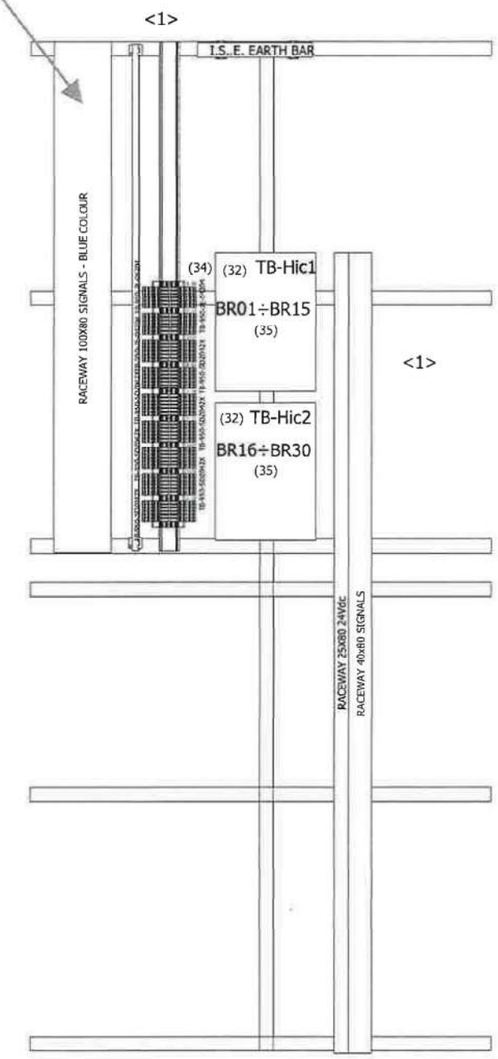
FGS PANEL - RIGHT/LEFT SIDE INTERNAL VIEWS

PLEASE IDENTIFY WITH A DEDICATED PATTERN ALL RACEWAYS FOR I.S. CIRCUITS

LEFT SIDE (A)

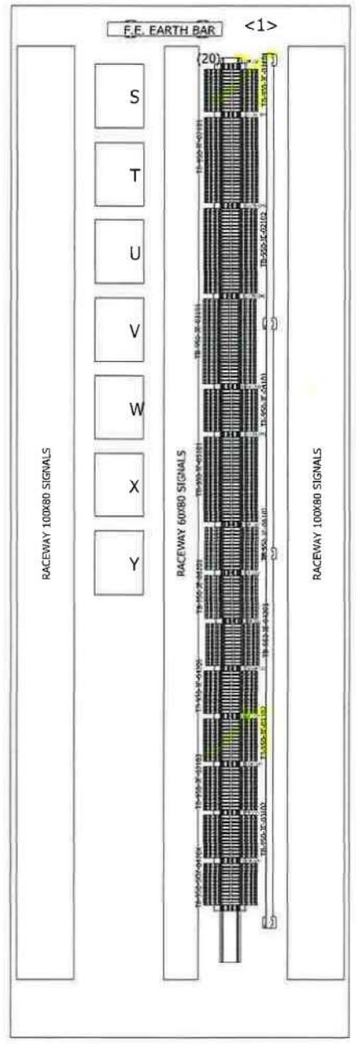


LEFT SIDE (C)



RIGHT SIDE (C)

DEVICE "S" ÷ "Y"
SBA4D-06 (33)



▼ = CABLE ENTRY

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - RIGHT/LEFT SIDE INTERNAL VIEWS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00010

SHEET 016

REV. 1

TYPICAL 01



TYPICAL 01

MANUFACTURER LABEL ITEM (02)

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

DRAWING SCALE 1:1

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND | ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
MANUFACTURER LABEL DETAILS

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

A3 | DRAWING NO. 1724000594-IN-DA-00010 | SHEET 027 | REV. 1

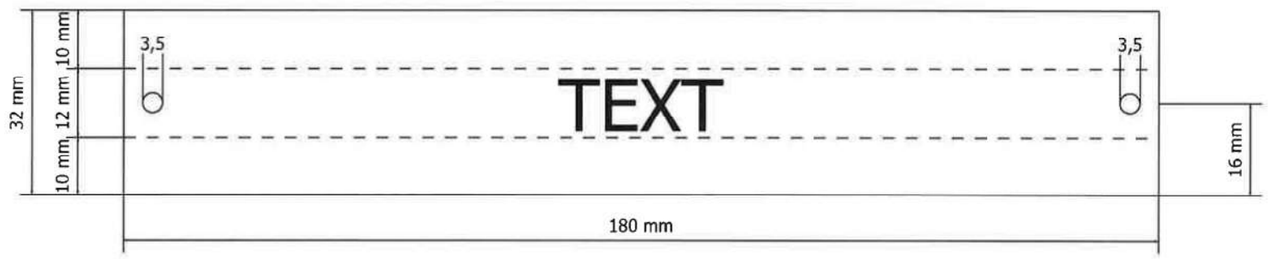
SIS & FGS PANELS - SECTION IDENTIFIER NAMEPLATE DETAILS

TYPICAL 02

LABEL FOR SECTION IDENTIFIER ITEM (05)

MATERIAL	: TRAFOLYTE
DIMENSION	: 180mm x 32mm (lxh)
BACKGROUND COLOUR	: TRAFOLYTE
TEXT COLOUR	: BLACK
TEXT HEIGHT	: 12 mm
TEXT FONT	: ARIAL
FIXING	: BY STAINLESS STEEL SCREWS

TYPICAL 02



CABINET	TEXT
~~FGS LEFT STRUCTURE MARSHALLING CABINET~~	B400-FGS-001
~~FGS CENTRAL STRUCTURE MARSHALLING CABINET~~	B400-FGS-002
~~FGS RIGHT STRUCTURE MARSHALLING CABINET~~	B400-FGS-003
SIS SYSTEM/MARSHALLING CABINET	B400-SIS-001

FGS SYSTEM CABINET
FGS MARSHALLING CABINET 1
FGS MARSHALLING CABINET 2

<1>

DRAWING SCALE 1:1

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND | ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
SECTION IDENTIFIER NAMEPLATE DETAILS

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

A3 | DRAWING NO. 1724000594-IN-DA-00010 | SHEET 028 | REV. 1

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE
060	X									BASE LOAD POWER HUB (BLPH) SPARE PAGE
061	X	X								BASE LOAD POWER HUB (BLPH) 24Vdc POWER DISTRIBUTION
062	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - FAULT ALARM SIGNALS TO DCS
063	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - RACK "A" POWER DISTRIBUTION
064	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - RACK "B" POWER DISTRIBUTION
065	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - RACK "C" POWER DISTRIBUTION
066	X									BASE LOAD POWER HUB (BLPH) SIS PANEL - TYPICAL WIRING DIGITAL INPUT/OUTPUT
067	X									BASE LOAD POWER HUB (BLPH) SIS PANEL - TYPICAL WIRING ANALOG INPUT
068	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
069	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL OUTPUT SIGNALS
070	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL OUTPUT SIGNALS
071	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL OUTPUT SIGNALS
072	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
073	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL INPUT SIGNALS
074	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL INPUT SIGNALS
075	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL INPUT SIGNALS
076	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
077	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - ANALOG INPUT SIGNALS

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

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
INDEX

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 003

REV. 1

NUMBER	SYMBOL	REFERENCE	DESCRIPTION
01		IEC 60417-5031	DIRECT CURRENT
02		IEC 60417-5032	ALTERNATING CURRENT
03		IEC 60417-5033	BOTH DIRECT AND ALTERNATING CURRENT
04		.	THREE-PHASE ALTERNATING CURRENT
05		IEC 60417-5017	EARTH (GROUND) TERMINAL
06		IEC 60417-5019	PROTECTIVE CONDUCTOR TERMINAL
07		IEC 60417-5020	FRAME OR CHASSIS TERMINAL
08		IEC 60417-5021	EQUIPOTENTIALITY
09		IEC 60417-5007	ON (SUPPLY)
10		IEC 60417-5008	OFF (SUPPLY)
11		IEC 60417-5172	EQUIPMENT PROTECTED THROUGHOUT BY DOUBLE INSULATION OR REINFORCED INSULATION
12		.	CAUTION RISK OF ELECTRIC SHOCK
13		IEC 60417-5041	CAUTION HOT SURFACE
14		ISO 7000-0434	CAUTION RISK OF DANGER
15		IEC 60417-5266	IN POSITION OF A BI-STABLE PUSH CONTROL
16		IEC 60417-5269	OUT POSITION OF A BI-STABLE PUSH CONTROL

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
LEGEND

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 03A

REV. 1

MSXX XA	ROTATIVE MAIN SWITCH -	EVx Flx	ELECTRIC FAN WITH FAULT DETECTION	BARRIER NAME	I.S. BARRIER (NOTE: AB-xx FOR ACTIVE BARRIERS, ZB-xx FOR ZENER BARRIERS)
QFXX XA XMA Qx 13 14 I> I>	DIFFERENTIAL RESIDUAL CURRENT CIRCUIT BREAKER WITH AUXILIARY CONTACT	HEx	PANEL ELECTRIC HEATER -	ISOLATOR NAME	GALVANIC ISOLATOR -
QFXX XA Qx 13 14	AUTOMATIC CIRCUIT BREAKER WITH AUXILIARY CONTACT	T1 230Vac 24Vac 230Vac/24Vac	AC/AC VOLTAGE TRANSFORMER -	1	FUSED TERMINAL -
QUXX XA	DISCONNECTOR WITH FUSE -	TH 1 2 <1>	THERMOSTATE NO CONTACT -	1	KNIFE TERMINAL -
QFXX XA XMA I> I>	PURE RESIDUAL CURRENT CIRCUIT BREAKER	KXX	NO CONTACT -	1	FEED THROUGH TERMINAL -
L1 SAX PEN L2 PEM *1 2805331 *2 2807569 - -	SURGE ARRESTOR -	KXX	NC CONTACT -	(20-B02) PAGE ROW (20-B02) COLUMN	PAGE CROSS REFERENCE INDICATION -
EF-1 TB-2 TB-1	LINE FILTER MODULE -	Sx	DOOR LIMIT SWITCH -	CBxx L N	COMMON BOX -
SKxx	SERVICE SOCKET -	HA-x	FRONT PANEL ALARM BUZZER -		- -
GDXX 4 IBDW AC DC	AC/DC FEEDER -	Hx 15W	INTERNAL LIGHT OR FRONT PANEL LIGHT		- -
VDX IN IN OUT OUT REDUNDANCY DIODE MODULE 40A	REDUNDANCY DIODE MODULE -		MUSHROOM PUSHBUTTON INDICATOR NORMAL PUSHBUTTON INDICATOR		- -
KX	RELAYS -		ROTATIVE SELECTOR INDICATOR -		- -
	- -	Rp 10kΩ	RESISTOR -		- -
	- -		- -		- -

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SYMBOL LEGEND

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

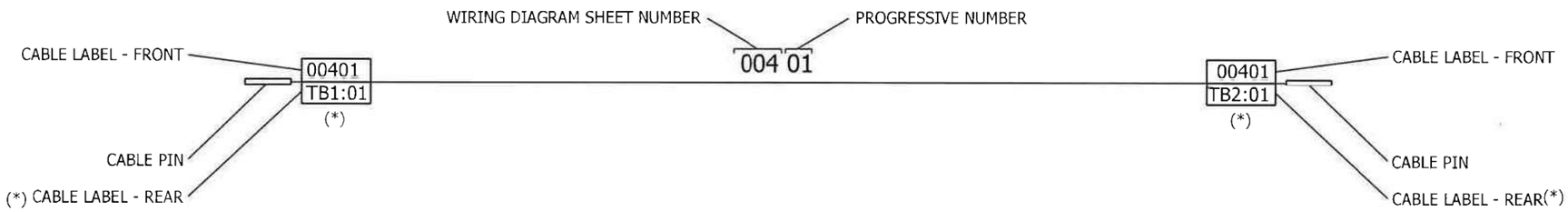
SHEET 004

REV. 1

COLOR ACRONYMS LIST :

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

TYPICAL WIRE MARKING



EARTH CONNECTION RESUME TABLE:

	CABINET
P.E. EARTH	▭
I.E. EARTH	▭
I.S.E. EARTH	▭

EARTH ACRONYMS LEGEND :

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

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

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS

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

A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 005
REV. 1

FGS PANEL - POWER DISTRIBUTION FROM UPS LINE 1

230Vac-50Hz
FROM UPS#1
(BY CUSTOMER)

CUSTOMER CONNECTION POINT

TB-PS1_F

00601 BR 6 mm² — 00603 LB 6 mm² — 00611 YG 6 mm² — PE

MS1_F
230Vac
32A

CB_UPS1_F
(007-B02)

(007-C02)
(007-C02)

00604 BR 6 mm² — 00602 LB 6 mm²

	Q6	Q7	Q8	Q9	Q10
Cable	00605 BR 2,5 mm² / 00606 LB 2,5 mm²	00607 BR 2,5 mm² / 00608 LB 2,5 mm²	00609 BR 2,5 mm² / 00610 LB 2,5 mm²	00512 BR 2,5 mm² / 00613 LB 2,5 mm²	00614 BR 2,5 mm² / 00615 LB 2,5 mm²
Device	Q6 230Vac 16A "C" CURVE	Q7 230Vac 6A "D" CURVE	Q8 230Vac 6A "D" CURVE	Q9 230Vac 6A "D" CURVE	Q10 230Vac 6A "D" CURVE
	(017-B02)	(017-A02)	(017-A03)	(017-B03)	(017-C03)
Cable	01501 BR 2,5 mm² / 01502 LB 2,5 mm²	02201 BR 1,5 mm² / 02202 LB 1,5 mm²	02301 BR 1,5 mm² / 02302 LB 1,5 mm²	02401 BR 1,5 mm² / 02402 LB 1,5 mm²	02501 BR 1,5 mm² / 02502 LB 1,5 mm²
	(015-B02) / (015-B02)	(022-G02) / (022-G02)	(023-G02) / (023-G02)	(024-G02) / (024-G02)	(025-G02) / (025-G02)
	POWER SUPPLY G1_F	POWER SUPPLY (1) RACK "A" PW482-51 (1)	POWER SUPPLY (1) RACK "B" PW482-51 (2)	POWER SUPPLY (1) RACK "C" PW482-51 (3)	POWER SUPPLY (1) RACK "D" PW482-51 (4)

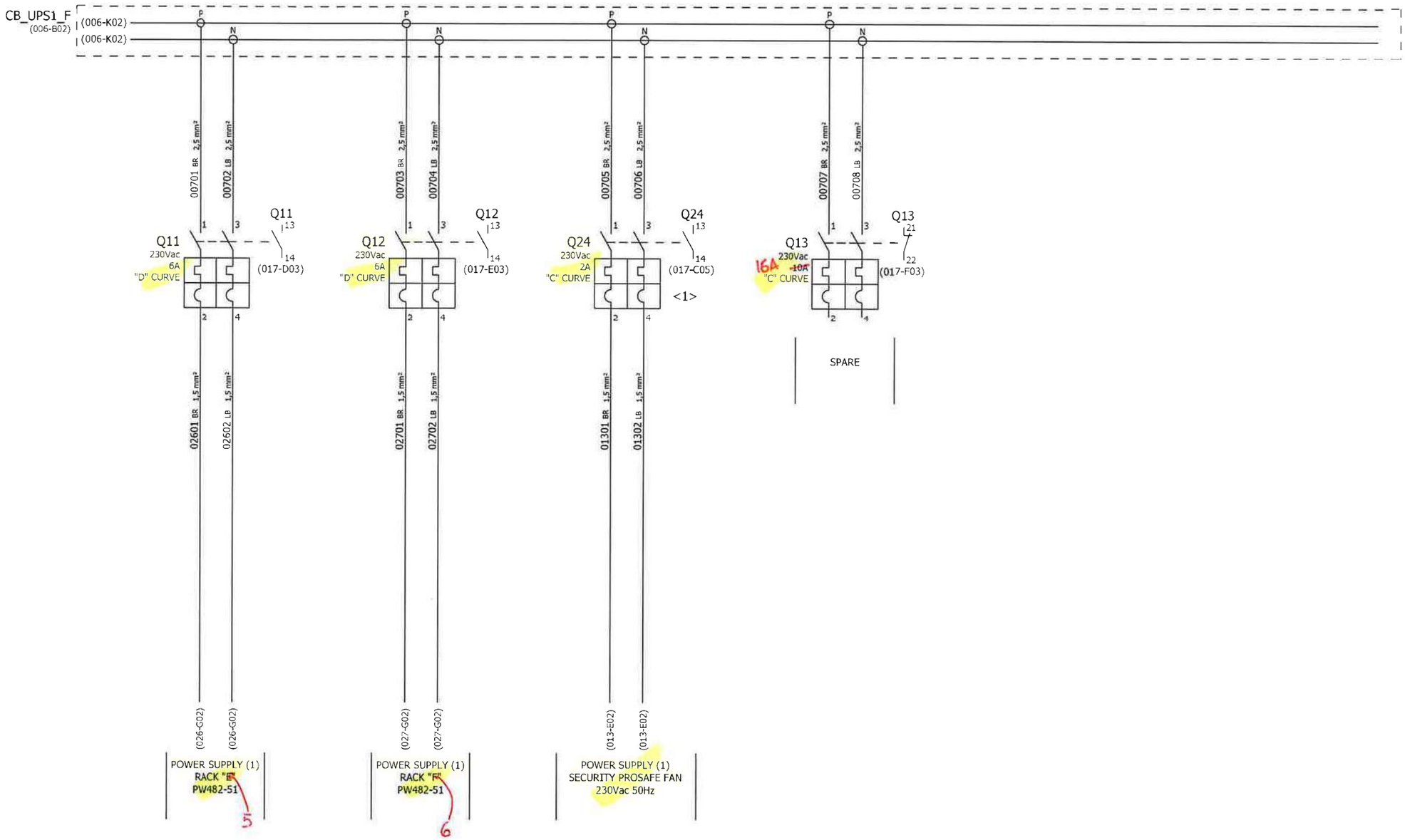
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

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

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 006
REV. 1

FGS PANEL - POWER DISTRIBUTION FROM UPS LINE 1



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 007

REV. 1

FGS PANEL - POWER DISTRIBUTION FROM UPS LINE 2

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

CUSTOMER CONNECTION POINT

TB-PS2_F 1 2 3

00801 BR 6 mm² — 00803 LB 6 mm² — 00611 YG 6 mm² — PE

CB_UPS2_F
(009-B02)

(009-C02)
(009-C02)

MS2_F
230Vac
32A

00804 BR 6 mm²
00802 LB 6 mm²

	Q14	Q15	Q16	Q17	Q18
230Vac	16A "C" CURVE	6A "D" CURVE	6A "D" CURVE	6A "D" CURVE	6A "D" CURVE
	(017-G03)	(017-F04)	(017-E04)	(017-D04)	(017-C04)
	00805 BR 2,5 mm²	00807 BR 2,5 mm²	00809 BR 2,5 mm²	00811 BR 2,5 mm²	00813 BR 2,5 mm²
	00806 LB 2,5 mm²	00808 LB 2,5 mm²	00810 LB 2,5 mm²	00812 LB 2,5 mm²	00814 LB 2,5 mm²
	01503 BR 2,5 mm²	02203 BR 1,5 mm²	02303 BR 1,5 mm²	02403 BR 1,5 mm²	02503 BR 1,5 mm²
	01504 LB 2,5 mm²	02204 LB 1,5 mm²	02304 LB 1,5 mm²	02404 LB 1,5 mm²	02504 LB 1,5 mm²
	(015-H02) (015-H02)	(022-H02) (022-H02)	(023-H02) (023-H02)	(024-H02) (024-H02)	(025-H02) (025-H02)
	POWER SUPPLY G2_F	POWER SUPPLY (2) RACK "A" PW482-51 1	POWER SUPPLY (2) RACK "B" PW482-51 2	POWER SUPPLY (2) RACK "C" PW482-51 3	POWER SUPPLY (2) RACK "D" PW482-51 4

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND — ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 008

REV. 1

A B C D E F G H J K

FGS PANEL - POWER DISTRIBUTION FROM UPS LINE 2

01 02 03 04 05 06 07 08 09 10

CB_UPS2_F
(008-B02)

(008-K02) P
(008-K02) N

00901 BR 2,5 mm² — Q19 1 — Q19 2 — 02603 BR 1,5 mm² — (026-H02) — POWER SUPPLY (2) RACK "E" PW482-51 — 5
00902 LB 2,5 mm² — Q19 3 — Q19 4 — 02604 LB 1,5 mm² — (026-H02)

Q19 230Vac 6A "D" CURVE — Q19 13 — 14 (017-B04)

00903 BR 2,5 mm² — Q20 1 — Q20 2 — 02703 BR 1,5 mm² — (027-H02) — POWER SUPPLY (2) RACK "F" PW482-51 — 6
00904 LB 2,5 mm² — Q20 3 — Q20 4 — 02704 LB 1,5 mm² — (027-H02)

Q20 230Vac 6A "D" CURVE — Q20 13 — 14 (017-A04)

00905 BR 2,5 mm² — Q25 1 — Q25 2 — 01303 BR 1,5 mm² — (013-F02) — POWER SUPPLY (2) SECURITY PROSAFE FAN 230Vac 50Hz
00906 LB 2,5 mm² — Q25 3 — Q25 4 — 01304 LB 1,5 mm² — (013-F02)

Q25 230Vac 2A "C" CURVE — Q25 13 — 14 (017-D05) <1>

00907 BR 2,5 mm² — Q21 1 — Q21 2
00908 LB 2,5 mm² — Q21 3 — Q21 4

Q21 230Vac 10A "C" CURVE — Q21 21 — 22 (017-B05)

SPARE

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND — ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 009

REV. 1

FGS PANEL - POWER DISTRIBUTION FROM NON UPS

230Vac-50Hz
FROM MCC
(BY CUSTOMER)

CUSTOMER CONNECTION POINT

TB-PS3_F 1 2 3

01001 BR 6 mm² | 01003 LB 6 mm² | 00611 YG 6 mm² → PE

CB_SER_F
(011-A01)

N P P P N P N

(011-A01)
(011-A01)

01004 LB 6 mm² | 01002 BR 6 mm²

01005 BR 2.5 mm² | 01007 LB 2.5 mm²

01009 BR 2.5 mm² | 01015 LB 2.5 mm²

01020 BR 2.5 mm² | 01021 LB 2.5 mm²

Q1
230Vac
25A
Id 30mA
(017-G02)

Q2
230Vac
16A
"C" CURVE
(017-F02)

Q3
230Vac
2A
"C" CURVE
(017-E02)

Q4
230Vac
4A
"C" CURVE
(017-D02)

SPARE

01006 BR 2.5 mm² | 01008 LB 2.5 mm²

01010 BR 1.5 mm² | 01011 BR 1.5 mm² | 01012 BR 1.5 mm²

S1_F | S2_F | S3_F

01013 BR 1.5 mm² | 01018 BR 1.5 mm² | 01019 BR 1.5 mm²

H1_F | H2_F | H3_F

SK1_F — 00611 YG 2,5 mm² → PE

01014 LB 1,5 mm² | 01017 LB 1,5 mm² | 01017 LB 1,5 mm²

SERVICE SOCKET
230Vac 50Hz

INTERNAL LIGHT (LEFT SIDE)
230Vac 50Hz
TOTAL CONSUMPTION: 15W

INTERNAL LIGHT (CENTRAL SIDE)
230Vac 50Hz
TOTAL CONSUMPTION: 15W

INTERNAL LIGHT (RIGHT SIDE)
230Vac 50Hz
TOTAL CONSUMPTION: 15W

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

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

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

SCALE : 1

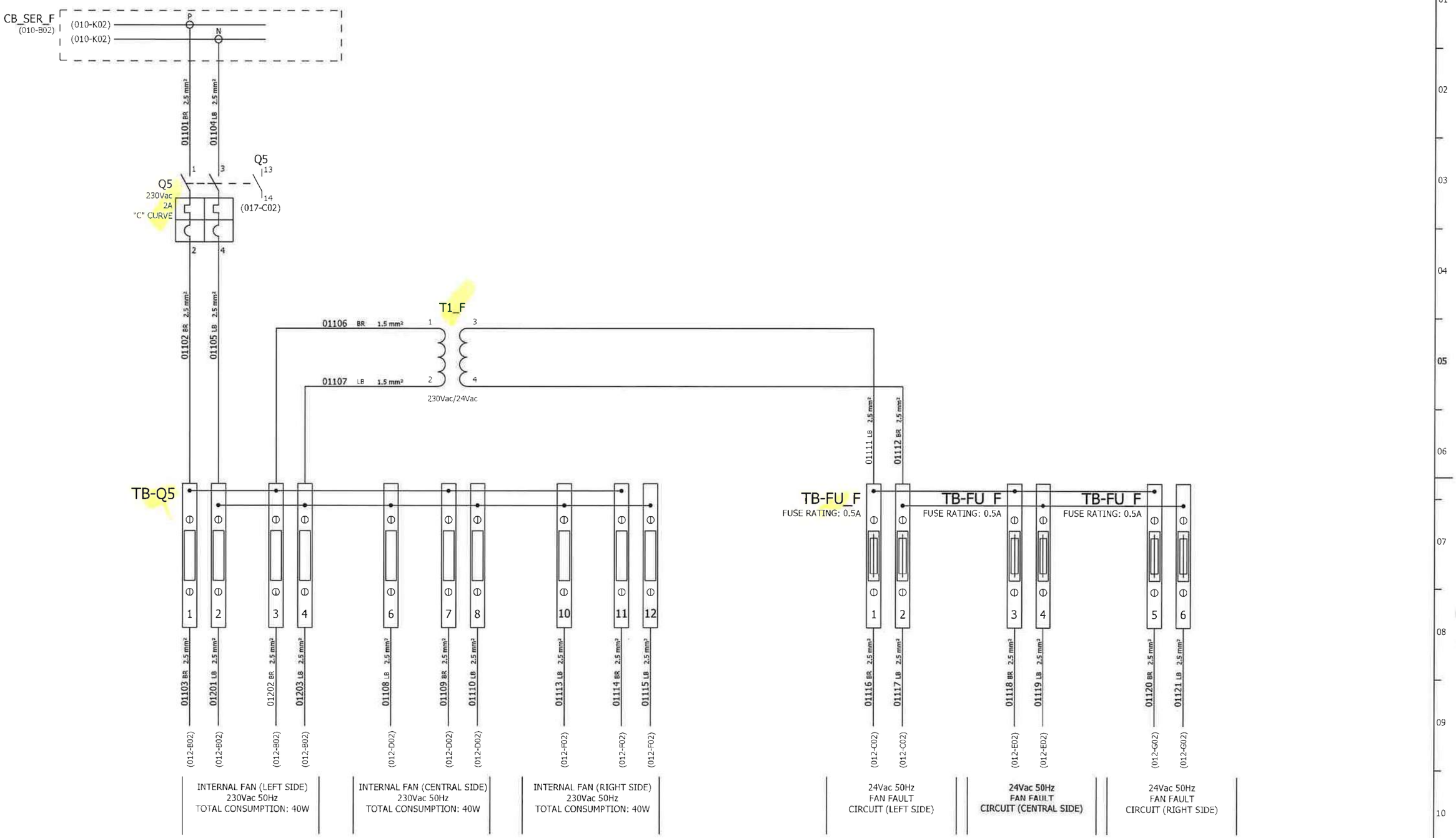
A3

DRAWING NO.
1724000594-IN-DG-00021

SHEET 010

REV. 1

FGS PANEL - POWER DISTRIBUTION FROM NON UPS



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

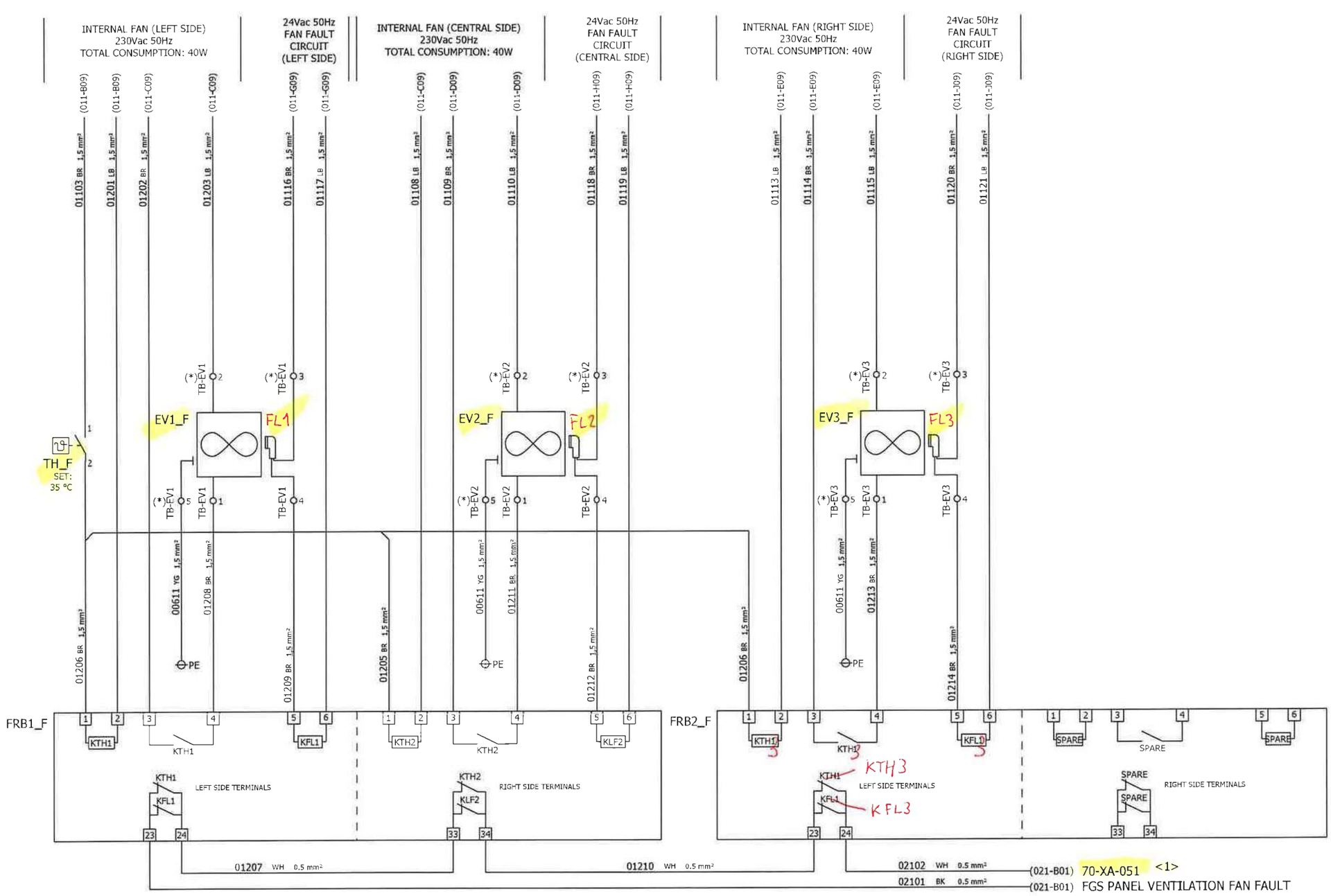
A3

DRAWING NO.
1724000594-IN-DG-00021

SHEET 011

REV. 1

FGS PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN & HEATER



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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

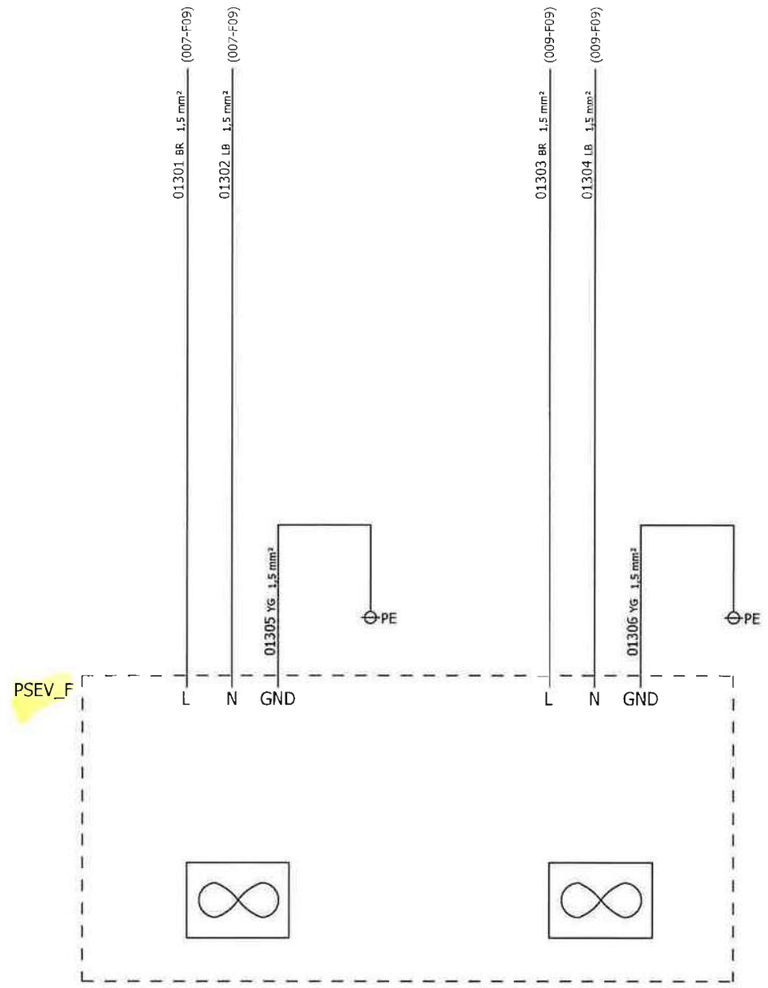
CROSSWIND | ROSETTI MARINO

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

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

A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 012
REV. 1

FGS PANEL - 230Vac 50Hz POWER DISTRIBUTION SECURITY PROSAFE FAN



1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - 230Vac 50Hz POWER DISTRIBUTION SECURITY PROSAFE FAN

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

A3 | DRAWING NO. 1724000594-IN-DG-00021 | SHEET 013 | REV. 1

SHEET LEFT INTENTIONALLY BLANK

1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 014

REV. 1

FGS PANEL - 230Vac/24Vdc POWER DISTRIBUTION

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#1

(006-D09) 01501 BR 2,5 mm² — (006-D09) 01502 LB 2,5 mm²

G1_F
IN: 230Vac
OUT: 24Vdc
480W
20A
WEIDMULLER PRO ECO
code 1469510000

02103 WH 1 mm² (021-B02)
01414 WH 1 mm²
00611 YG 2,5 mm² PE

70-XA-052
FGS PANEL POWER SUPPLY
24Vdc FAILURE <1>

01505 RD 4 mm² — 01507 BU 4 mm² — 01506 RD 4 mm² — 01510 BU 4 mm²

VD1_F
20A
WEIDMULLER PRO DM 20
code 2486080000
IN1+ IN1- IN2+ IN2-
OUT+ OUT-
<1>
<1>

01508 RD 6 mm² — 01511 BU 6 mm²

INSTALLED 16A
TO BE REPLACED
(F003)

Q22
24Vdc
32A
Q22 13 14 (017-D07)

01509 RD 6 mm² — 01512 BU 6 mm²

CB_24Vdc_F
(019-A01)
(020-A01)
(021-A05)
(019-A01)
(019-A01)

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#2

(008-D08) 01503 BR 2,5 mm² — (008-D08) 01504 LB 2,5 mm²

G2_F
IN: 230Vac
OUT: 24Vdc
480W
20A
WEIDMULLER PRO ECO
code 1469510000

01415 WH 1 mm²
02104 BK 1 mm² (021-B02)
00611 YG 2,5 mm² PE

70-XA-052
FGS PANEL POWER SUPPLY
24Vdc FAILURE

01513 RD 4 mm² — 01515 BU 4 mm² — 01514 RD 4 mm² — 01518 BU 4 mm²

VD2_F
20A
WEIDMULLER PRO DM 20
code 2486080000
IN1+ IN1- IN2+ IN1-
OUT+ OUT-
<1>
<1>

01516 RD 6 mm² — 01519 BU 6 mm²

Q23
24Vdc
32A
Q23 13 14 (017-C07)

01517 RD 6 mm² — 01520 BU 6 mm²

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND — ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 015

REV. 1

SHEET LEFT INTENTIONALLY BLANK

1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

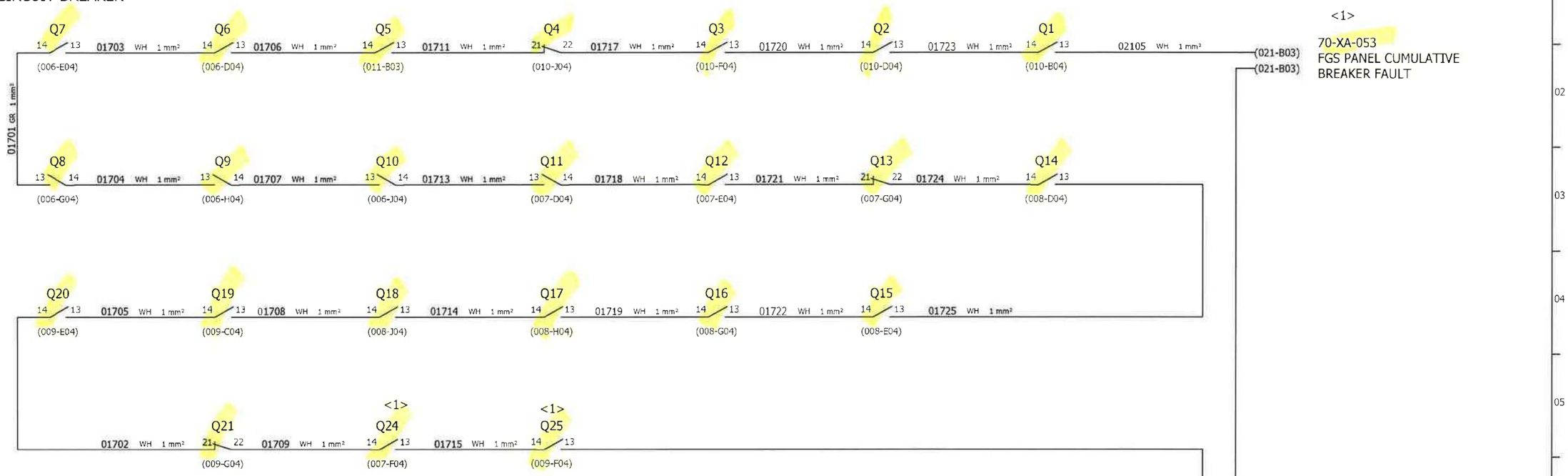
DRAWING NO.
1724000594-IN-DG-00021

SHEET 016

REV. 1

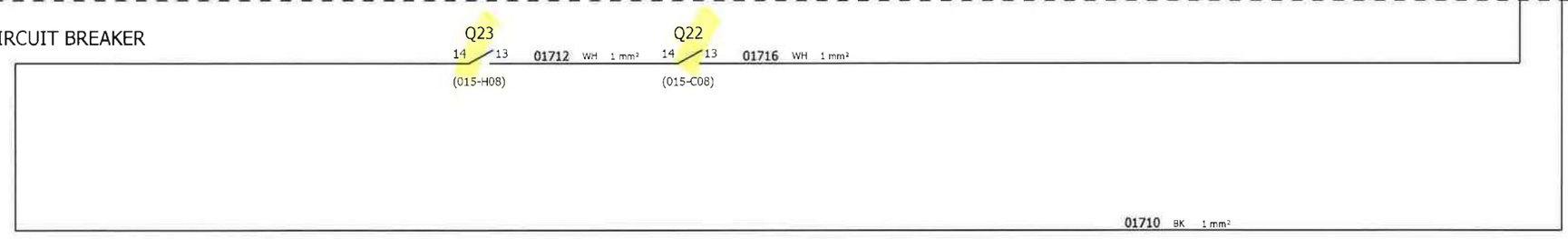
FGS PANEL - BRAKER FAULT ALARM CIRCUIT

230Vac CIRCUIT BREAKER



<1>
70-XA-053
FGS PANEL CUMULATIVE
BREAKER FAULT

24Vdc CIRCUIT BREAKER



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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - BREAKER FAULT ALARM CIRCUIT

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

SCALE : 1

A3

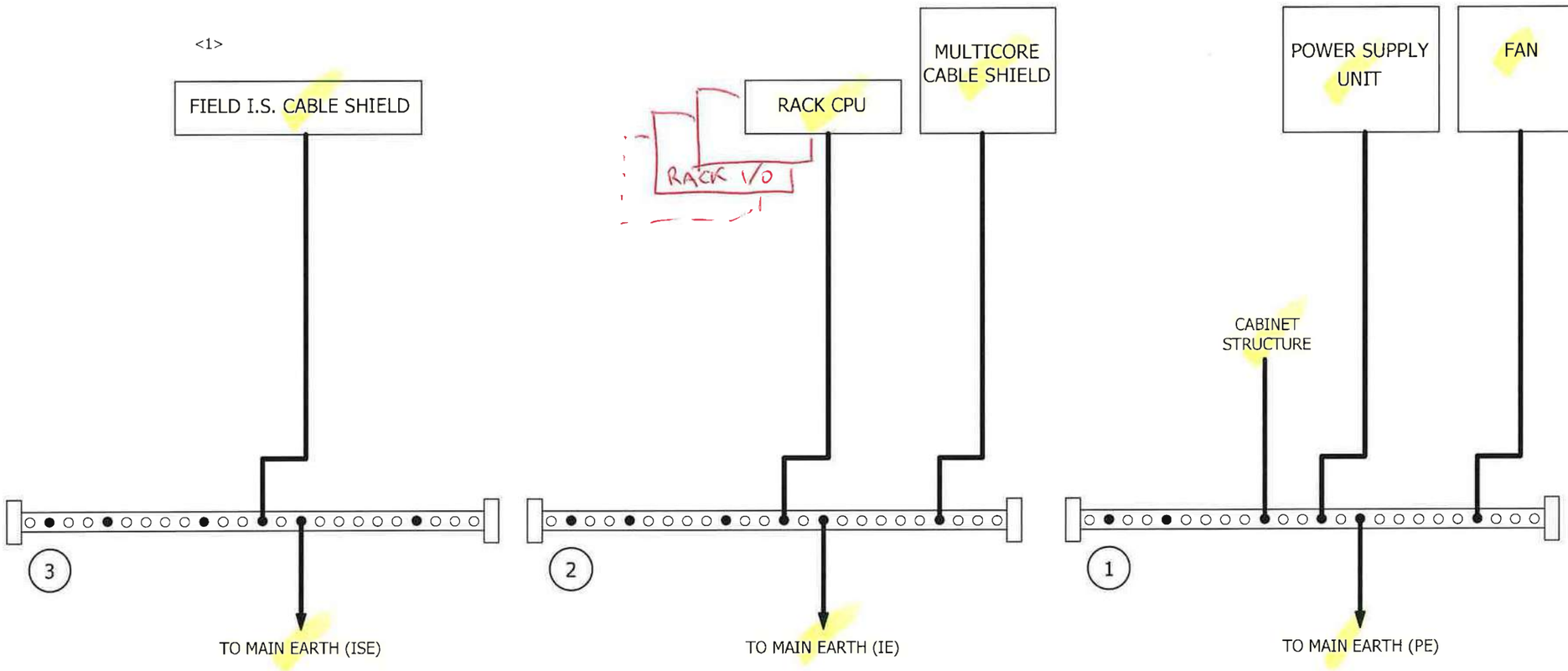
DRAWING NO. 1724000594-IN-DG-00021

SHEET 017

REV. 1

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

<1>



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 018

REV. 1

FGS PANEL - 24Vdc POWER DISTRIBUTION

CB_24Vdc_F

(015-B10) | (015-J10) (020-A01)
(020-A01) | (015-J10) (020-A01)
(021-A05) | (015-J10) (020-A01)

01901 RD 4 mm²
01903 BU 4 mm²
01902 RD 4 mm²
01904 BU 4 mm²

F1
10A

01905 RD 4 mm²
01907 BU 4 mm²
01906 RD 4 mm²
01908 BU 4 mm²

F2
10A

CB-COM-A1

TO TYPICAL FGS_DO02
RELAY SIGNAL POWER SUPPLY
(PAG 028)

CB_RLY

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

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

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
24Vdc POWER DISTRIBUTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 019
REV. 1

FGS PANEL - 24Vdc POWER DISTRIBUTION

CB_24Vdc_F

(015-B10) | (019-K01)
(019-A01)
(021-A05) | (019-K01)

(021-B05)
(021-B05)

02001 RD 4 mm²
02003 BU 4 mm²
02066 BU 4 mm²
02065 RD 4 mm²
02063 RD 4 mm²
02064 BU 4 mm²

XL24+_F ~~X24L+~~
XL24-_F ~~X24L-~~

<1>

1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21	22	22	23	23	24	24	25	25	26	26	27	27	28	28	29	29	30	30	31	31	32	32	33	33	34	34
																																																																		SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE

02002 RD 1,5 mm² — 24Vdc for TB-02-05 (1) — 1+ 1-
02004 BU 1,5 mm² — 24Vdc for TB-02-05 (2) — 2+ 2-
02005 RD 1,5 mm² — 24Vdc for TB-02-07 (1) — 1+ 1-
02006 BU 1,5 mm² — 24Vdc for TB-02-07 (2) — 2+ 2-
02007 RD 1,5 mm² — 24Vdc for TB-03-05 (1) — 1+ 1-
02008 BU 1,5 mm² — 24Vdc for TB-03-05 (2) — 2+ 2-
02009 RD 1,5 mm² — 24Vdc for TB-03-07 (1) — 1+ 1-
02010 BU 1,5 mm² — 24Vdc for TB-03-07 (2) — 2+ 2-
02011 RD 1,5 mm² — 24Vdc for TB-04-05 (1) — 1+ 1-
02012 BU 1,5 mm² — 24Vdc for TB-04-05 (2) — 2+ 2-
02013 RD 1,5 mm² — 24Vdc for TB-04-07 (1) — 1+ 1-
02014 BU 1,5 mm² — 24Vdc for TB-04-07 (2) — 2+ 2-
02015 RD 1,5 mm² — 24Vdc for TB-05-03 (1) — 1+ 1-
02016 BU 1,5 mm² — 24Vdc for TB-05-03 (2) — 2+ 2-
02017 RD 1,5 mm² — 24Vdc for TB-05-05 (1) — 1+ 1-
02018 BU 1,5 mm² — 24Vdc for TB-05-05 (2) — 2+ 2-
02019 RD 1,5 mm² — 24Vdc for TB-05-07 (1) — 1+ 1-
02020 BU 1,5 mm² — 24Vdc for TB-05-07 (2) — 2+ 2-
02021 RD 1,5 mm² — 24Vdc for TB-06-03 (1) — 1+ 1-
02022 BU 1,5 mm² — 24Vdc for TB-06-03 (2) — 2+ 2-
02023 RD 1,5 mm² — 24Vdc for TB-06-05 (1) — 1+ 1-
02024 BU 1,5 mm² — 24Vdc for TB-06-05 (2) — 2+ 2-
02025 RD 1,5 mm² — 24Vdc for TB-06-07 (1) — 1+ 1-
02026 BU 1,5 mm² — 24Vdc for TB-06-07 (2) — 2+ 2-
02027 RD 1,5 mm² — 24Vdc for TB-01-05 (1) — 3+ 4-
02028 BU 1,5 mm² — 24Vdc for TB-01-05 (2) — 5+ 6-
02029 RD 1,5 mm² — 24Vdc for TB-01-03 (1) — 3+ 4-
02030 BU 1,5 mm² — 24Vdc for TB-01-03 (2) — 5+ 6-
02031 RD 1,5 mm² — 24Vdc for TB-01-01 (1) — 3+ 4-
02032 BU 1,5 mm² — 24Vdc for TB-01-01 (2) — 5+ 6-
02033 RD 1,5 mm² — 24Vdc for TB-06-07 (1) — 1+ 1-
02034 BU 1,5 mm² — 24Vdc for TB-06-07 (2) — 2+ 3-
02035 RD 1,5 mm² — 24Vdc for TB-01-05 (1) — 4+ 5-
02036 BU 1,5 mm² — 24Vdc for TB-01-05 (2) — 6+ 3-
02037 RD 1,5 mm² — 24Vdc for TB-01-03 (1) — 4+ 5-
02038 BU 1,5 mm² — 24Vdc for TB-01-03 (2) — 6+ 3-
02039 RD 1,5 mm² — 24Vdc for TB-01-01 (1) — 4+ 5-
02040 BU 1,5 mm² — 24Vdc for TB-01-01 (2) — 6+

<1> <1> <1> <1>

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

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

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
24Vdc POWER DISTRIBUTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 020
REV. 1

FGS PANEL - FAULT ALARM SIGNALS TO DCS & "GDZ" SIGNALS POWER SUPPLY

70-XA-051 (012-G10)	02102 WH 1 mm²	09	09A	IN 21	SLOT 7	NODE 6
- (012-G10)	02101 BK 1 mm²		09B	IN 21	SLOT 7	NODE 6
			09C	IN 21	SLOT 7	NODE 6

70-XA-051 - <1>

70-XA-052 (015-C04)	02103 WH 1 mm²	10	10A	IN 22	SLOT 7	NODE 6
- (015-J04)	02104 BK 1 mm²		10B	IN 22	SLOT 7	NODE 6
			10C	IN 22	SLOT 7	NODE 6

70-XA-052 - <1>

70-XA-053 (017-J02)	02105 WH 1 mm²	11	11A	IN 23	SLOT 7	NODE 6
- (017-J02)	01710 BK 1 mm²		11B	IN 23	SLOT 7	NODE 6
			11C	IN 23	SLOT 7	NODE 6

70-XA-053 - <1>

70-XA-054 -	02106 WH 1 mm²	12	12A	IN 24	SLOT 7	NODE 6
THH_F SET: 40 °C (21 / 24) <1>	02107 BK 1 mm²		12B	IN 24	SLOT 7	NODE 6
			12C	IN 24	SLOT 7	NODE 6

70-XA-054 - <1>

CB_24Vdc_F

(015-B10) (019-A01) (020-A01) (020-K01) (020-K01) <1>

02108 RD 2,5 mm²
02109 BU 2,5 mm²

1	2	950-GDZ-01101-PS
3	4	950-GDZ-01102-PS
5	6	950-GDZ-01103-PS
7	8	950-GDZ-02117-PS
9	10	950-GDZ-02118-PS
11	12	950-GDZ-02119-PS
13	14	950-GDZ-02120-PS
15	16	950-GDZ-03101-PS

02110 RD 2,5 mm²
02111 BU 2,5 mm²

17	18	950-GDZ-03102-PS
19	20	950-GDZ-03103-PS
21	22	950-GDZ-03104-PS
23	24	950-GDZ-03105-PS
25	26	SPARE
27	28	SPARE
29	30	SPARE
31	32	SPARE

FGS001-UA005 AT_01_F <1> 03301 WH 1mm² 03302 BK 1mm² <1>

DETAIL TO BE IMPLEMENTED

13 A	IN 13	S.7	N.6
B	↓	S.7	N.6
C		S.7	N.6

70-XA-055

to A	SLOT 5	NODE 2
to B	SLOT 5	2
to C	5	2

FGS001-UA-05

CUSTOMER TAG	SIGNAL DESCRIPTION FROM IO LIST
70-XA-051	FGS PANEL VENTILATION FAN FAULT
70-XA-052	FGS PANEL POWER SUPPLY & DIODES FAILURE
70-XA-053	FGS PANEL CUMULATIVE BREAKER FAULT
70-XA-054	FGS PANEL HIGH TEMPERATURE ALARM
70-XA-055	FGS PANEL DIGITAL/TB CUMUL. FAULT /ANALOG

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - FAULT ALARM SIGNALS TO DCS & "GDZ" SIGNALS P.S.

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

SCALE : 1

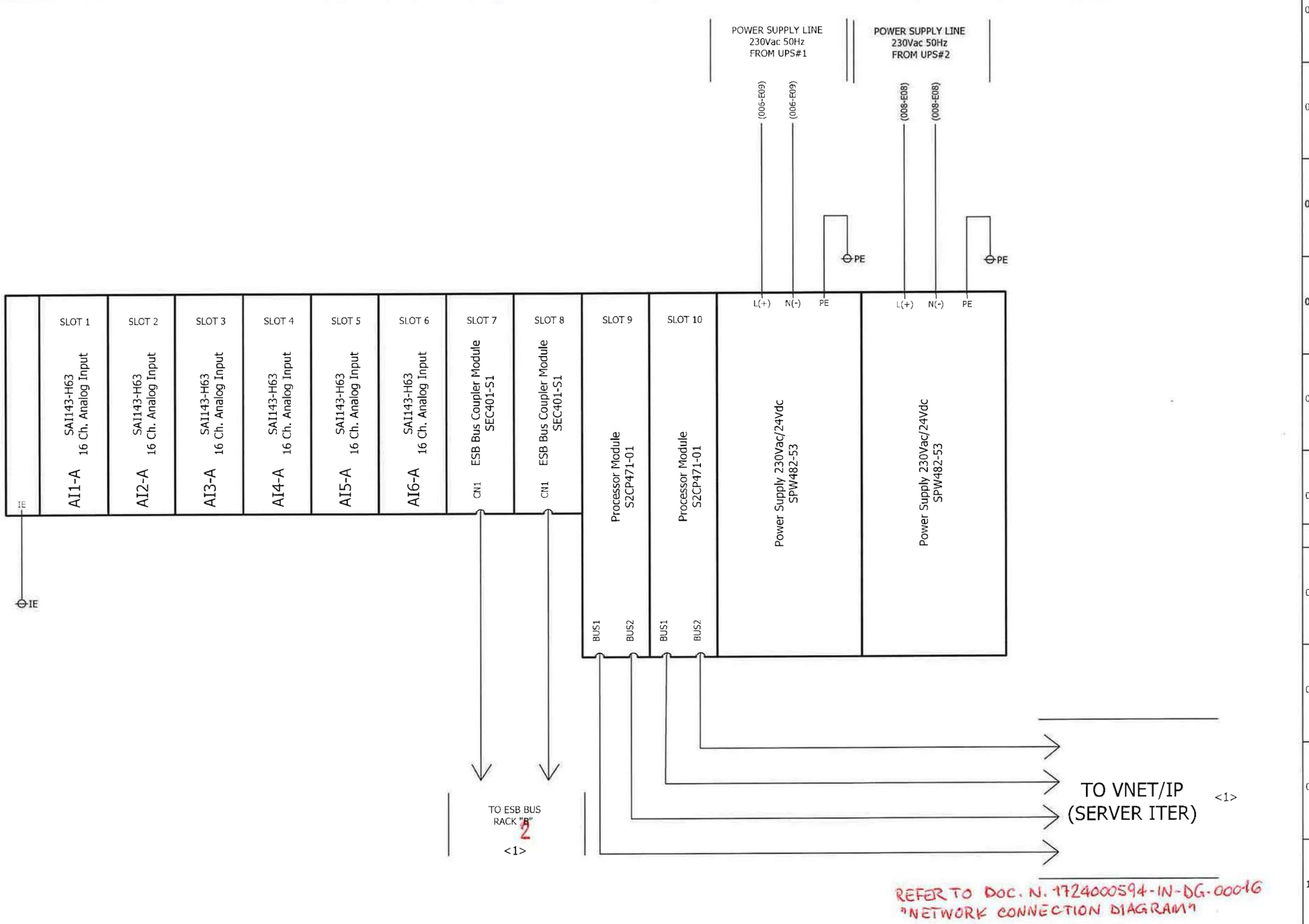
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 021

REV. 1

FGS PANEL - RACK "A" POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

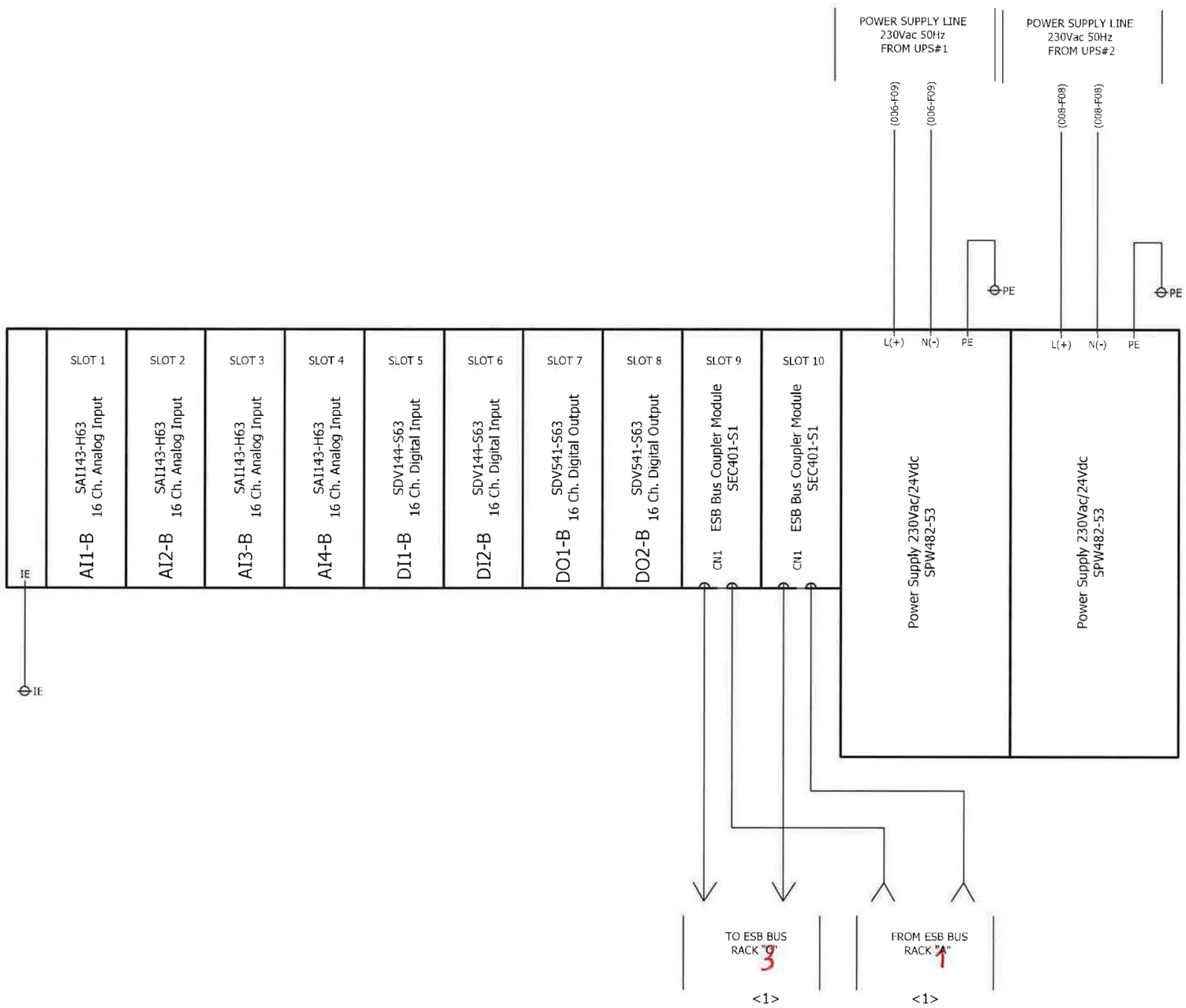
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 022

REV. 1

FGS PANEL - RACK "B" POWER DISTRIBUTION



1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

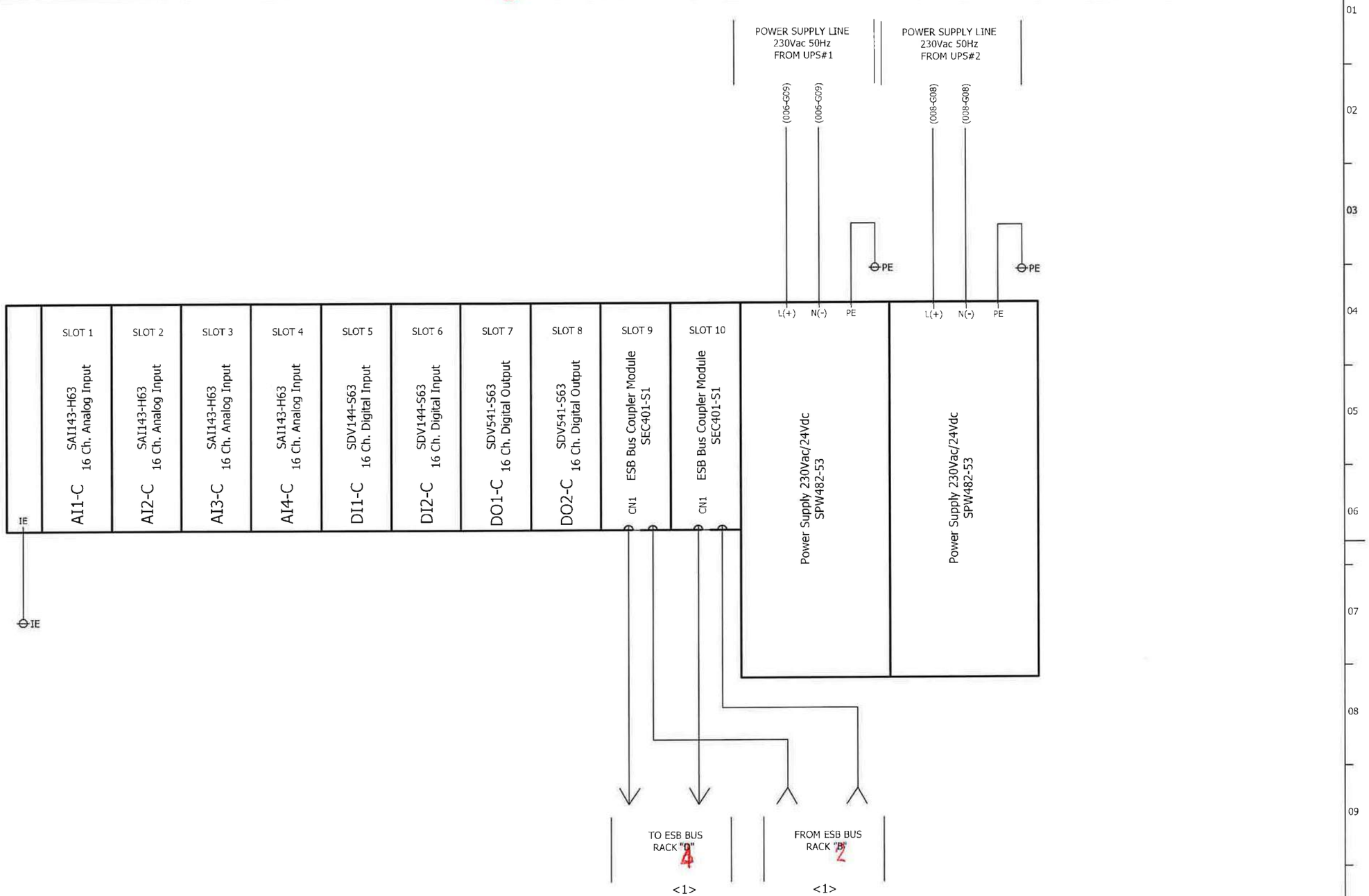
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 023

REV. 1

FGS PANEL - RACK "C" POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

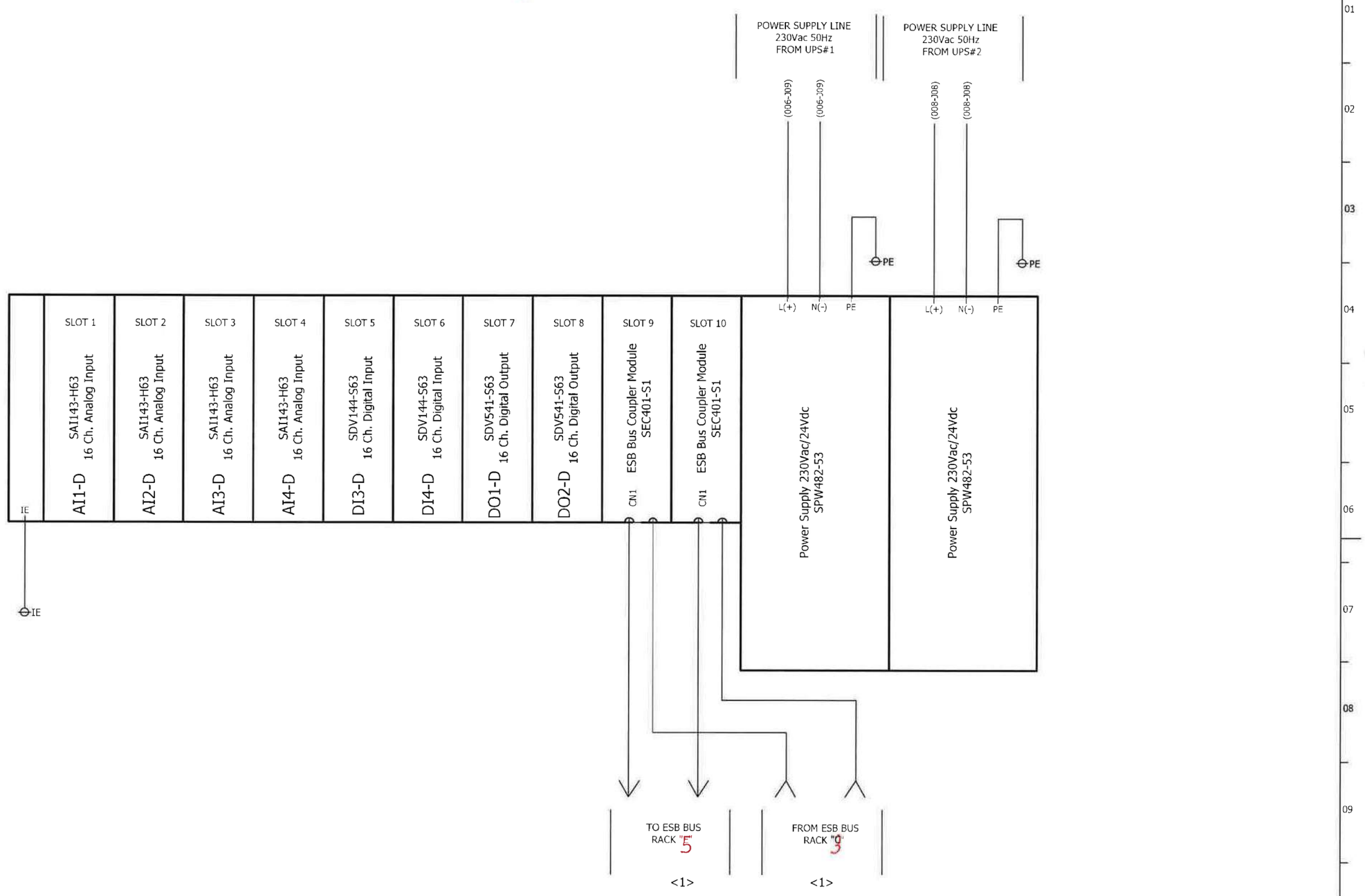
A3

DRAWING NO.
1724000594-IN-DG-00021

SHEET 024

REV. 1

FGS PANEL - RACK "4" POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

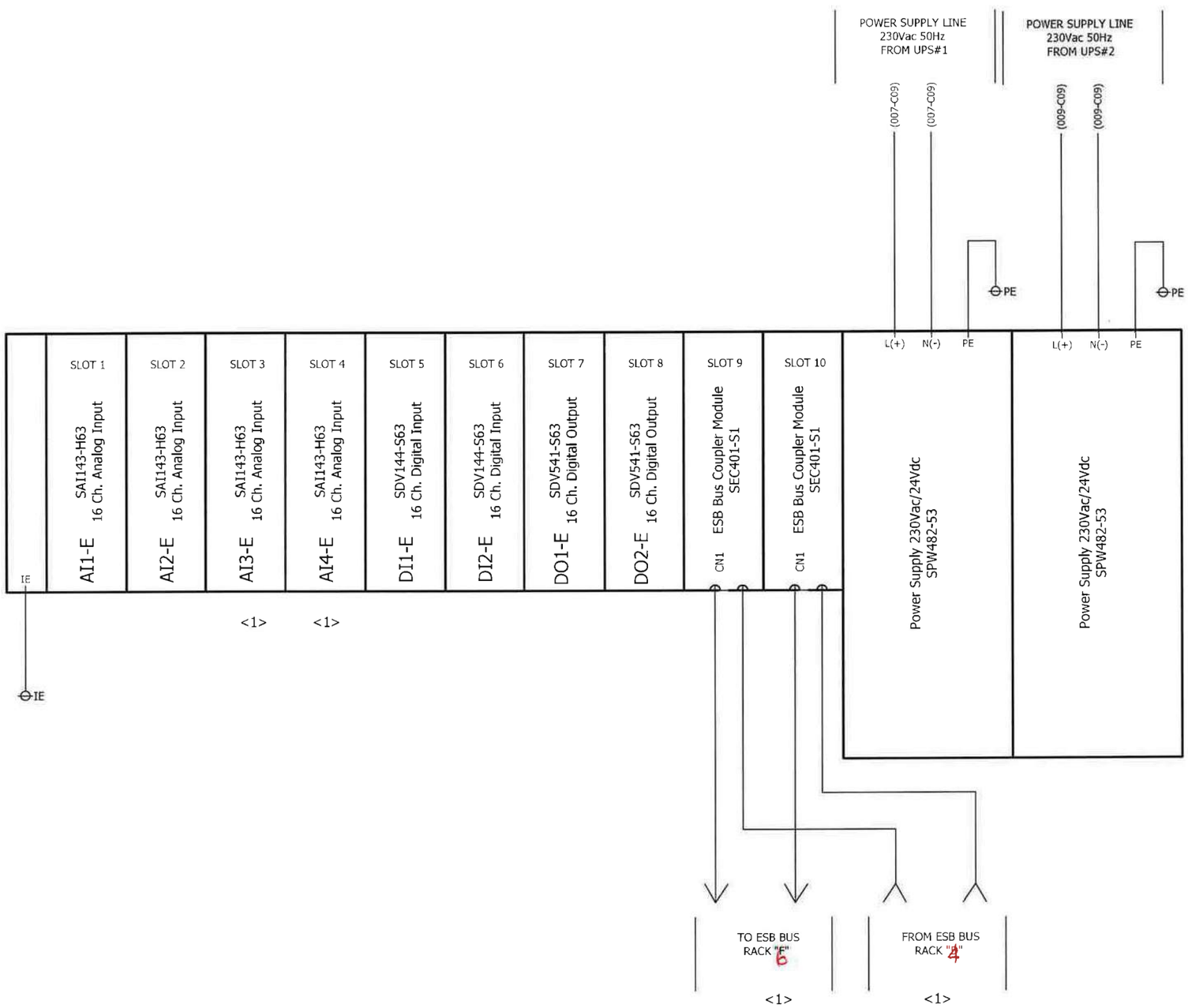
A3

DRAWING NO.
1724000594-IN-DG-00021

SHEET 025

REV. 1

FGS PANEL - RACK "E" POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - RACK "5" POWER DISTRIBUTION

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

SCALE : 1

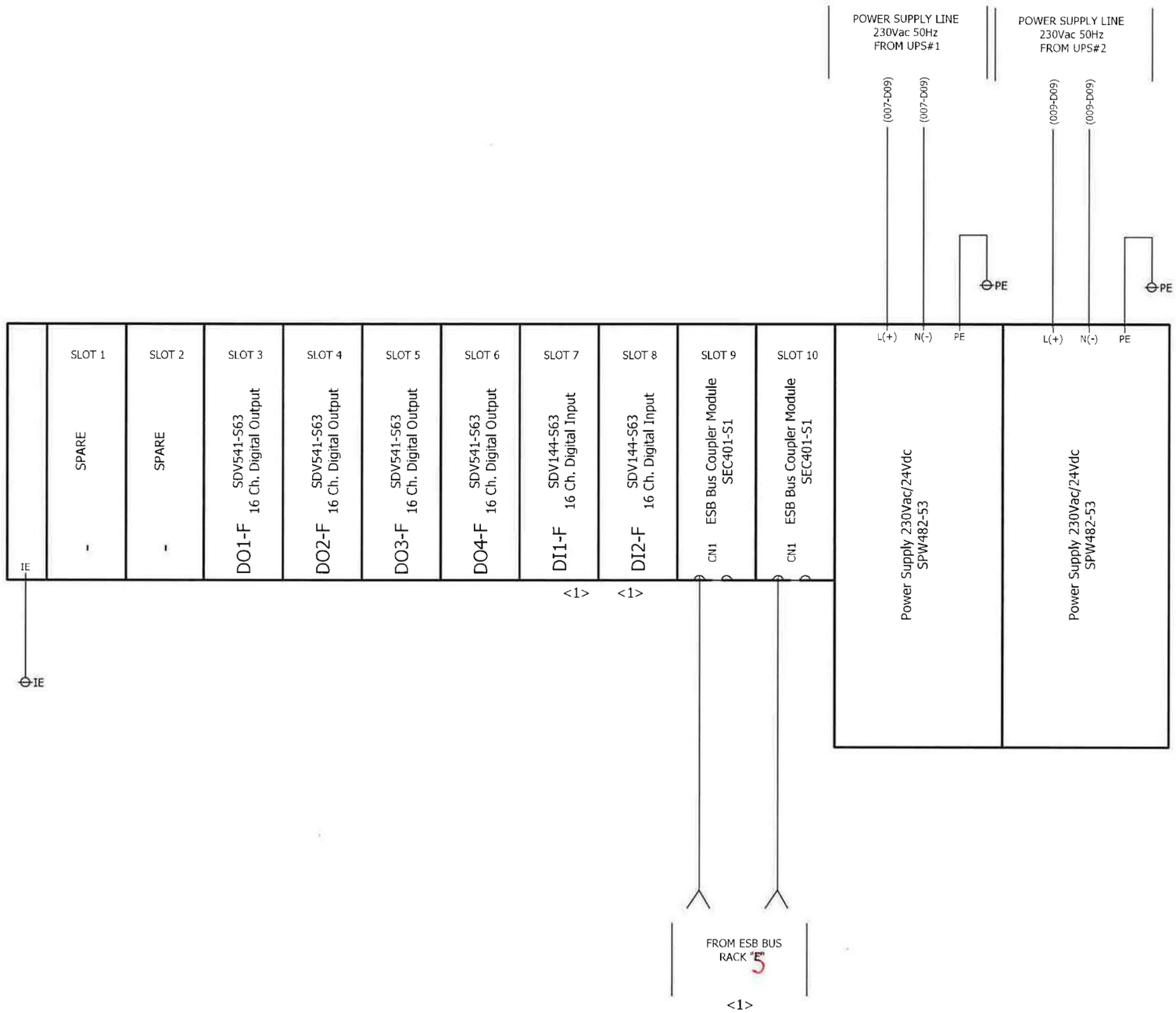
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 026

REV. 1

FGS PANEL - RACK "6" POWER DISTRIBUTION



1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - RACK "6" POWER DISTRIBUTION

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

SCALE : 1

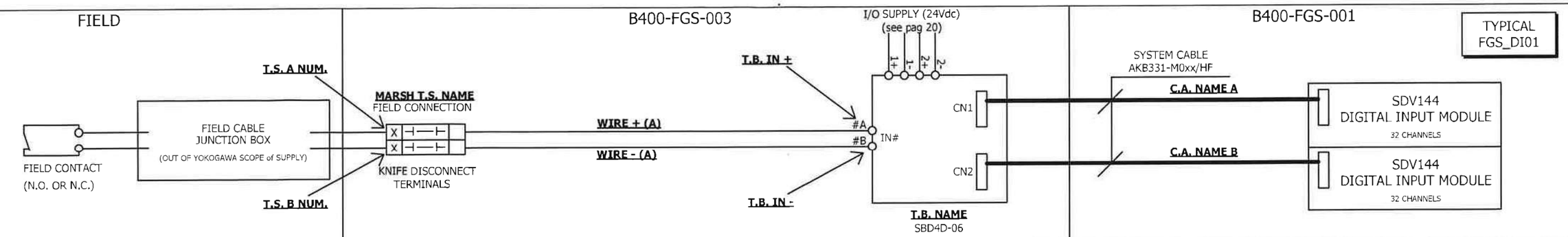
A3

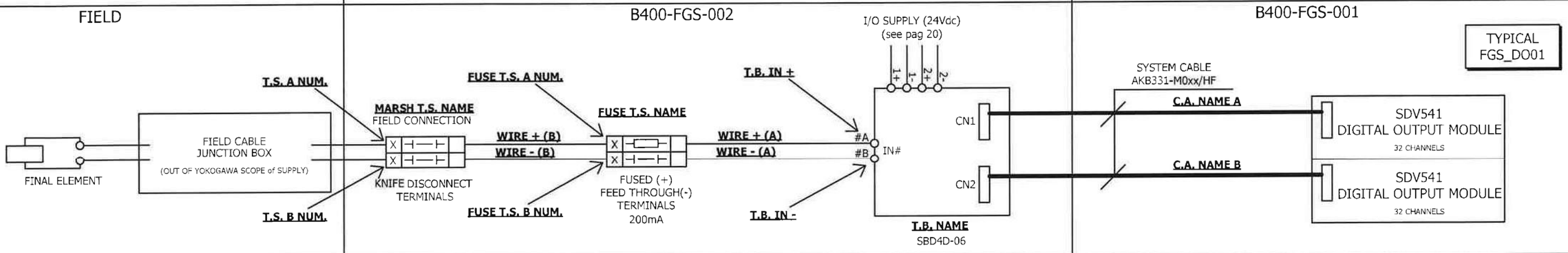
DRAWING NO. 1724000594-IN-DG-00021

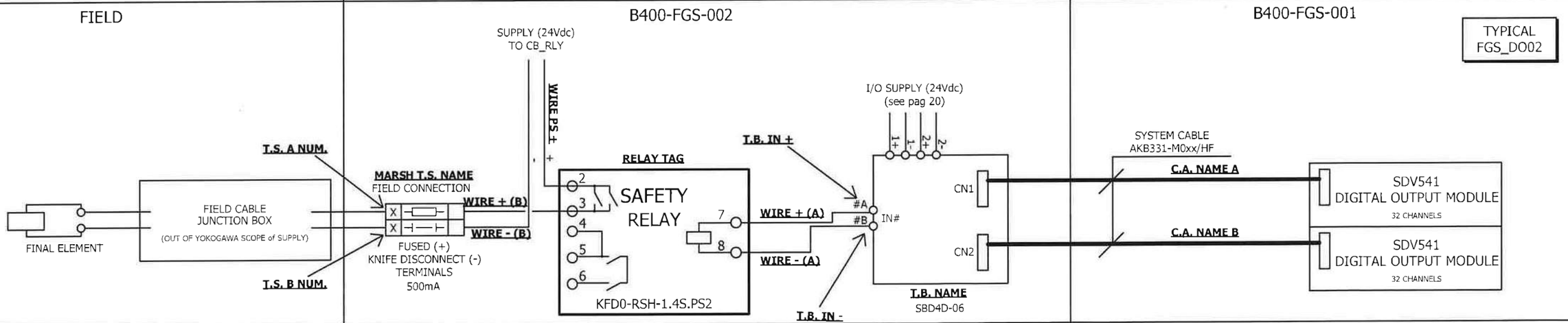
SHEET 027

REV. 1

FGS PANEL - TYPICAL WIRING DIGITAL INPUT/OUTPUT







REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00021

SHEET 028

REV. 1

FGS PANEL - TYPICAL WIRING ANALOG INPUT

FIELD

TX

TRANSMITTER 4-20mA
SINK TYPE

\+
\-

FIELD CABLE
JUNCTION BOX
(OUT OF YOKOGAWA SCOPE of SUPPLY)

T.S. A NUM.

T.S. B NUM.

B400-FGS-003

MARSH T.S. NAME
FIELD CONNECTION

KNIFE DISCONNECT
TERMINALS

WIRE + (A)

WIRE - (A)

T.B. IN +

T.B. IN -

BARRIER SWITCH CONFIG.			
S1	S2	S3	S4
OFF	OFF	ON	OFF

I/O SUPPLY (24Vdc)
(see page 20)

3+ 5+ 4- 6-

#1+
#5-
IN#

IS BARRIER
HiC2025

CN1
CN2

T.B. NAME
HiCTB16-YRS-RRB-KS-CC-AI16

B400-FGS-001

TYPICAL
FGS_AI02

SYSTEM CABLE
KS1-xx/HF

C.A. NAME A

C.A. NAME B

SAI143
ANALOG INPUT MODULE
16 CHANNELS

SAI143
ANALOG INPUT MODULE
16 CHANNELS

MODULE STRAPPING:
4-WIRE

FIELD

TX

TRANSMITTER 4-20mA
SOURCE TYPE

+24V
\+
\-

FIELD CABLE
JUNCTION BOX
(OUT OF YOKOGAWA SCOPE of SUPPLY)

T.S. A NUM.

T.S. B NUM.

T.S. C NUM.

B400-FGS-003

MARSH T.S. NAME
FIELD CONNECTION

FUSED (+)
KNIFE DISCONNECT (-)
TERMINALS
200mA

I/O SUPPLY (24Vdc)

WIRE PS +

to NEXT
CHANNEL

WIRE + (A)

WIRE - (A)

#A
#B
IN#

CN1
CN2

T.B. NAME
SBA4D-06

B400-FGS-001

TYPICAL
FGS_AI01

SYSTEM CABLE
KS1-xx/HF

C.A. NAME A

C.A. NAME B

SAI143
ANALOG INPUT MODULE
16 CHANNELS

SAI143
ANALOG INPUT MODULE
16 CHANNELS

MODULE STRAPPING:
4-WIRE

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - TYPICAL WIRING ANALOG INPUT

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 029

REV. 1

SHEET LEFT INTENTIONALLY BLANK

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 030

REV. 1

FGS PANEL - TB-950-JE-01103 + TB-950-JE-03103 + TB-950-JE-04102 + TB-950-JE-05102 + TB-950-JE-06102

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-MFA-01101	DI	TB-950-JE-01103	01	02	03101	03102	1mm²	BK	WH	TB-02-05	01A	01B	02	05	01	CA_02_05	CA_02_06	FGS_DI01
950-MFA-01102	DI	TB-950-JE-01103	03	04	03103	03104	1mm²	BK	WH	TB-02-05	02A	02B	02	05	02	CA_02_05	CA_02_06	FGS_DI01
950-MFA-01103	DI	TB-950-JE-01103	05	06	03105	03106	1mm²	BK	WH	TB-02-05	03A	03B	02	05	03	CA_02_05	CA_02_06	FGS_DI01
950-MFA-03101	DI	TB-950-JE-03103	01	02	03107	03108	1mm²	BK	WH	TB-02-05	04A	04B	02	05	04	CA_02_05	CA_02_06	FGS_DI01
950-MFA-03102	DI	TB-950-JE-03103	03	04	03109	03110	1mm²	BK	WH	TB-02-05	05A	05B	02	05	05	CA_02_05	CA_02_06	FGS_DI01
950-MFA-03103	DI	TB-950-JE-03103	05	06	03111	03112	1mm²	BK	WH	TB-02-05	06A	06B	02	05	06	CA_02_05	CA_02_06	FGS_DI01
950-MFA-03104	DI	TB-950-JE-03103	07	08	03113	03114	1mm²	BK	WH	TB-02-05	07A	07B	02	05	07	CA_02_05	CA_02_06	FGS_DI01
WS0110020508	DI	TB-950-JE-03103	09	10	03115	03116	1mm²	BK	WH	TB-02-05	08A	08B	02	05	08	CA_02_05	CA_02_06	FGS_DI01
WS0110020509	DI	TB-950-JE-03103	11	12	03117	03118	1mm²	BK	WH	TB-02-05	09A	09B	02	05	09	CA_02_05	CA_02_06	FGS_DI01
950-MFA-04101	DI	TB-950-JE-04102	01	02	03119	03120	1mm²	BK	WH	TB-03-05	01A	01B	03	05	01	CA_03_05	CA_03_06	FGS_DI01
950-MFA-04102	DI	TB-950-JE-04102	03	04	03121	03122	1mm²	BK	WH	TB-03-05	02A	02B	03	05	02	CA_03_05	CA_03_06	FGS_DI01
950-MFA-05101	DI	TB-950-JE-05102	01	02	03123	03124	1mm²	BK	WH	TB-03-05	03A	03B	03	05	03	CA_03_05	CA_03_06	FGS_DI01
950-MFA-05102	DI	TB-950-JE-05102	03	04	03125	03126	1mm²	BK	WH	TB-03-05	04A	04B	03	05	04	CA_03_05	CA_03_06	FGS_DI01
950-MFA-05103	DI	TB-950-JE-05102	05	06	03127	03128	1mm²	BK	WH	TB-03-05	05A	05B	03	05	05	CA_03_05	CA_03_06	FGS_DI01
950-MFA-05104	DI	TB-950-JE-05102	07	08	03129	03130	1mm²	BK	WH	TB-03-05	06A	06B	03	05	06	CA_03_05	CA_03_06	FGS_DI01
950-MFA-06101	DI	TB-950-JE-06102	01	02	03131	03132	1mm²	BK	WH	TB-03-05	07A	07B	03	05	07	CA_03_05	CA_03_06	FGS_DI01
950-MFA-06102	DI	TB-950-JE-06102	03	04	03133	03134	1mm²	BK	WH	TB-03-05	08A	08B	03	05	08	CA_03_05	CA_03_06	FGS_DI01
WS0110030509	DI	TB-950-JE-06102	05	06	03135	03136	1mm²	BK	WH	TB-03-05	09A	09B	03	05	09	CA_03_05	CA_03_06	FGS_DI01
WS0110030510	DI	TB-950-JE-06102	07	08	03137	03138	1mm²	BK	WH	TB-03-05	10A	10B	03	05	10	CA_03_05	CA_03_06	FGS_DI01

GENERAL COMMENT: INSERT ALL SPARE TERMINALS FOR NON-WIRED SPARES

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 031

REV. 1

FGS PANEL - TB-B400-FGS-002-1 + TB-B100-HSB-001 + TB-B200-HSB-001 + TB-B300-HSB-001 + TB-B400-HSB-001

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-MFA-02101	DI	TB-B400-FGS-002-1	01	02	03201	03202	1mm²	BK	WH	TB-04-05	01A	01B	04	05	01	CA_04_05	CA_04_06	FGS_DI01
950-MFA-04201	DI	TB-B400-FGS-002-1	03	04	03203	03204	1mm²	BK	WH	TB-04-05	02A	02B	04	05	02	CA_04_05	CA_04_06	FGS_DI01
950-MFA-04202	DI	TB-B400-FGS-002-1	05	06	03205	03206	1mm²	BK	WH	TB-04-05	03A	03B	04	05	03	CA_04_05	CA_04_06	FGS_DI01
950-MFA-04203	DI	TB-B400-FGS-002-1	07	08	03207	03208	1mm²	BK	WH	TB-04-05	04A	04B	04	05	04	CA_04_05	CA_04_06	FGS_DI01
950-MFA-05201	DI	TB-B400-FGS-002-1	09	10	03209	03210	1mm²	BK	WH	TB-04-05	05A	05B	04	05	05	CA_04_05	CA_04_06	FGS_DI01
950-MFA-06201	DI	TB-B400-FGS-002-1	11	12	03211	03212	1mm²	BK	WH	TB-04-05	06A	06B	04	05	06	CA_04_05	CA_04_06	FGS_DI01
950-MFA-07101	DI	TB-B400-FGS-002-1	13	14	03213	03214	1mm²	BK	WH	TB-04-05	07A	07B	04	05	07	CA_04_05	CA_04_06	FGS_DI01
77-ZSL-001	DI	TB-B100-HSB-001	01	02	03215	03216	1mm²	BK	WH	TB-05-03	01A	01B	05	03	01	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-002	DI	TB-B100-HSB-001	03	04	03217	03218	1mm²	BK	WH	TB-05-03	02A	02B	05	03	02	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-003	DI	TB-B100-HSB-001	05	06	03219	03220	1mm²	BK	WH	TB-05-03	03A	03B	05	03	03	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-004	DI	TB-B200-HSB-001	01	02	03221	03222	1mm²	BK	WH	TB-05-03	04A	04B	05	03	04	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-005	DI	TB-B200-HSB-001	03	04	03223	03224	1mm²	BK	WH	TB-05-03	05A	05B	05	03	05	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-006	DI	TB-B200-HSB-001	05	06	03225	03226	1mm²	BK	WH	TB-05-03	06A	06B	05	03	06	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-007	DI	TB-B300-HSB-001	01	02	03227	03228	1mm²	BK	WH	TB-05-03	07A	07B	05	03	07	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-008	DI	TB-B300-HSB-001	03	04	03229	03230	1mm²	BK	WH	TB-05-03	08A	08B	05	03	08	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-009	DI	TB-B300-HSB-001	05	06	03231	03232	1mm²	BK	WH	TB-06-07	01A	01B	06	07	01	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-010	DI	TB-B300-HSB-001	07	08	03233	03234	1mm²	BK	WH	TB-06-07	02A	02B	06	07	02	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-011	DI	TB-B300-HSB-001	09	10	03235	03236	1mm²	BK	WH	TB-06-07	03A	03B	06	07	03	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-012	DI	TB-B400-HSB-001	01	02	03237	03238	1mm²	BK	WH	TB-06-07	04A	04B	06	07	04	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-013	DI	TB-B400-HSB-001	03	04	03239	03240	1mm²	BK	WH	TB-06-07	05A	05B	06	07	05	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-014	DI	TB-B400-HSB-001	05	06	03241	03242	1mm²	BK	WH	TB-06-07	06A	06B	06	07	06	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-015	DI	TB-B400-HSB-001	07	08	03243	03244	1mm²	BK	WH	TB-06-07	07A	07B	06	07	07	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-016	DI	TB-B400-HSB-001	09	10	03245	03246	1mm²	BK	WH	TB-06-07	08A	08B	06	07	08	CA_06_07	CA_06_08	FGS_DI01

FOR SIGNALS: 70-XA-051 - 70-XA-052 - 70-XA-053 - 70-XA-054 SEE PAG 021

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 032

REV. 1

FGS PANEL - AT02 + TB-P320PLC + TB-20-UCP-001 + TB-80-UCP-001 + TB-50-LP-002

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
FGS001-UA-05	DI	~~AT02~~	~~01~~	~~02~~	03301	03302	1mm²	BK	WH	TB-02-05	10A	10B	02	05	10	CA_02_05	CA_02_06	FGS_DI01
85-XA-001	DI	TB-P320PLC	01	02	03303	03304	1mm²	BK	WH	TB-05-05	01A	01B	05	05	01	CA_05_05	CA_05_06	FGS_DI01
85-XA-002	DI	TB-P320PLC	03	04	03305	03306	1mm²	BK	WH	TB-05-05	02A	02B	05	05	02	CA_05_05	CA_05_06	FGS_DI01
20-XA-001	DI	TB-20-UCP-001	01	02	03307	03308	1mm²	BK	WH	TB-05-05	03A	03B	05	05	03	CA_05_05	CA_05_06	FGS_DI01
20-XA-002	DI	TB-20-UCP-001	03	04	03309	03310	1mm²	BK	WH	TB-05-05	04A	04B	05	05	04	CA_05_05	CA_05_06	FGS_DI01
80-XA-001	DI	TB-80-UCP-001	01	02	03311	03312	1mm²	BK	WH	TB-05-05	05A	05B	05	05	05	CA_05_05	CA_05_06	FGS_DI01
80-XA-002	DI	TB-80-UCP-001	03	04	03313	03314	1mm²	BK	WH	TB-05-05	06A	06B	05	05	06	CA_05_05	CA_05_06	FGS_DI01
50-XA-001	DI	TB-50-LP-002	01	02	03315	03316	1mm²	BK	WH	TB-05-05	07A	07B	05	05	07	CA_05_05	CA_05_06	FGS_DI01
50-XA-002	DI	TB-50-LP-002	03	04	03317	03318	1mm²	BK	WH	TB-05-05	08A	08B	05	05	08	CA_05_05	CA_05_06	FGS_DI01

INSERT SPARE TERMINALS

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 033

REV. 1

SHEET LEFT INTENTIONALLY BLANK

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 034

REV. 1

FGS PANEL - TB-950-JE-01104 + TB-950-JE-02104 + TB-950-JE-03104 + TB-950-JE-04103

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE + (B)	WIRE - (B)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A+B)	WIRE COLOUR - (A+B)	WIRE PS	FUSE T.S. NAME	FUSE T.S. A NUM.	FUSE T.S. B NUM.	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	RELAY TAG	TYPICAL
950-XZ-01101	DO	TB-950-JE-01104	01	02	03501	03502	03503	03504	N/A	1mm²	BK	WH	N/A	TS_02_07	1	2	TB-02-07	01A	01B	02	07	01	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-01102	DO	TB-950-JE-01104	03	04	03505	03506	03507	03508	N/A	1mm²	BK	WH	N/A	TS_02_07	3	4	TB-02-07	02A	02B	02	07	02	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-01101	DO	TB-950-JE-01104	05	06	03509	03510	03511	03512	N/A	1mm²	BK	WH	N/A	TS_02_07	5	6	TB-02-07	03A	03B	02	07	03	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-01102	DO	TB-950-JE-01104	07	08	03513	03514	03515	03516	N/A	1mm²	BK	WH	N/A	TS_02_07	7	8	TB-02-07	04A	04B	02	07	04	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-02101	DO	TB-950-JE-02104	01	02	03517	03518	03519	03520	N/A	1mm²	BK	WH	N/A	TS_02_07	9	10	TB-02-07	05A	05B	02	07	05	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-02101	DO	TB-950-JE-02104	03	04	03521	03522	03523	03524	N/A	1mm²	BK	WH	N/A	TS_02_07	11	12	TB-02-07	06A	06B	02	07	06	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-02102	DO	TB-950-JE-02104	05	06	03525	03526	03527	03528	N/A	1mm²	BK	WH	N/A	TS_02_07	13	14	TB-02-07	07A	07B	02	07	07	CA_02_07	CA_02_08	-	FGS_DO01
WS01700020714	DO	TB-950-JE-02104	07	08	03529	03530	03531	03532	N/A	1mm²	BK	WH	N/A	TS_02_07	15	16	TB-02-07	14A	14B	02	07	14	CA_02_07	CA_02_08	-	FGS_DO01
WS01700020715	DO	TB-950-JE-02104	09	10	03533	03534	03535	03536	N/A	1mm²	BK	WH	N/A	TS_02_07	17	18	TB-02-07	15A	15B	02	07	15	CA_02_07	CA_02_08	-	FGS_DO01
WS01700020716	DO	TB-950-JE-02104	11	12	03537	03538	03539	03540	N/A	1mm²	BK	WH	N/A	TS_02_07	19	20	TB-02-07	16A	16B	02	07	16	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-03101	DO	TB-950-JE-03104	01	02	03541	03542	03543	03544	N/A	1mm²	BK	WH	N/A	TS_02_07	21	22	TB-02-07	08A	08B	02	07	08	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-03102	DO	TB-950-JE-03104	03	04	03545	03546	03547	03548	N/A	1mm²	BK	WH	N/A	TS_02_07	23	24	TB-02-07	09A	09B	02	07	09	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-03101	DO	TB-950-JE-03104	05	06	03549	03550	03551	03552	N/A	1mm²	BK	WH	N/A	TS_02_07	25	26	TB-02-07	10A	10B	02	07	10	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-03102	DO	TB-950-JE-03104	07	08	03553	03554	03555	03556	N/A	1mm²	BK	WH	N/A	TS_02_07	27	28	TB-02-07	11A	11B	02	07	11	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-03103	DO	TB-950-JE-03104	09	10	03557	03558	03559	03560	N/A	1mm²	BK	WH	N/A	TS_02_07	29	30	TB-02-07	12A	12B	02	07	12	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-03104	DO	TB-950-JE-03104	11	12	03561	03562	03563	03564	N/A	1mm²	BK	WH	N/A	TS_02_07	31	32	TB-02-07	13A	13B	02	07	13	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-04101	DO	TB-950-JE-04103	01	02	03565	03566	03567	03568	N/A	1mm²	BK	WH	N/A	TS_03_07	1	2	TB-03-07	01A	01B	03	07	01	CA_03_07	CA_03_08	-	FGS_DO01
950-XZ-04102	DO	TB-950-JE-04103	03	04	03569	03570	03571	03572	N/A	1mm²	BK	WH	N/A	TS_03_07	3	4	TB-03-07	02A	02B	03	07	02	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04101	DO	TB-950-JE-04103	05	06	03573	03574	03575	03576	N/A	1mm²	BK	WH	N/A	TS_03_07	5	6	TB-03-07	03A	03B	03	07	03	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04102	DO	TB-950-JE-04103	07	08	03577	03578	03579	03580	N/A	1mm²	BK	WH	N/A	TS_03_07	7	8	TB-03-07	04A	04B	03	07	04	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04103	DO	TB-950-JE-04103	09	10	03581	03582	03583	03584	N/A	1mm²	BK	WH	N/A	TS_03_07	9	10	TB-03-07	05A	05B	03	07	05	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04104	DO	TB-950-JE-04103	11	12	03585	03586	03587	03588	N/A	1mm²	BK	WH	N/A	TS_03_07	11	12	TB-03-07	06A	06B	03	07	06	CA_03_07	CA_03_08	-	FGS_DO01

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL OUTPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 035

REV. 1

A B C D E F G H J K

FGS PANEL - TB-950-JE-04203 + TB-950-JE-04207 + TB-950-JE-05103

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE + (B)	WIRE - (B)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A+B)	WIRE COLOUR - (A+B)	WIRE PS COLOUR	FUSE T.S. NAME	FUSE T.S. A NUM.	FUSE T.S. B NUM.	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	RELAY TAG	TYPICAL
950-XZ-04203	DO	TB-950-JE-04203	01	02	03601	03602	03603	03604	N/A	1mm²	BK	WH	N/A	TS_03_07	13	14	TB-03-07	07A	07B	03	07	07	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04205	DO	TB-950-JE-04203	03	04	03605	03606	03607	03608	N/A	1mm²	BK	WH	N/A	TS_03_07	15	16	TB-03-07	08A	08B	03	07	08	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04206	DO	TB-950-JE-04203	05	06	03609	03610	03611	03612	N/A	1mm²	BK	WH	N/A	TS_03_07	17	18	TB-03-07	09A	09B	03	07	09	CA_04_07	CA_04_08	-	FGS_DO01
77-HY-004	DO	TB-950-JE-04203	07	08	03613	03614	03615	03616	03617	1mm²	BK	WH	RD	N/A			TB-03-07	11A	11B	03	07	11	CA_04_07	CA_04_08	KA2	FGS_DO02
77-HY-005	DO	TB-950-JE-04203	09	10	03618	03619	03620	03621	03622	1mm²	BK	WH	RD	N/A			TB-04-07	04A	04B	04	07	04	CA_04_07	CA_04_08	KA3	FGS_DO02
77-HY-006	DO	TB-950-JE-04203	11	12	03623	03624	03625	03626	03627	1mm²	BK	WH	RD	N/A			TB-04-07	05A	05B	04	07	05	CA_04_07	CA_04_08	KA4	FGS_DO02
950-XZ-04202	DO	TB-950-JE-04207	1	2	03628	03629	03630	03631	N/A	1mm²	BK	WH	N/A	TS_04_07	19	20	TB-04-07	01A	01B	04	07	01	CA_04_07	CA_04_08	-	FGS_DO01
950-XL-04203	DO	TB-950-JE-04207	3	4	03631	03632	03633	03634	N/A	1mm²	BK	WH	N/A	TS_04_07	21	22	TB-04-07	02A	02B	04	07	02	CA_04_07	CA_04_08	-	FGS_DO01
950-XL-04204	DO	TB-950-JE-04207	5	6	03634	03635	03636	03637	N/A	1mm²	BK	WH	N/A	TS_04_07	23	24	TB-04-07	03A	03B	04	07	03	CA_04_07	CA_04_08	-	FGS_DO01
77-HY-007	DO	TB-950-JE-04207	7	8	03638	03639	03640	03641	03642	1mm²	BK	WH	RD	N/A			TB-06-03	07A	07B	06	03	07	CA_06_05	CA_06_06	KA7	FGS_DO02
77-HY-008	DO	TB-950-JE-04207	9	10	03643	03644	03645	03646	03647	1mm²	BK	WH	RD	N/A			TB-06-03	08A	08B	06	03	08	CA_06_05	CA_06_06	KA8	FGS_DO02
77-HY-009	DO	TB-950-JE-04207	11	12	03648	03649	03650	03651	03652	1mm²	BK	WH	RD	N/A			TB-06-05	01A	01B	06	05	01	CA_06_05	CA_06_06	KA9	FGS_DO02
77-HY-010	DO	TB-950-JE-04207	13	14	03653	03654	03655	03656	03657	1mm²	BK	WH	RD	N/A			TB-06-05	02A	02B	06	05	02	CA_06_05	CA_06_06	KA10	FGS_DO02
77-HY-011	DO	TB-950-JE-04207	15	16	03658	03659	03660	03661	03662	1mm²	BK	WH	RD	N/A			TB-06-05	03A	03B	06	05	03	CA_06_05	CA_06_06	KA11	FGS_DO02
WS01_0060509	DO	TB-950-JE-04207	17	18	03663	03664	03665	03666	03667	1mm²	BK	WH	RD	N/A			TB-06-05	09A	09B	06	05	09	CA_06_05	CA_06_06	KA17	FGS_DO02
WS01_0060510	DO	TB-950-JE-04207	19	20	03668	03669	03670	03671	03672	1mm²	BK	WH	RD	N/A			TB-06-05	10A	10B	06	05	10	CA_06_05	CA_06_06	KA18	FGS_DO02
WS01_0030712	DO	TB-950-JE-04207	21	22	03673	03674	03675	03676	03677	1mm²	BK	WH	RD	N/A			TB-03-07	12A	12B	03	07	12	CA_04_07	CA_04_08	KA19	FGS_DO02
WS01_0030713	DO	TB-950-JE-04207	23	24	03678	03679	03680	03681	03682	1mm²	BK	WH	RD	N/A			TB-03-07	13A	13B	03	07	13	CA_04_07	CA_04_08	KA20	FGS_DO02
950-XZ-05101	DO	TB-950-JE-05103	01	02	03683	03684	03685	03686	N/A	1mm²	BK	WH	N/A	TS_04_07	1	2	TB-04-07	06A	06B	04	07	06	CA_04_07	CA_04_08		FGS_DO01
950-XZ-05102	DO	TB-950-JE-05103	03	04	03687	03688	03689	03690	N/A	1mm²	BK	WH	N/A	TS_04_07	3	4	TB-04-07	07A	07B	04	07	07	CA_04_07	CA_04_08		FGS_DO01
950-XZ-05103	DO	TB-950-JE-05103	05	06	03691	03692	03693	03694	N/A	1mm²	BK	WH	N/A	TS_04_07	5	6	TB-04-07	08A	08B	04	07	08	CA_04_07	CA_04_08		FGS_DO01
950-XZ-05104	DO	TB-950-JE-05103	07	08	03695	03696	03697	03698	N/A	1mm²	BK	WH	N/A	TS_04_07	7	8	TB-04-07	09A	09B	04	07	09	CA_04_07	CA_04_08	-	FGS_DO01

INSERT SPARE TERMINALS

01 02 03 04 05 06 07 08 09 10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL OUTPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 036

REV. 1

A | B | C | D | E | F | G | H | J | K

FGS PANEL - TB-950-JE-05104 + TB-950-JE-06103 + TB-950-JE-06203 + TB-950-JE-07101

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE + (B)	WIRE - (B)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A+B)	WIRE COLOUR - (A+B)	WIRE PS COLOUR	FUSE T.S. NAME	FUSE T.S. A NUM.	FUSE T.S. B NUM.	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	RELAY TAG	TYPICAL
950-XZ-05201	DO	TB-950-JE-05104	01	02	03701	03702	03703	03704	N/A	1mm²	BK	WH	N/A	TS_04_07	9	10	TB-04-07	10A	10B	04	07	10	CA_04_07	CA_04_08	-	FGS_DO01
950-XL-05201	DO	TB-950-JE-05104	03	04	03705	03706	03707	03708	N/A	1mm²	BK	WH	N/A	TS_04_07	11	12	TB-04-07	11A	11B	04	07	11	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-05202	DO	TB-950-JE-05104	05	06	03709	03710	03711	03712	N/A	1mm²	BK	WH	N/A	TS_04_07	13	14	TB-04-07	12A	12B	04	07	12	CA_05_07	CA_05_08	-	FGS_DO01
WS01[illegible]0040713	DO	TB-950-JE-05104	07	08	03713	03714	03715	03716	N/A	1mm²	BK	WH	N/A	TS_04_07	15	16	TB-04-07	13A	13B	04	07	13	CA_05_07	CA_05_08	-	FGS_DO01
WS01[illegible]0040714	DO	TB-950-JE-05104	09	10	03717	03718	03719	03720	N/A	1mm²	BK	WH	N/A	TS_04_07	17	18	TB-04-07	14A	14B	04	07	14	CA_05_07	CA_05_08	-	FGS_DO01
950-XZ-06101	DO	TB-950-JE-06103	01	02	03721	03722	03723	03724	N/A	1mm²	BK	WH	N/A	TS_05_07	1	2	TB-05-07	01A	01B	05	07	01	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-06101	DO	TB-950-JE-06103	03	04	03725	03726	03727	03728	N/A	1mm²	BK	WH	N/A	TS_05_07	3	4	TB-05-07	02A	02B	05	07	02	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-06102	DO	TB-950-JE-06103	05	06	03729	03730	03731	03732	N/A	1mm²	BK	WH	N/A	TS_05_07	5	6	TB-05-07	03A	03B	05	07	03	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-06103	DO	TB-950-JE-06103	07	08	03733	03734	03735	03736	N/A	1mm²	BK	WH	N/A	TS_05_07	7	8	TB-05-07	04A	04B	05	07	04	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-06104	DO	TB-950-JE-06103	09	10	03737	03738	03739	03740	N/A	1mm²	BK	WH	N/A	TS_05_07	9	10	TB-05-07	05A	05B	05	07	05	CA_06_05	CA_06_06	-	FGS_DO01
WS01[illegible]0050711	DO	TB-950-JE-06103	11	12	03741	03742	03743	03744	N/A	1mm²	BK	WH	N/A	TS_05_07	11	12	TB-05-07	11A	11B	05	07	11	CA_06_05	CA_06_06	-	FGS_DO01
950-XZ-06201	DO	TB-950-JE-06203	01	02	03745	03746	03747	03748	N/A	1mm²	BK	WH	N/A	TS_05_07	13	14	TB-05-07	06A	06B	05	07	06	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-06201	DO	TB-950-JE-06203	03	04	03749	03750	03751	03752	N/A	1mm²	BK	WH	N/A	TS_05_07	15	16	TB-05-07	07A	07B	05	07	07	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-06202	DO	TB-950-JE-06203	05	06	03753	03754	03755	03756	N/A	1mm²	BK	WH	N/A	TS_05_07	17	18	TB-05-07	08A	08B	05	07	08	CA_05_07	CA_05_08	-	FGS_DO01
77-HY-001	DO	TB-950-JE-06203	07	08	03757	03758	03759	03760	03761	1mm²	BK	WH	RD	N/A			TB-05-07	09A	09B	05	07	09	CA_05_07	CA_05_08	KA5	FGS_DO02
77-HY-002	DO	TB-950-JE-06203	09	10	03762	03763	03764	03765	03766	1mm²	BK	WH	RD	N/A			TB-05-07	10A	10B	05	07	10	CA_05_07	CA_05_08	KA6	FGS_DO02
77-HY-003	DO	TB-950-JE-06203	11	12	03767	03768	03769	03770	03771	1mm²	BK	WH	RD	N/A			TB-03-07	10A	10B	03	07	10	CA_03_07	CA_03_08	KA1	FGS_DO02
950-XZ-07101	DO	TB-950-JE-07101	01	02	03772	03773	03774	03775	N/A	1mm²	BK	WH	N/A	TS_06_03	1	2	TB-06-03	01A	01B	06	03	01	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-07101	DO	TB-950-JE-07101	03	04	03776	03777	03778	03779	N/A	1mm²	BK	WH	N/A	TS_06_03	3	4	TB-06-03	02A	02B	06	03	02	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-07102	DO	TB-950-JE-07101	05	06	03780	03781	03782	03783	N/A	1mm²	BK	WH	N/A	TS_06_03	5	6	TB-06-03	03A	03B	06	03	03	CA_06_03	CA_06_04	-	FGS_DO01
WS01[illegible]0050712	DO	TB-950-JE-07101	07	08	03784	03785	03786	03787	N/A	1mm²	BK	WH	N/A	TS_05_07	19	20	TB-05-07	12A	12B	05	07	12	CA_05_07	CA_05_08	-	FGS_DO01
WS01[illegible]0060310	DO	TB-950-JE-07101	09	10	03788	03789	03790	03791	N/A	1mm²	BK	WH	N/A	TS_06_03	7	8	TB-06-03	10A	10B	06	03	10	CA_06_03	CA_06_04	-	FGS_DO01
WS01[illegible]0060311	DO	TB-950-JE-07101	11	12	03792	03793	03794	03795	N/A	1mm²	BK	WH	N/A	TS_06_03	9	10	TB-06-03	11A	11B	06	03	11	CA_06_03	CA_06_04	-	FGS_DO01

INSERT SPARE TERMINALS

01 02 03 04 05 06 07 08 09 10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL OUTPUT SIGNALS

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

A3 | DRAWING NO. 1724000594-IN-DG-00021 | SHEET 037 | REV. 1

FGS PANEL - TB-B400-FGS-002-4 + TB-B400-FGS-002-5 + TB-B400-FGS-002-6 + TB-NC-200F2.01 + TB-NC-200F2.02

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S.B NUM.	WIRE + (A)	WIRE - (A)	WIRE + (B)	WIRE - (B)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A+B)	WIRE COLOUR - (A+B)	WIRE PS COLOUR	FUSE T.S. NAME	FUSE T.S. A NUM.	FUSE T.S. B NUM.	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	RELAY TAG	TYPICAL
77-HY-015	DO	TB-B400-FGS-002-4	01	02	03801	03802	03803	03804	03805	1mm²	BK	WH	RD	N/A			TB-06-05	07A	07B	06	05	07	CA_06_05	CA_06_06	KA15	FGS_DO02
77-HY-016	DO	TB-B400-FGS-002-4	03	04	03806	03807	03808	03809	03810	1mm²	BK	WH	RD	N/A			TB-06-05	08A	08B	06	05	08	CA_06_05	CA_06_06	KA16	FGS_DO02
77-HY-012	DO	TB-B400-FGS-002-5	01	02	03811	03812	03813	03814	03815	1mm²	BK	WH	RD	N/A			TB-06-05	04A	04B	06	05	04	CA_06_05	CA_06_06	KA12	FGS_DO02
77-HY-013	DO	TB-B400-FGS-002-5	03	04	03816	03817	03818	03819	03820	1mm²	BK	WH	RD	N/A			TB-06-05	05A	05B	06	05	05	CA_06_05	CA_06_06	KA13	FGS_DO02
77-HY-014	DO	TB-B400-FGS-002-5	05	06	03821	03822	03823	03824	03825	1mm²	BK	WH	RD	N/A			TB-06-05	06A	06B	06	05	06	CA_06_05	CA_06_06	KA14	FGS_DO02
950-XZ-04201	DO	TB-B400-FGS-002-6	01	02	03826	03827	03828	03829	N/A	1mm²	BK	WH	N/A	TS_06_03	11	12	TB-06-03	04A	04B	06	03	04	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-04201	DO	TB-B400-FGS-002-6	03	04	03830	03831	03832	03833	N/A	1mm²	BK	WH	N/A	TS_06_03	13	14	TB-06-03	05A	05B	06	03	05	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-04202	DO	TB-B400-FGS-002-6	05	06	03834	03835	03836	03837	N/A	1mm²	BK	WH	N/A	TS_06_03	15	16	TB-06-03	06A	06B	06	03	06	CA_06_03	CA_06_04	-	FGS_DO01
72-XS-001	DO	TB-NC-200F2.01	01	02	03838	03839	03840	03841	N/A	1mm²	BK	WH	N/A	TS_06_03	17	18	TB-06-03	09A	09B	06	03	09	CA_06_03	CA_06_04	-	FGS_DO01
72-XS-002	DO	TB-NC-200F2.01	03	04	03842	03843	03844	03845	N/A	1mm²	BK	WH	N/A	TS_06_05	19	20	TB-06-05	11A	11B	06	05	11	CA_06_05	CA_06_06	-	FGS_DO01

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00 DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL OUTPUT SIGNALS

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

A3 | DRAWING NO. 1724000594-IN-DG-00021 | SHEET 038 | REV. 1

SHEET LEFT INTENTIONALLY BLANK

1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00021

SHEET 039

REV. 1

FGS PANEL - TB-950-JE-01101 + TB-950-JE-01102 + TB-950-JE-02101

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR +(A)	WIRE COLOUR -(B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-FDZ-01101	AI	TB-950-JE-01101	01	02	03	04001	04002	04003	1mm²	BK	WH	RD	TB-02-01	05A	05B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-FDZ-01102	AI	TB-950-JE-01101	04	05	06	04004	04005	04006	1mm²	BK	WH	RD	TB-02-03	05A	05B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-FDZ-01103	AI	TB-950-JE-01101	07	08	09	04007	04008	04009	1mm²	BK	WH	RD	TB-03-01	05A	05B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-FDZ-01104	AI	TB-950-JE-01101	10	11	12	04010	04011	04012	1mm²	BK	WH	RD	TB-03-03	05A	05B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
WS0110020112	AI	TB-950-JE-01101	13	14	15	04013	04014	04015	1mm²	BK	WH	RD	TB-02-01	12A	12B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-01101	AI	TB-950-JE-01102	1	2	3	04016	04017	04018	1mm²	BK	WH	RD	TB-02-01	11A	11B	1	2	3	CA_1_2	CA_1_03	FGS_AI01
950-GDZ-01102	AI	TB-950-JE-01102	4	5	6	04019	04020	04021	1mm²	BK	WH	RD	TB-02-03	13A	13B	4	5	6	CA_4_5	CA_4_06	FGS_AI01
950-GDZ-01103	AI	TB-950-JE-01102	7	8	9	04022	04023	04024	1mm²	BK	WH	RD	TB-04-01	16A	16B	7	8	9	CA_7_8	CA_7_09	FGS_AI01
WS0110020113	AI	TB-950-JE-01102	10	11	12	04025	04026	04027	1mm²	BK	WH	RD	TB-02-01	13A	13B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
WS0110020315	AI	TB-950-JE-01102	13	14	15	04028	04029	04030	1mm²	BK	WH	RD	TB-02-03	15A	15B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-FDZ-02101	AI	TB-950-JE-02101	01	02	03	04031	04032	04033	1mm²	BK	WH	RD	TB-02-01	04A	04B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-FDZ-02102	AI	TB-950-JE-02101	04	05	06	04034	04035	04036	1mm²	BK	WH	RD	TB-02-03	04A	04B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-FDZ-02103	AI	TB-950-JE-02101	07	08	09	04037	04038	04039	1mm²	BK	WH	RD	TB-03-01	04A	04B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-FDZ-02104	AI	TB-950-JE-02101	10	11	12	04040	04041	04042	1mm²	BK	WH	RD	TB-03-03	04A	04B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-02101	AI	TB-950-JE-02101	13	14	15	04043	04044	04045	1mm²	BK	WH	RD	TB-02-01	01A	01B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-02102	AI	TB-950-JE-02101	16	17	18	04046	04047	04048	1mm²	BK	WH	RD	TB-02-01	02A	02B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-02103	AI	TB-950-JE-02101	19	20	21	04049	04050	04051	1mm²	BK	WH	RD	TB-02-01	03A	03B	19	20	21	CA_19_20	CA_19_021	FGS_AI01
950-GDZ-02104	AI	TB-950-JE-02101	22	23	24	04052	04053	04054	1mm²	BK	WH	RD	TB-02-03	01A	01B	22	23	24	CA_22_23	CA_22_024	FGS_AI01
950-GDZ-02105	AI	TB-950-JE-02101	25	26	27	04055	04056	04057	1mm²	BK	WH	RD	TB-02-03	02A	02B	25	26	27	CA_25_26	CA_25_027	FGS_AI01
950-GDZ-02106	AI	TB-950-JE-02101	28	29	30	04058	04059	04060	1mm²	BK	WH	RD	TB-02-03	03A	03B	28	29	30	CA_28_29	CA_28_030	FGS_AI01
WS0110020316	AI	TB-950-JE-02101	31	32	33	04061	04062	04063	1mm²	BK	WH	RD	TB-02-03	16A	16B	31	32	33	CA_31_32	CA_31_033	FGS_AI01
WS0110030114	AI	TB-950-JE-02101	34	35	36	04064	04065	04066	1mm²	BK	WH	RD	TB-03-01	14A	14B	34	35	36	CA_34_35	CA_34_036	FGS_AI01

~~FOR SIGNALS: 950-GDZ-01101-PS, 950-GDZ-01102-PS, 950-GDZ-01103-PS SEE PAG 021~~

IN SECT SPARE TERMINALS

TO REPLACE WITH RIGHT ASSIGNMENT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 040

REV. 1

FGS PANEL - TB-950-JE-02102 + TB-950-JE-03101 + TB-950-JE-02103

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A)	WIRE COLOUR - (B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-GDZ-02107	AI	TB-950-JE-02102	01	02	03	04101	04102	04103	1mm²	BK	WH	RD	TB-03-01	01A	01B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-02108	AI	TB-950-JE-02102	04	05	06	04104	04105	04106	1mm²	BK	WH	RD	TB-03-01	02A	02B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-02109	AI	TB-950-JE-02102	07	08	09	04107	04108	04109	1mm²	BK	WH	RD	TB-03-01	03A	03B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-02110	AI	TB-950-JE-02102	10	11	12	04110	04111	04112	1mm²	BK	WH	RD	TB-03-03	01A	01B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-02111	AI	TB-950-JE-02102	13	14	15	04113	04114	04115	1mm²	BK	WH	RD	TB-03-03	02A	02B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-02112	AI	TB-950-JE-02102	16	17	18	04116	04117	04118	1mm²	BK	WH	RD	TB-03-03	03A	03B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-02113	AI	TB-950-JE-02102	19	20	21	04119	04120	04121	1mm²	BK	WH	RD	TB-04-01	01A	01B	19	20	21	CA_19_20	CA_19_021	FGS_AI01
950-GDZ-02114	AI	TB-950-JE-02102	22	23	24	04122	04123	04124	1mm²	BK	WH	RD	TB-04-01	02A	02B	22	23	24	CA_22_23	CA_22_024	FGS_AI01
950-GDZ-02115	AI	TB-950-JE-02102	25	26	27	04125	04126	04127	1mm²	BK	WH	RD	TB-04-01	03A	03B	25	26	27	CA_25_26	CA_25_027	FGS_AI01
950-GDZ-02116	AI	TB-950-JE-02102	28	29	30	04128	04129	04130	1mm²	BK	WH	RD	TB-04-03	01A	01B	28	29	30	CA_28_29	CA_28_030	FGS_AI01
WS0120040113	AI	TB-950-JE-02102	31	32	33	04131	04132	04133	1mm²	BK	WH	RD	TB-04-01	13A	13B	31	32	33	CA_31_32	CA_31_033	FGS_AI01
WS0120040314	AI	TB-950-JE-02102	34	35	36	04134	04135	04136	1mm²	BK	WH	RD	TB-04-03	14A	14B	34	35	36	CA_34_35	CA_34_036	FGS_AI01
~~950-FDZ-03101~~	~~AI~~	~~TB-950-JE-03101~~	~~01~~	~~02~~	~~03~~	~~04137~~	~~04138~~	~~04139~~	~~1mm²~~	~~BK~~	~~WH~~	~~RD~~	~~TB-02-01~~	~~07A~~	~~07B~~	~~01~~	~~02~~	~~03~~	~~CA_01_02~~	~~CA_01_03~~	~~FGS_AI01~~
950-GDZ-02117	AI	TB-950-JE-02103	1	2	3	04140	04141	04142	1mm²	BK	WH	RD	TB-04-03	02A	02B	1	2	3	CA_1_2	CA_1_03	FGS_AI01
950-GDZ-02118	AI	TB-950-JE-02103	4	5	6	04143	04144	04145	1mm²	BK	WH	RD	TB-04-03	03A	03B	4	5	6	CA_4_5	CA_4_06	FGS_AI01
950-GDZ-02119	AI	TB-950-JE-02103	7	8	9	04146	04147	04148	1mm²	BK	WH	RD	TB-05-01	01A	01B	7	8	9	CA_7_8	CA_7_09	FGS_AI01
950-GDZ-02120	AI	TB-950-JE-02103	10	11	12	04149	04150	04151	1mm²	BK	WH	RD	TB-05-01	02A	02B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
WS0120040315	AI	TB-950-JE-02103	13	14	15	04152	04153	04154	1mm²	BK	WH	RD	TB-04-03	15A	15B	13	14	15	CA_13_14	CA_13_015	FGS_AI01

~~FOR SIGNALS: 950-GDZ-02117-PS, 950-GDZ-02118-PS, 950-GDZ-02119-PS, 950-GDZ-02120-PS SEE PAG 021~~

DUPLICATED!

REPLACE WITH RIGHT ASSIGNMENT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

A3 | DRAWING NO. 1724000594-IN-DG-00021 | SHEET 041 | REV. 1

FGS PANEL - TB-950-JE-03101 + TB-950-JE-03102 + TB-950-JE-04101

950-GDZ-03105

	TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A)	WIRE COLOUR - (B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
GDZ	950-~~FDZ~~-03101	AI	TB-950-JE-03101	01	02	03	04201	04202	04203	1mm²	BK	WH	RD	TB-02-01	07A	07B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
GDZ	950-~~FDZ~~-03102	AI	TB-950-JE-03101	04	05	06	04204	04205	04206	1mm²	BK	WH	RD	TB-02-03	07A	07B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
GDZ	950-~~FDZ~~-03103	AI	TB-950-JE-03101	07	08	09	04207	04208	04209	1mm²	BK	WH	RD	TB-03-01	07A	07B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
GDZ	950-~~FDZ~~-03104	AI	TB-950-JE-03101	10	11	12	04210	04211	04212	1mm²	BK	WH	RD	TB-03-03	07A	07B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
	950-GDZ-03107	AI	TB-950-JE-03101	13	14	15	04213	04214	04215	1mm²	BK	WH	RD	TB-02-01	08A	08B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
	950-GDZ-03108	AI	TB-950-JE-03101	16	17	18	04216	04217	04218	1mm²	BK	WH	RD	TB-02-03	08A	08B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
	950-GDZ-03109	AI	TB-950-JE-03101	19	20	21	04219	04220	04221	1mm²	BK	WH	RD	TB-03-01	08A	08B	19	20	21	CA_19_20	CA_19_021	FGS_AI01
	~~WS0110020114~~	AI	TB-950-JE-03101	22	23	24	04222	04223	04224	1mm²	BK	WH	RD	TB-02-01	14A	14B	22	23	24	CA_22_23	CA_22_024	FGS_AI01
	WS0120020115	AI	TB-950-JE-03101	25	26	27	04225	04226	04227	1mm²	BK	WH	RD	TB-02-01	15A	15B	25	26	27	CA_25_26	CA_25_027	FGS_AI01
	WS0120030115	AI	TB-950-JE-03101	28	29	30	04228	04229	04230	1mm²	BK	WH	RD	TB-03-01	15A	15B	28	29	30	CA_28_29	CA_28_030	FGS_AI01
	WS0120030116	AI	TB-950-JE-03101	31	32	33	04231	04232	04233	1mm²	BK	WH	RD	TB-03-01	16A	16B	31	32	33	CA_31_32	CA_31_033	FGS_AI01
	WS0120030311	AI	TB-950-JE-03101	34	35	36	04234	04235	04236	1mm²	BK	WH	RD	TB-03-03	11A	11B	34	35	36	CA_34_35	CA_34_036	FGS_AI01
FDZ	950-~~GDZ~~-03101	AI	TB-950-JE-03102	1	2	3	04237	04238	04239	1mm²	BK	WH	RD	TB-03-01	13A	13B	1	2	3	CA_1_2	CA_1_03	FGS_AI01
FDZ	950-~~GDZ~~-03102	AI	TB-950-JE-03102	4	5	6	04240	04241	04242	1mm²	BK	WH	RD	TB-03-03	08A	08B	4	5	6	CA_4_5	CA_4_06	FGS_AI01
FDZ	950-~~GDZ~~-03103	AI	TB-950-JE-03102	7	8	9	04243	04244	04245	1mm²	BK	WH	RD	TB-04-01	08A	08B	7	8	9	CA_7_8	CA_7_09	FGS_AI01
FDZ	950-~~GDZ~~-03104	AI	TB-950-JE-03102	10	11	12	04246	04247	04248	1mm²	BK	WH	RD	TB-04-03	08A	08B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
	~~950-GDZ-03105~~	AI	TB-950-JE-03102	13	14	15	04249	04250	04251	1mm²	BK	WH	RD	TB-05-01	08A	08B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
	WS0120030312	AI	TB-950-JE-03102	16	17	18	04252	04253	04254	1mm²	BK	WH	RD	TB-03-03	12A	12B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
	950-FDZ-04101	AI	TB-950-JE-04101	01	02	03	04255	04256	04257	1mm²	BK	WH	RD	TB-02-01	06A	06B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
	950-FDZ-04102	AI	TB-950-JE-04101	04	05	06	04258	04259	04260	1mm²	BK	WH	RD	TB-02-03	06A	06B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
	950-FDZ-04103	AI	TB-950-JE-04101	07	08	09	04261	04262	04263	1mm²	BK	WH	RD	TB-03-01	06A	06B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
	950-FDZ-04104	AI	TB-950-JE-04101	10	11	12	04264	04265	04266	1mm²	BK	WH	RD	TB-03-03	06A	06B	10	11	12	CA_10_11	CA_10_012	FGS_AI01

FOR SIGNALS: 950-GDZ-03101-PS, 950-GDZ-03102-PS, 950-GDZ-03103-PS, 950-GDZ-03104-PS, 950-GDZ-03105-PS SEE PAG 021

WIRED SPARE (WS0120020114)

REPLACE WITH RIGHT ASSIGNMENT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 042

REV. 1

FGS PANEL - TB-950-JE-04201 + TB-950-JE-04205 + TB-950-JE-05101

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A)	WIRE COLOUR - (B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-GDZ-04213	AI	TB-950-JE-04201	01	02	03	04301	04302	04303	1mm²	BK	WH	RD	TB-02-01	09A	09B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-04214	AI	TB-950-JE-04201	04	05	06	04304	04305	04306	1mm²	BK	WH	RD	TB-02-03	11A	11B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-04215	AI	TB-950-JE-04201	07	08	09	04307	04308	04309	1mm²	BK	WH	RD	TB-03-01	11A	11B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-04216	AI	TB-950-JE-04201	10	11	12	04310	04311	04312	1mm²	BK	WH	RD	TB-02-01	10A	10B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-04217	AI	TB-950-JE-04201	13	14	15	04313	04314	04315	1mm²	BK	WH	RD	TB-02-03	12A	12B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-04218	AI	TB-950-JE-04201	16	17	18	04316	04317	04318	1mm²	BK	WH	RD	TB-03-01	12A	12B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-04207	AI	TB-950-JE-04205	01	02	03	04319	04320	04321	1mm²	BK	WH	RD	TB-04-01	04A	04B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-04208	AI	TB-950-JE-04205	04	05	06	04322	04323	04324	1mm²	BK	WH	RD	TB-04-03	04A	04B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-04209	AI	TB-950-JE-04205	07	08	09	04325	04326	04327	1mm²	BK	WH	RD	TB-05-01	04A	04B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-04210	AI	TB-950-JE-04205	10	11	12	04328	04329	04330	1mm²	BK	WH	RD	TB-04-01	05A	05B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-04211	AI	TB-950-JE-04205	13	14	15	04331	04332	04333	1mm²	BK	WH	RD	TB-04-03	05A	05B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-04212	AI	TB-950-JE-04205	16	17	18	04334	04335	04336	1mm²	BK	WH	RD	TB-05-01	05A	05B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-FDZ-05101	AI	TB-950-JE-05101	01	02	03	04337	04338	04339	1mm²	BK	WH	RD	TB-02-03	10A	10B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-FDZ-05102	AI	TB-950-JE-05101	04	05	06	04340	04341	04342	1mm²	BK	WH	RD	TB-03-01	10A	10B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-FDZ-05103	AI	TB-950-JE-05101	07	08	09	04343	04344	04345	1mm²	BK	WH	RD	TB-03-03	10A	10B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-FDZ-05104	AI	TB-950-JE-05101	10	11	12	04346	04347	04348	1mm²	BK	WH	RD	TB-04-01	10A	10B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-05101	AI	TB-950-JE-05101	13	14	15	04349	04350	04351	1mm²	BK	WH	RD	TB-02-03	09A	09B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-05102	AI	TB-950-JE-05101	16	17	18	04352	04353	04354	1mm²	BK	WH	RD	TB-03-01	09A	09B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-05103	AI	TB-950-JE-05101	19	20	21	04355	04356	04357	1mm²	BK	WH	RD	TB-03-03	09A	09B	19	20	21	CA_19_20	CA_19_021	FGS_AI01
950-GDZ-05104	AI	TB-950-JE-05101	22	23	24	04358	04359	04360	1mm²	BK	WH	RD	TB-04-01	09A	09B	22	23	24	CA_22_23	CA_22_024	FGS_AI01
950-GDZ-05105	AI	TB-950-JE-05101	25	26	27	04361	04362	04363	1mm²	BK	WH	RD	TB-04-03	09A	09B	25	26	27	CA_25_26	CA_25_027	FGS_AI01
950-GDZ-05106	AI	TB-950-JE-05101	28	29	30	04364	04365	04366	1mm²	BK	WH	RD	TB-05-01	09A	09B	28	29	30	CA_28_29	CA_28_030	FGS_AI01
WS0110040114	AI	TB-950-JE-05101	31	32	33	04367	04368	04369	1mm²	BK	WH	RD	TB-04-01	14A	14B	31	32	33	CA_31_32	CA_31_033	FGS_AI01
WS0110040115	AI	TB-950-JE-05101	34	35	36	04370	04371	04372	1mm²	BK	WH	RD	TB-04-01	15A	15B	34	35	36	CA_34_35	CA_34_036	FGS_AI01

REPLACE WITH RIGHT ASSIGNMENT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 043

REV. 1

FGS PANEL - TB-950-JE-06101 + TB-950-JE-06201 + TB-B400-FGS-002-3

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A)	WIRE COLOUR - (B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-FDZ-06101	AI	TB-950-JE-06101	01	02	03	04401	04402	04403	1mm²	BK	WH	RD	TB-04-03	10A	10B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-FDZ-06103	AI	TB-950-JE-06101	04	05	06	04404	04405	04406	1mm²	BK	WH	RD	TB-05-01	10A	10B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
WS012 0050113	AI	TB-950-JE-06101	07	08	09	04407	04408	04409	1mm²	BK	WH	RD	TB-05-01	13A	13B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
WS012 0050114	AI	TB-950-JE-06101	10	11	12	04410	04411	04412	1mm²	BK	WH	RD	TB-05-01	14A	14B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-06201	AI	TB-950-JE-06201	01	02	03	04413	04414	04415	1mm²	BK	WH	RD	TB-04-01	06A	06B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-06202	AI	TB-950-JE-06201	04	05	06	04416	04417	04418	1mm²	BK	WH	RD	TB-04-03	06A	06B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-06203	AI	TB-950-JE-06201	07	08	09	04419	04420	04421	1mm²	BK	WH	RD	TB-05-01	06A	06B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-06204	AI	TB-950-JE-06201	10	11	12	04422	04423	04424	1mm²	BK	WH	RD	TB-04-01	07A	07B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-06205	AI	TB-950-JE-06201	13	14	15	04425	04426	04427	1mm²	BK	WH	RD	TB-04-03	07A	07B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-06206	AI	TB-950-JE-06201	16	17	18	04428	04429	04430	1mm²	BK	WH	RD	TB-05-01	07A	07B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-04201	AI	TB-B400-FGS-002-3	01	02	03	04431	04432	04433	1mm²	BK	WH	RD	TB-04-01	11A	11B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-04202	AI	TB-B400-FGS-002-3	04	05	06	04434	04435	04436	1mm²	BK	WH	RD	TB-04-03	11A	11B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-04203	AI	TB-B400-FGS-002-3	07	08	09	04437	04438	04439	1mm²	BK	WH	RD	TB-05-01	11A	11B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-04204	AI	TB-B400-FGS-002-3	10	11	12	04440	04441	04442	1mm²	BK	WH	RD	TB-04-01	12A	12B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-04205	AI	TB-B400-FGS-002-3	13	14	15	04443	04444	04445	1mm²	BK	WH	RD	TB-04-03	12A	12B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-04206	AI	TB-B400-FGS-002-3	16	17	18	04446	04447	04448	1mm²	BK	WH	RD	TB-05-01	12A	12B	16	17	18	CA_16_17	CA_16_018	FGS_AI01

INSERT SPARE TERMINALS

REPLACE WITH RIGHT ASSIGNMENT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 044

REV. 1

SHEET LEFT INTENTIONALLY BLANK

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 045

REV. 1

ITEM	Tag	B400-FGS-001	: FGS System Cabinet		Dwg	123A90-DDL-IN-DL-40012	
	S/Sys	70-00	: F&G Control System		Module	LD_B-400	
TASK	code	C10000873	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Instrumental	Form	CJX48	Indoor Cabinet/Panel

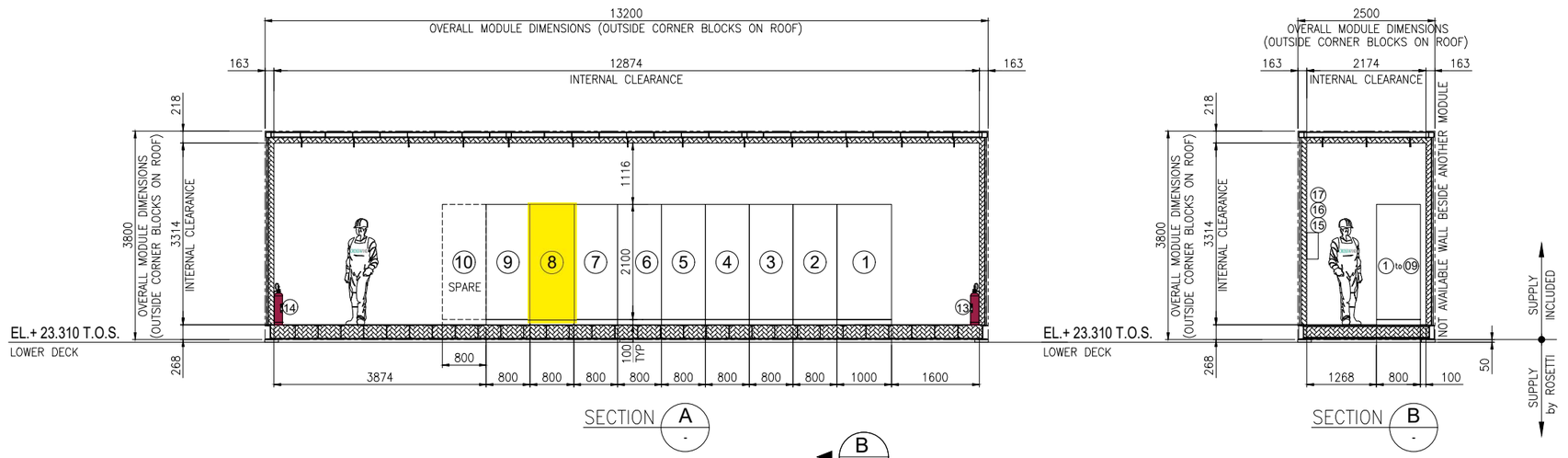
1	Check for mechanical damage (Panel and internal items).	OK
2	Check that the Panel is de-energized and safe.	OK
3	Check identification (tag number, tag plates).	OK
4	Check supporting and protection against vibrations.	OK
5	Check door handles (type, locking, …).	PL
6	Check data sheet and general arrangement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

Comments: Note refer to punch list raised during FAT

Note 6 : C30000222/C30000225/C30000375/C30000378/C30000384.

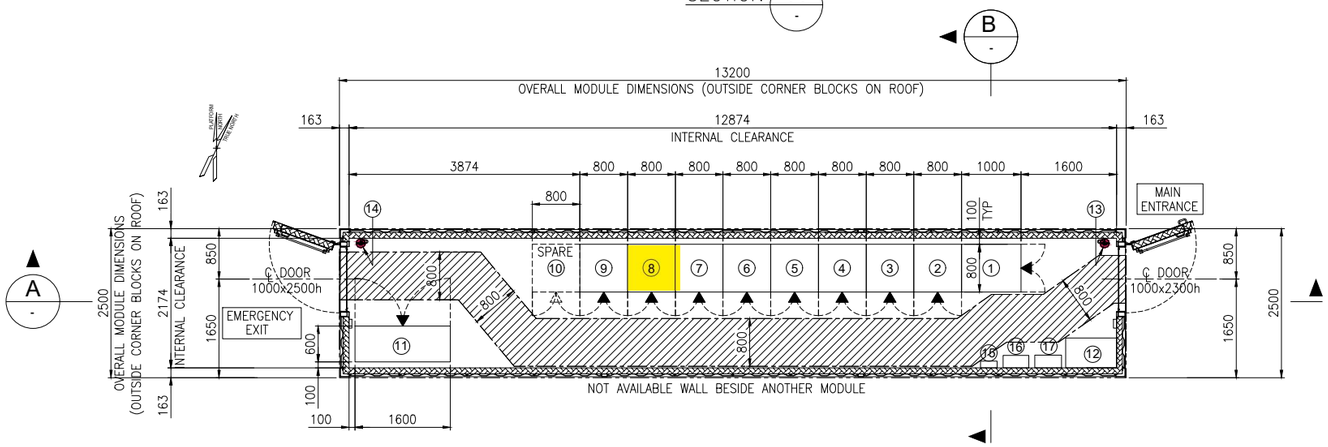
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-06	2024-11-20	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-06T17:21:37.596Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-11-20T14:46:04.082Z	

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



SECTION A -

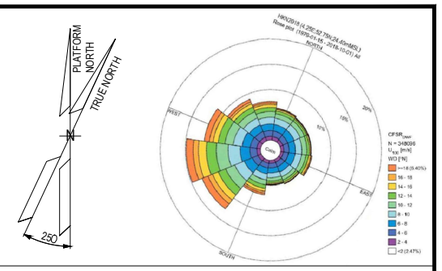
SECTION B -



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

EQUIPMENT LIST

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



NOTES

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

LEGEND

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

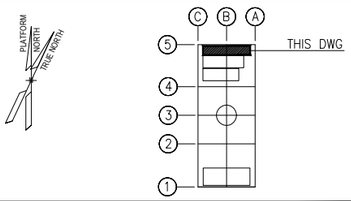
HOLDS

.

REFERENCE

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

KEY PLAN



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

CROSSWIND — ROSETTI MARINO

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

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

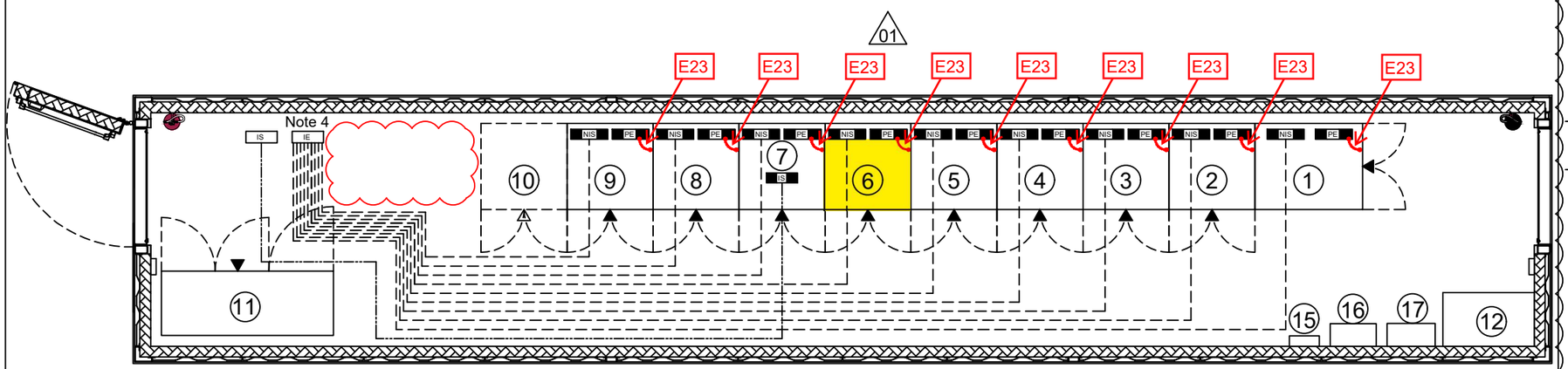
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE 1:33,3
DRAWN MGA | CHECKED LCA | APPROVED DLO | DATE 27/05/24
A1 | DRAWING NO. 123A90-DDL-IN-DL-40012 | SHEET 001 | REV. 03

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

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

NOTES

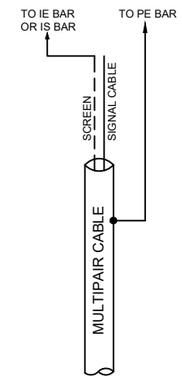
1 - THIS DOCUMENT IS VALID ONLY FOR EARTHING LAYOUT.
2 - THE CABLE SIZE SHALL BE CONFIRMED
3 - THE EXACT POSITION OF EARTHING/MARSHALLING BUS BAR SHALL BE DEFINED IN FIELD.
4 - THE EARTHING BUS BARS INSTALLATION SHALL BE PREFERABLY IN VERTICAL MODE.
5 - FOR EARTHING TYPICAL DETAILS AND Y/G CONDUCTOR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



LEGEND

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

KEY



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

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

ROSETTI MARINO SpA

01

CROSSWIND

ROSETTI MARINO

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

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

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

SCALE : NTS

A3

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

SHEET 003

REV. 01

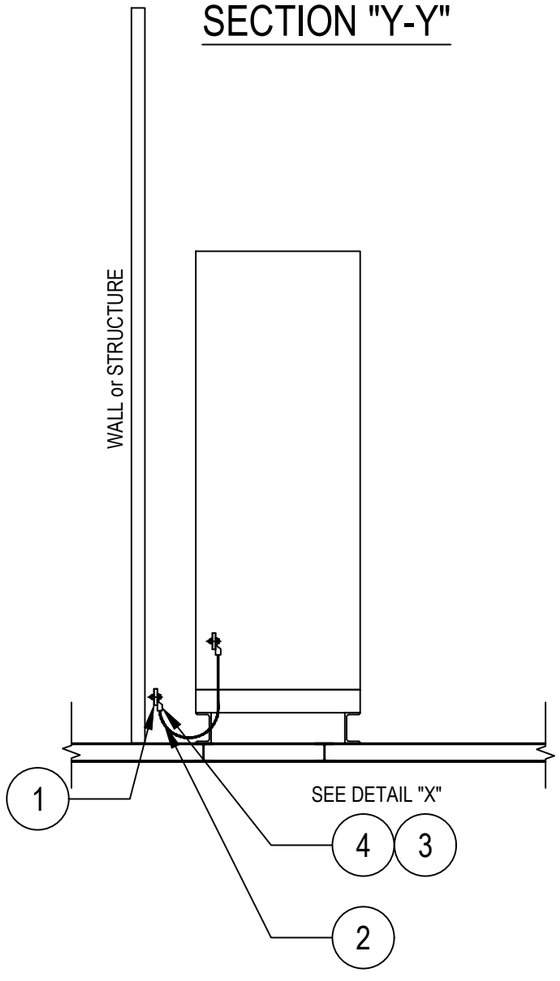
F.to UNI A3: 420mmx297mm

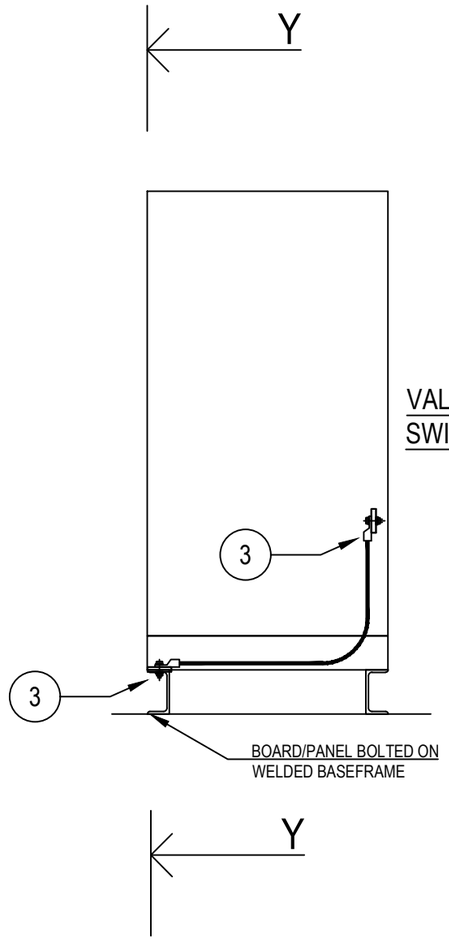
File Name : 123A90-DDL-IN-DL-430013 Rev. 01

E23

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

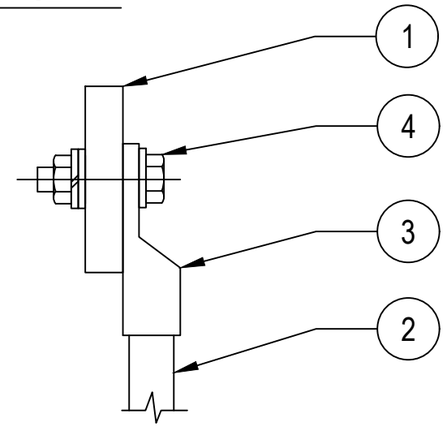
SECTION "Y-Y"





VALID FOR HV/LV SWITCHGEAR

DETAIL "X"



NOTES:

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

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR PANELS/BOARDS IN TECHNICAL ROOM

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

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

F.to UNI A3: 420mmx297mm

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

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE
060	X									BASE LOAD POWER HUB (BLPH) SPARE PAGE
061	X	X								BASE LOAD POWER HUB (BLPH) 24Vdc POWER DISTRIBUTION
062	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - FAULT ALARM SIGNALS TO DCS
063	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - RACK "A" POWER DISTRIBUTION
064	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - RACK "B" POWER DISTRIBUTION
065	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - RACK "C" POWER DISTRIBUTION
066	X									BASE LOAD POWER HUB (BLPH) SIS PANEL - TYPICAL WIRING DIGITAL INPUT/OUTPUT
067	X									BASE LOAD POWER HUB (BLPH) SIS PANEL - TYPICAL WIRING ANALOG INPUT
068	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
069	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL OUTPUT SIGNALS
070	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL OUTPUT SIGNALS
071	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL OUTPUT SIGNALS
072	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
073	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL INPUT SIGNALS
074	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL INPUT SIGNALS
075	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL INPUT SIGNALS
076	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
077	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - ANALOG INPUT SIGNALS

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

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
INDEX

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 003

REV. 1

NUMBER	SYMBOL	REFERENCE	DESCRIPTION
01		IEC 60417-5031	DIRECT CURRENT
02		IEC 60417-5032	ALTERNATING CURRENT
03		IEC 60417-5033	BOTH DIRECT AND ALTERNATING CURRENT
04		.	THREE-PHASE ALTERNATING CURRENT
05		IEC 60417-5017	EARTH (GROUND) TERMINAL
06		IEC 60417-5019	PROTECTIVE CONDUCTOR TERMINAL
07		IEC 60417-5020	FRAME OR CHASSIS TERMINAL
08		IEC 60417-5021	EQUIPOTENTIALITY
09		IEC 60417-5007	ON (SUPPLY)
10		IEC 60417-5008	OFF (SUPPLY)
11		IEC 60417-5172	EQUIPMENT PROTECTED THROUGHOUT BY DOUBLE INSULATION OR REINFORCED INSULATION
12		.	CAUTION RISK OF ELECTRIC SHOCK
13		IEC 60417-5041	CAUTION HOT SURFACE
14		ISO 7000-0434	CAUTION RISK OF DANGER
15		IEC 60417-5266	IN POSITION OF A BI-STABLE PUSH CONTROL
16		IEC 60417-5269	OUT POSITION OF A BI-STABLE PUSH CONTROL

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
LEGEND

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 03A

REV. 1

MSXX XA	ROTATIVE MAIN SWITCH -	EVx FLx	ELECTRIC FAN WITH FAULT DETECTION	BARRIER NAME	I.S. BARRIER (NOTE: AB-xx FOR ACTIVE BARRIERS, ZB-xx FOR ZENER BARRIERS)
QFXX XA XMA Qx 13 14	DIFFERENTIAL RESIDUAL CURRENT CIRCUIT BREAKER WITH AUXILIARY CONTACT	HEx	PANEL ELECTRIC HEATER -	ISOLATOR NAME	GALVANIC ISOLATOR -
QFXX XA Qx 13 14	AUTOMATIC CIRCUIT BREAKER WITH AUXILIARY CONTACT	T1 230Vac 24Vac 230Vac/24Vac	AC/AC VOLTAGE TRANSFORMER -	1	FUSED TERMINAL -
QUXX XA	DISCONNECTOR WITH FUSE -	TH 1 2 <1>	THERMOSTATE NO CONTACT -	1	KNIFE TERMINAL -
QFXX XA XMA	PURE RESIDUAL CURRENT CIRCUIT BREAKER	KXX	NO CONTACT -	1	FEED THROUGH TERMINAL -
L1 SAX PEN L2 PEN *1 2805321 *2 2805566	SURGE ARRESTOR -	KXX	NC CONTACT -	(20-B02) PAGE ROW COLUMN	PAGE CROSS REFERENCE INDICATION -
EF-1 TB-2 TB-1	LINE FILTER MODULE -	Sx	DOOR LIMIT SWITCH -	CBxx L N	COMMON BOX -
SKxx	SERVICE SOCKET -	HA-x	FRONT PANEL ALARM BUZZER -		- -
GDXX 48DW AC DC	AC/DC FEEDER -	Hx 15W	INTERNAL LIGHT OR FRONT PANEL LIGHT		- -
VDX IN IN OUT OUT REDUNDANCY DIODE MODULE 40A	REDUNDANCY DIODE MODULE -		MUSHROOM PUSHBUTTON INDICATOR NORMAL PUSHBUTTON INDICATOR		- -
KX	RELAYS -		ROTATIVE SELECTOR INDICATOR -		- -
	- -	Rp 10kΩ	RESISTOR -		- -
	- -		- -		- -

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SYMBOL LEGEND

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

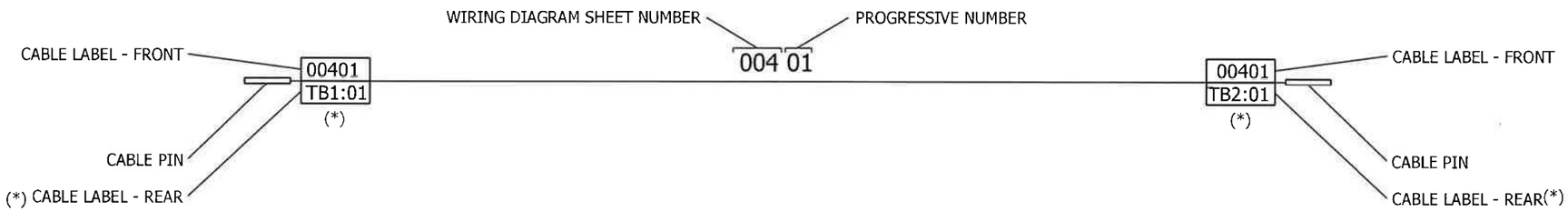
SHEET 004

REV. 1

COLOR ACRONYMS LIST :

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

TYPICAL WIRE MARKING



EARTH CONNECTION RESUME TABLE:

	CABINET
P.E. EARTH	
I.E. EARTH	
I.S.E. EARTH	

EARTH ACRONYMS LEGEND :

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

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

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS

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

A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 005
REV. 1

FGS PANEL - POWER DISTRIBUTION FROM UPS LINE 1

230Vac-50Hz
FROM UPS#1
(BY CUSTOMER)

CUSTOMER CONNECTION POINT

TB-PS1_F

00601 BR 6 mm² | 00603 LB 6 mm² | 00611 YG 6 mm² → PE

CB_UPS1_F
(007-B02)

(007-C02)
(007-C02)

MS1_F
230Vac
32A

00604 BR 6 mm² | 00602 LB 6 mm²

	Q6	Q7	Q8	Q9	Q10
Cable	00605 BR 2,5 mm² / 00606 LB 2,5 mm²	00607 BR 2,5 mm² / 00608 LB 2,5 mm²	00609 BR 2,5 mm² / 00610 LB 2,5 mm²	00612 BR 2,5 mm² / 00613 LB 2,5 mm²	00614 BR 2,5 mm² / 00615 LB 2,5 mm²
Device	Q6 230Vac 16A "C" CURVE	Q7 230Vac 6A "D" CURVE	Q8 230Vac 6A "D" CURVE	Q9 230Vac 6A "D" CURVE	Q10 230Vac 6A "D" CURVE
	(017-B02)	(017-A02)	(017-A03)	(017-B03)	(017-C03)
Cable	01501 BR 2,5 mm² / 01502 LB 2,5 mm²	02201 BR 1,5 mm² / 02202 LB 1,5 mm²	02301 BR 1,5 mm² / 02302 LB 1,5 mm²	02401 BR 1,5 mm² / 02402 LB 1,5 mm²	02501 BR 1,5 mm² / 02502 LB 1,5 mm²
	(015-B02) / (015-B02)	(022-G02) / (022-G02)	(023-G02) / (023-G02)	(024-G02) / (024-G02)	(025-G02) / (025-G02)
	POWER SUPPLY G1_F	POWER SUPPLY (1) RACK "A" PW482-51 — 1	POWER SUPPLY (1) RACK "B" PW482-51 — 2	POWER SUPPLY (1) RACK "C" PW482-51 — 3	POWER SUPPLY (1) RACK "D" PW482-51 — 4

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

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

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

SCALE : 1

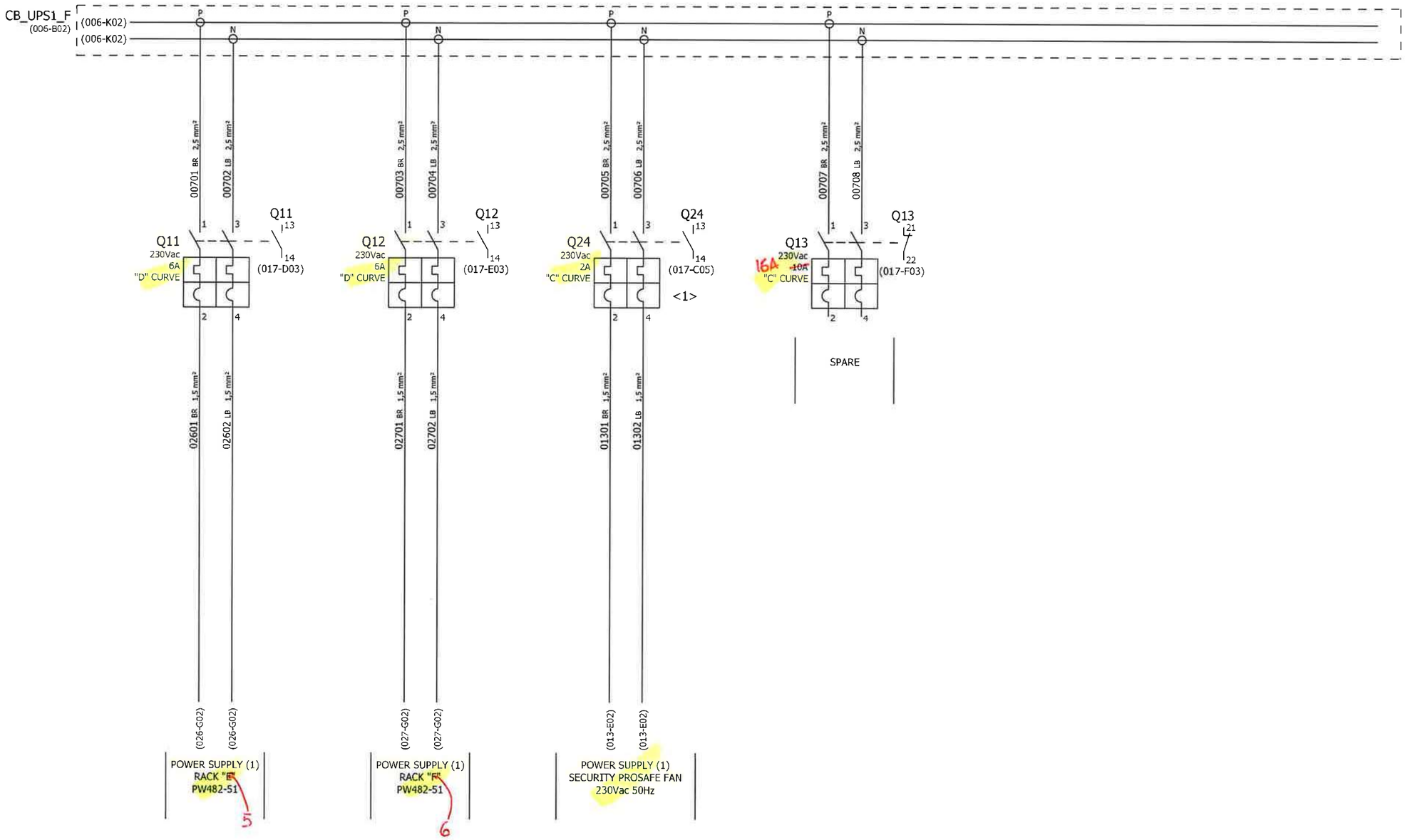
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 006

REV. 1

FGS PANEL - POWER DISTRIBUTION FROM UPS LINE 1



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 007

REV. 1

FGS PANEL - POWER DISTRIBUTION FROM UPS LINE 2

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

CUSTOMER CONNECTION POINT

TB-PS2_F 1 2 3

00801 BR 6 mm² — 00803 LB 6 mm² — 00611 YG 6 mm² — PE

CB_UPS2_F
(009-B02)

(009-C02)
(009-C02)

MS2_F
230Vac
32A

00804 BR 6 mm² — 00802 LB 6 mm²

	00805 BR 2,5 mm² / 00806 LB 2,5 mm²	00807 BR 2,5 mm² / 00808 LB 2,5 mm²	00809 BR 2,5 mm² / 00810 LB 2,5 mm²	00811 BR 2,5 mm² / 00812 LB 2,5 mm²	00813 BR 2,5 mm² / 00814 LB 2,5 mm²
	Q14	Q15	Q16	Q17	Q18
	230Vac 16A "C" CURVE	230Vac 6A "D" CURVE	230Vac 6A "D" CURVE	230Vac 6A "D" CURVE	230Vac 6A "D" CURVE
	(017-G03)	(017-F04)	(017-E04)	(017-D04)	(017-C04)
	01503 BR 2,5 mm² / 01504 LB 2,5 mm²	02203 BR 1,5 mm² / 02204 LB 1,5 mm²	02303 BR 1,5 mm² / 02304 LB 1,5 mm²	02403 BR 1,5 mm² / 02404 LB 1,5 mm²	02503 BR 1,5 mm² / 02504 LB 1,5 mm²
	(015-H02) / (015-H02)	(022-H02) / (022-H02)	(023-H02) / (023-H02)	(024-H02) / (024-H02)	(025-H02) / (025-H02)
	POWER SUPPLY G2_F	POWER SUPPLY (2) RACK "A" PW482-51 (1)	POWER SUPPLY (2) RACK "B" PW482-51 (2)	POWER SUPPLY (2) RACK "C" PW482-51 (3)	POWER SUPPLY (2) RACK "D" PW482-51 (4)

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND — ROSETTI MARINO

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

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

SCALE : 1

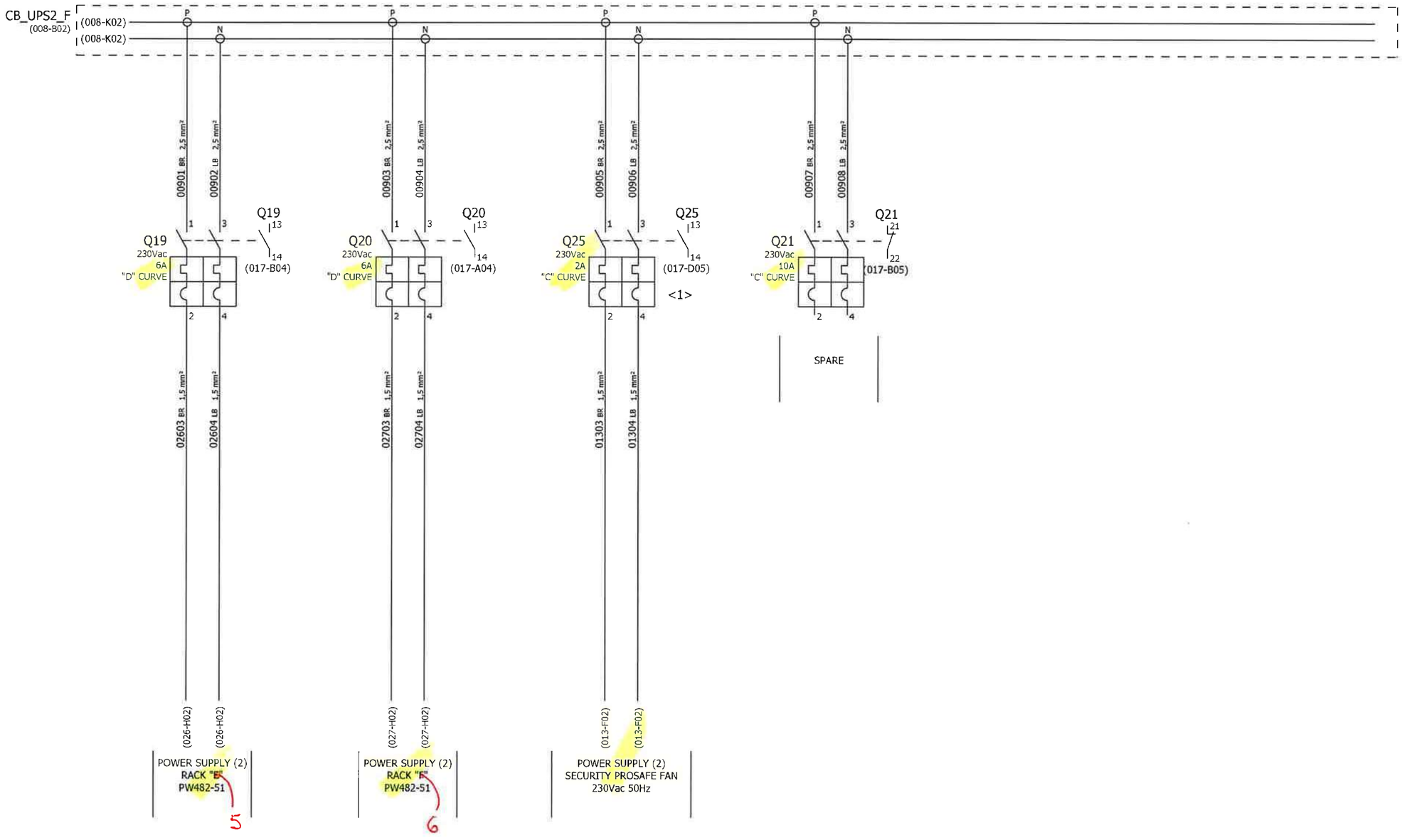
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 008

REV. 1

FGS PANEL - POWER DISTRIBUTION FROM UPS LINE 2



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 009

REV. 1

FGS PANEL - POWER DISTRIBUTION FROM NON UPS

230Vac-50Hz
FROM MCC
(BY CUSTOMER)

CUSTOMER CONNECTION POINT

TB-PS3_F 1 2 3

01001 BR 6 mm² — 01003 LB 6 mm² — 00611 YG 6 mm² — PE

CB_SER_F
(011-A01)

N P P N P N P N

(011-A01)
(011-A01)

01004 LB 6 mm² — 01002 BR 6 mm²

01005 BR 2.5 mm² — 01007 LB 2.5 mm²

01009 BR 2.5 mm² — 01015 LB 2.5 mm²

01020 BR 2.5 mm² — 01021 LB 2.5 mm²

Q1
230Vac
25A
Id 30mA
1 3 13 14
2 4
(017-G02)

Q2
230Vac
16A
"C" CURVE
1 3 13 14
2 4
(017-F02)

Q3
230Vac
2A
"C" CURVE
1 3 13 14
2 4
(017-E02)

Q4
230Vac
4A
"C" CURVE
1 3 21 22
2 4
(017-D02)

SPARE

01006 BR 2.5 mm² — 01008 LB 2.5 mm²

01010 BR 1.5 mm² — 01011 BR 1.5 mm² — 01012 BR 1.5 mm²

S1_F 11 12 — S2_F 11 12 — S3_F 11 12

01013 BR 1.5 mm² — 01018 BR 1.5 mm² — 01019 BR 1.5 mm²

H1_F x1 x2 — H2_F x1 x2 — H3_F x1 x2

SK1_F — PE — 00611 YG 2,5 mm² — PE

01014 LB 1,5 mm² — 01017 LB 1,5 mm² — 01017 LB 1,5 mm²

SERVICE SOCKET 230Vac 50Hz		INTERNAL LIGHT (LEFT SIDE) 230Vac 50Hz TOTAL CONSUMPTION: 15W	INTERNAL LIGHT (CENTRAL SIDE) 230Vac 50Hz TOTAL CONSUMPTION: 15W	INTERNAL LIGHT (RIGHT SIDE) 230Vac 50Hz TOTAL CONSUMPTION: 15W

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

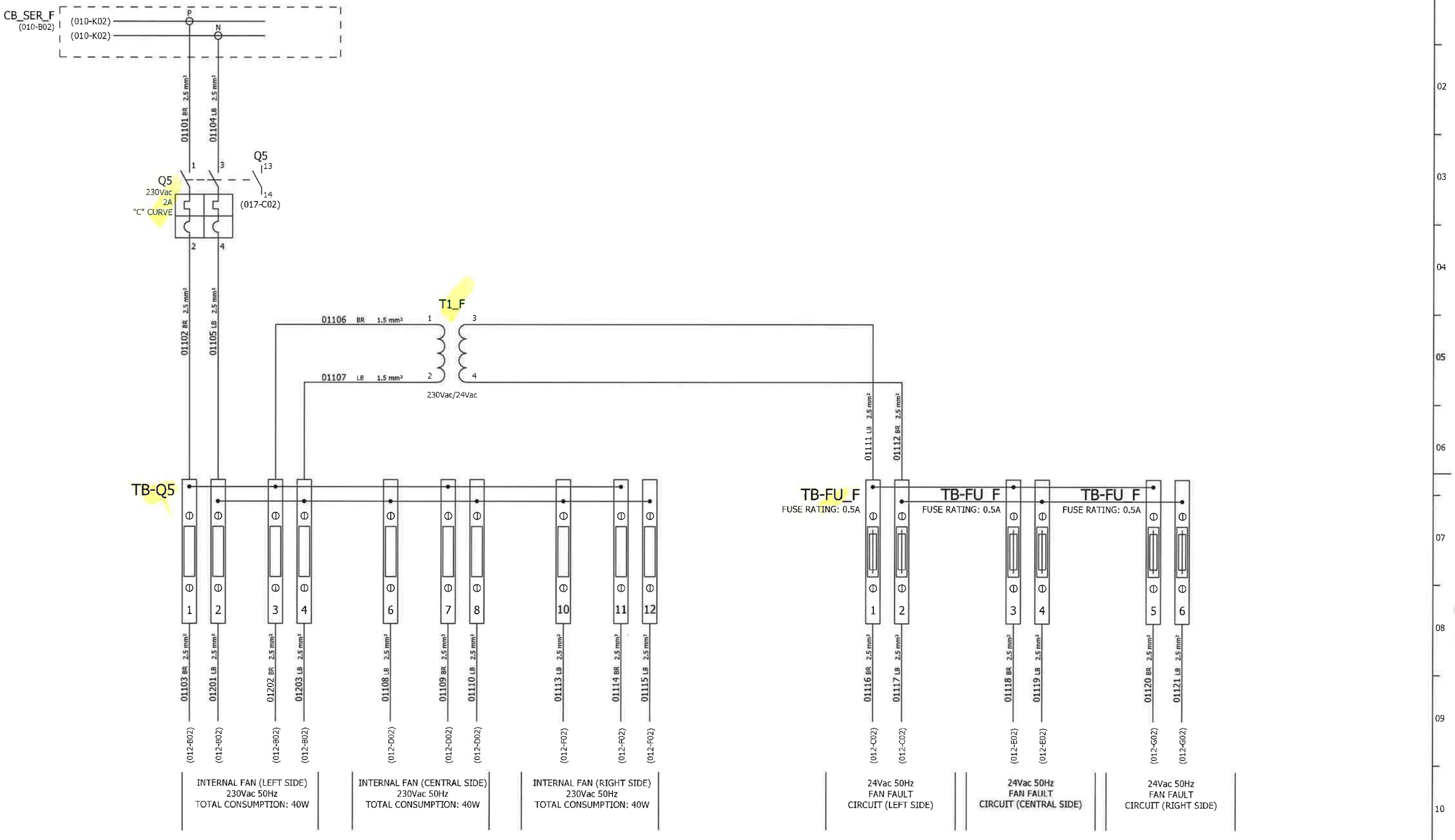
CROSSWIND — ROSETTI MARINO

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

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

A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 010
REV. 1

FGS PANEL - POWER DISTRIBUTION FROM NON UPS



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

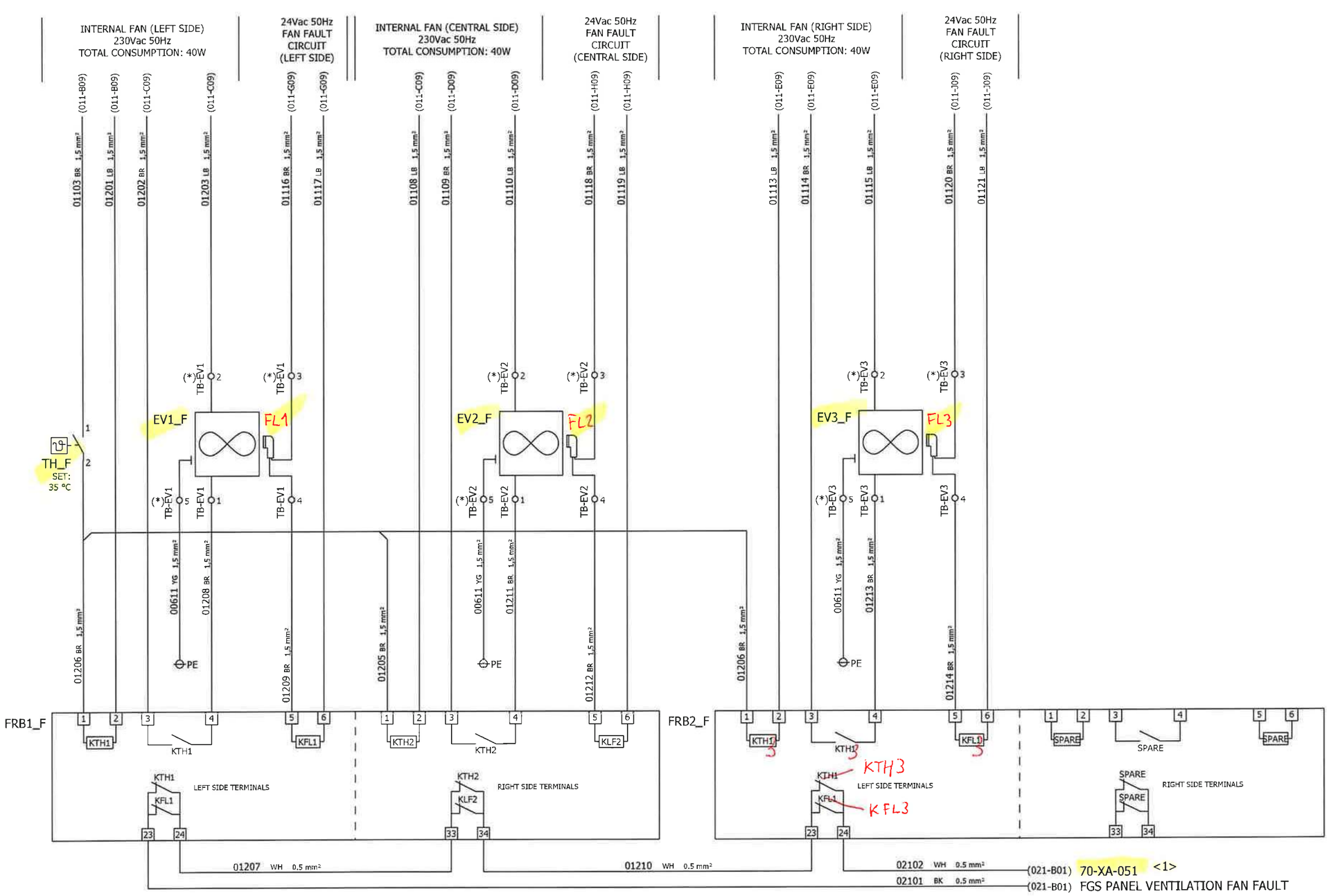
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 011

REV. 1

FGS PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN & HEATER



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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

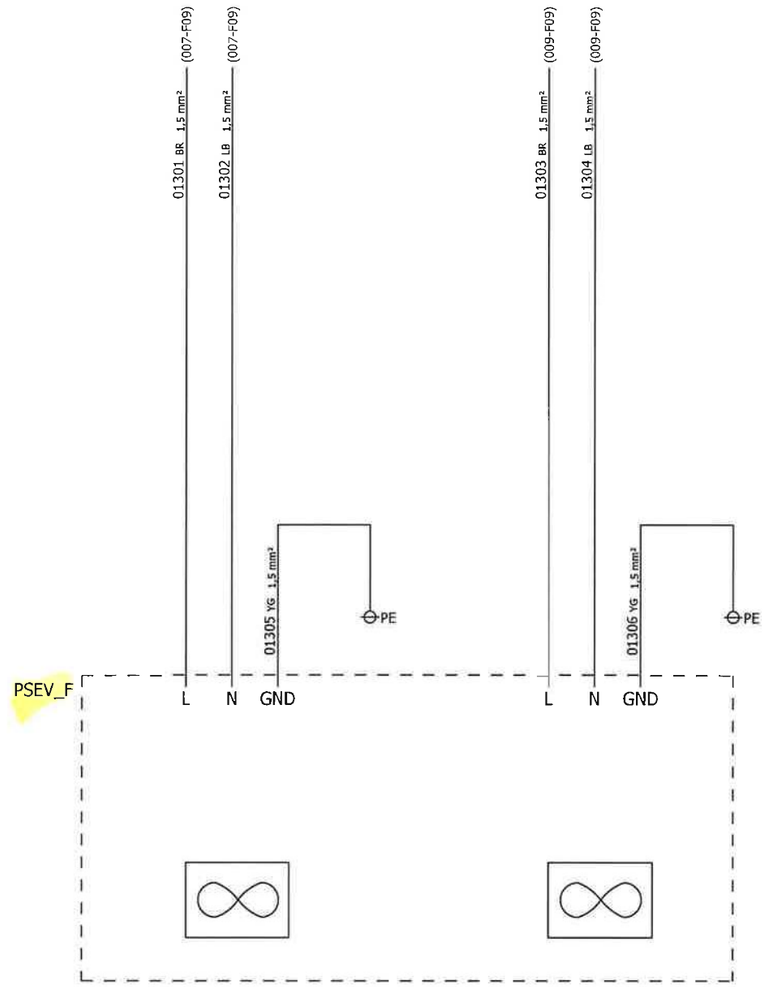
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 012

REV. 1

FGS PANEL - 230Vac 50Hz POWER DISTRIBUTION SECURITY PROSAFE FAN



1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - 230Vac 50Hz POWER DISTRIBUTION SECURITY PROSAFE FAN

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

A3 | DRAWING NO. 1724000594-IN-DG-00021 | SHEET 013 | REV. 1

SHEET LEFT INTENTIONALLY BLANK

1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 014

REV. 1

FGS PANEL - 230Vac/24Vdc POWER DISTRIBUTION

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#1

(006-D09) 01501 BR 2,5 mm² — (006-D09) 01502 LB 2,5 mm²

G1_F
IN: 230Vac
OUT: 24Vdc
480W
20A
WEIDMULLER PRO ECO
code 1469510000

02103 WH 1 mm² (021-B02)
01414 WH 1 mm²
00611 YG 2,5 mm² PE

70-XA-052
FGS PANEL POWER SUPPLY
24Vdc FAILURE <1>

01505 RD 4 mm² · 01507 BU 4 mm² · 01506 RD 4 mm² · 01510 BU 4 mm²

VD1_F
20A
WEIDMULLER PRO DM 20
code 2486080000
<1>
IN1+ IN1- IN2+ IN2-
OUT+ OUT-
<1>

01508 RD 6 mm² · 01511 BU 6 mm²

INSTALLED 16A
TO BE REPLACED
(F003)

Q22
24Vdc
32A
1 3 2 4
Q22 13 14 (017-D07)

01509 RD 6 mm² · 01512 BU 6 mm²

CB_24Vdc_F
(019-A01)
(020-A01)
(021-A05)
+ -

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#2

(008-D08) 01503 BR 2,5 mm² — (008-D08) 01504 LB 2,5 mm²

G2_F
IN: 230Vac
OUT: 24Vdc
480W
20A
WEIDMULLER PRO ECO
code 1469510000

01415 WH 1 mm²
02104 BK 1 mm² (021-B02)
00611 YG 2,5 mm² PE

70-XA-052
FGS PANEL POWER SUPPLY
24Vdc FAILURE

01513 RD 4 mm² · 01515 BU 4 mm² · 01514 RD 4 mm² · 01518 BU 4 mm²

VD2_F
20A
WEIDMULLER PRO DM 20
code 2486080000
<1>
IN1+ IN1- IN2+ IN1-
OUT+ OUT-
<1>

01516 RD 6 mm² · 01519 BU 6 mm²

Q23
24Vdc
32A
1 3 2 4
Q23 13 14 (017-C07)

01517 RD 6 mm² · 01520 BU 6 mm²

(019-A01)
(019-A01)

1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

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

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 015
REV. 1

SHEET LEFT INTENTIONALLY BLANK

1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

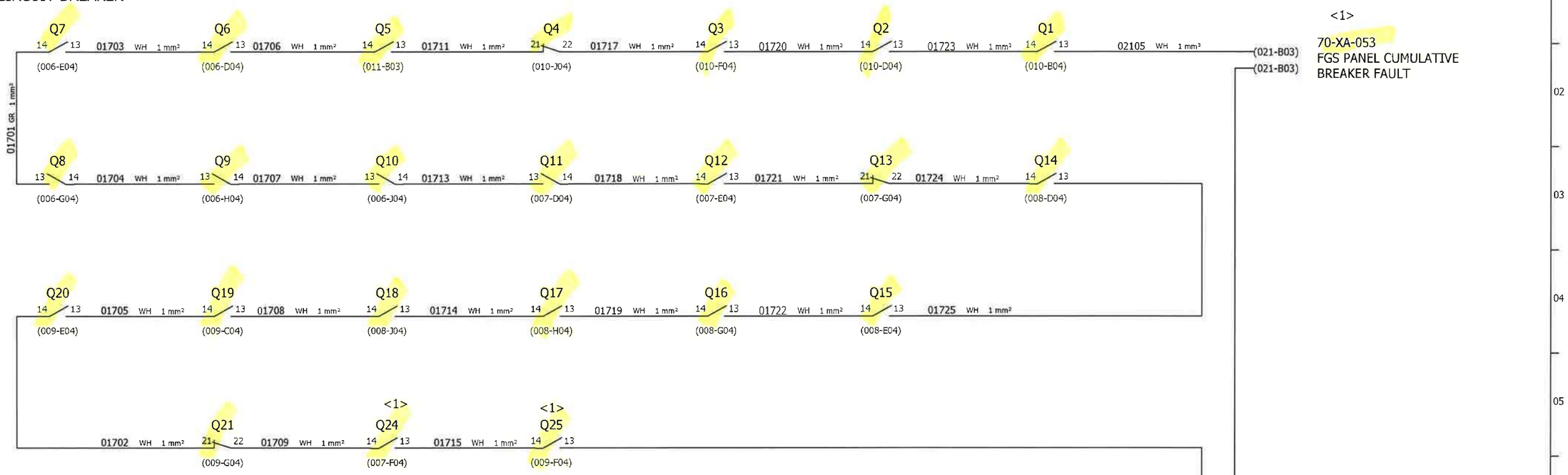
DRAWING NO. 1724000594-IN-DG-00021

SHEET 016

REV. 1

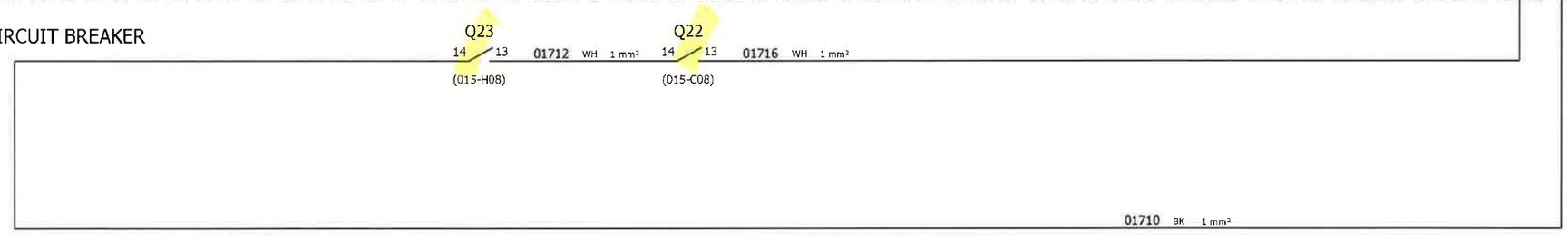
FGS PANEL - BRAKER FAULT ALARM CIRCUIT

230Vac CIRCUIT BREAKER



<1>
70-XA-053
FGS PANEL CUMULATIVE
BREAKER FAULT

24Vdc CIRCUIT BREAKER



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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - BREAKER FAULT ALARM CIRCUIT

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

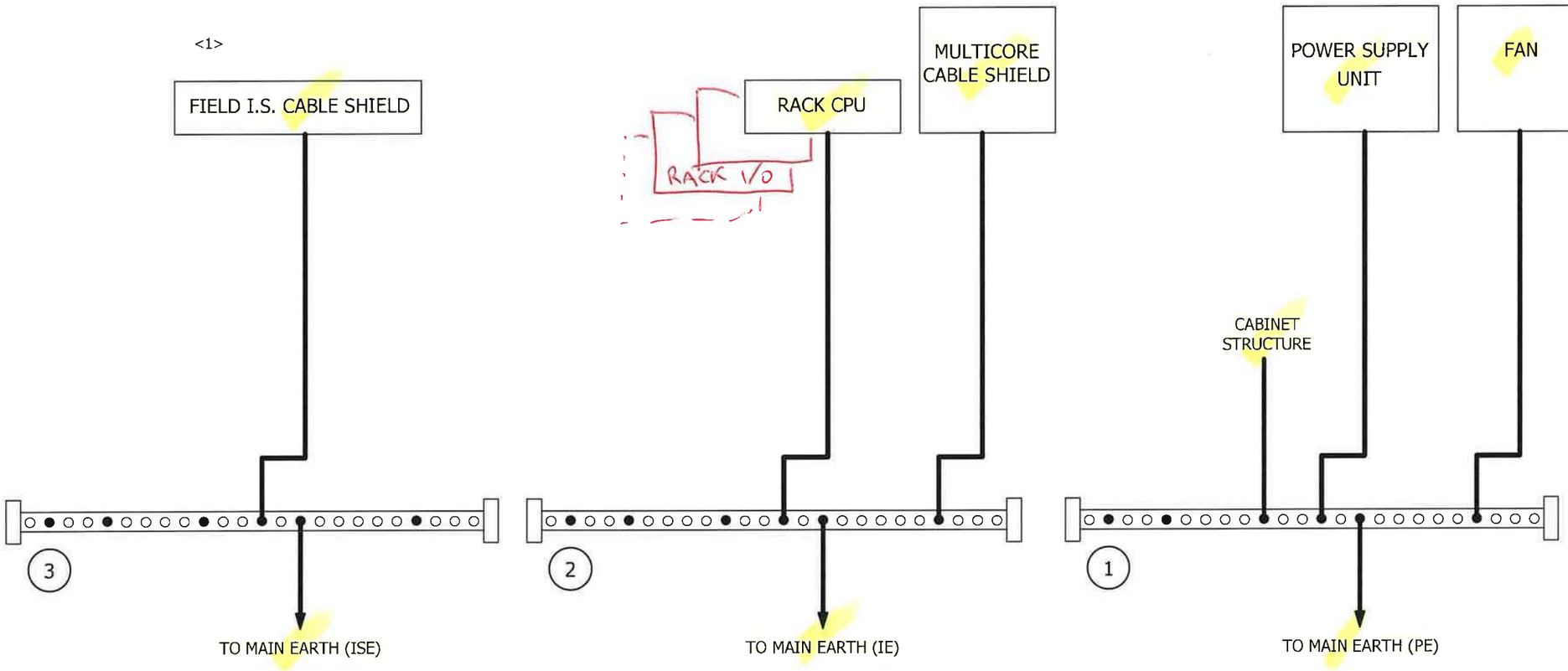
SHEET 017

REV. 1

FGS PANEL - SHIELD/GROUND CONNECTION

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

<1>



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 018

REV. 1

FGS PANEL - 24Vdc POWER DISTRIBUTION

CB_24Vdc_F

(015-B10)
(020-A01)
(021-A05)
(015-J10)
(015-J10)

(020-A01)
(020-A01)

01901 RD 4 mm²
01903 BU 4 mm²
01902 RD 4 mm²
01904 BU 4 mm²

F1
10A

01905 RD 4mm²
01907 BU 4mm²
01906 RD 4mm²
01908 BU 4mm²

F2
10A

CB-COM-A1

TO TYPICAL FGS_DO02
RELAY SIGNAL POWER SUPPLY
(PAG 028)

CB_RLY

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

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

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
24Vdc POWER DISTRIBUTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 019
REV. 1

FGS PANEL - 24Vdc POWER DISTRIBUTION

CB_24Vdc_F

(015-B10) | (019-K01)
(019-A01)
(021-A05) | (019-K01)

(021-B05)
(021-B05)

02001 RD 4 mm²
02003 BU 4 mm²
02066 BU 4 mm²
02065 RD 4 mm²
02063 RD 4 mm²
02064 BU 4 mm²

XL24+_F X24L+
XL24-_F X24L-

<1>

1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16 17 17 18 18 19 19 20 20 21 21 22 22 23 23 24 24 25 25 26 26 27 27 28 28 29 29 30 30 31 31 32 32 33 33 34 34

SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE

02002 RD 1,5 mm²	1+	1-	2+	24Vdc for TB-02-05 (1)	
02004 BU 1,5 mm²					
02005 RD 1,5 mm²	2-	1+	1-	24Vdc for TB-02-05 (2)	
02006 BU 1,5 mm²					
02007 RD 1,5 mm²	1-	2+	2-	24Vdc for TB-02-07 (1)	
02008 BU 1,5 mm²					
02009 RD 1,5 mm²	2-	1+	1-	24Vdc for TB-02-07 (2)	
02010 BU 1,5 mm²					
02011 RD 1,5 mm²	1-	2+	2-	24Vdc for TB-03-05 (1)	
02012 BU 1,5 mm²					
02013 RD 1,5 mm²	2-	1+	1-	24Vdc for TB-03-05 (2)	
02014 BU 1,5 mm²					
02015 RD 1,5 mm²	1-	2+	2-	24Vdc for TB-03-07 (1)	
02016 BU 1,5 mm²					
02017 RD 1,5 mm²	2-	1+	1-	24Vdc for TB-03-07 (2)	
02018 BU 1,5 mm²					
02019 RD 1,5 mm²	1-	2+	2-	24Vdc for TB-04-05 (1)	
02020 BU 1,5 mm²					
02021 RD 1,5 mm²	2-	1+	1-	24Vdc for TB-04-05 (2)	
02022 BU 1,5 mm²					
02023 RD 1,5 mm²	1-	2+	2-	24Vdc for TB-04-07 (1)	
02024 BU 1,5 mm²					
02025 RD 1,5 mm²	2-	1+	1-	24Vdc for TB-04-07 (2)	
02026 BU 1,5 mm²					
02027 RD 1,5 mm²	1-	2+	2-	24Vdc for TB-05-03 (1)	
02028 BU 1,5 mm²					
02029 RD 1,5 mm²	2-	1+	1-	24Vdc for TB-05-03 (2)	
02030 BU 1,5 mm²					
02031 RD 1,5 mm²	1-	2+	2-	24Vdc for TB-05-05 (1)	
02032 BU 1,5 mm²					
02033 RD 1,5 mm²	2-	1+	1-	24Vdc for TB-05-05 (2)	
02034 BU 1,5 mm²					
02035 RD 1,5 mm²	1-	2+	2-	24Vdc for TB-05-07 (1)	
02036 BU 1,5 mm²					
02037 RD 1,5 mm²	2-	1+	1-	24Vdc for TB-05-07 (2)	
02038 BU 1,5 mm²					
02039 RD 1,5 mm²	1-	2+	2-	24Vdc for TB-06-03 (1)	
02040 BU 1,5 mm²					
02041 RD 1,5 mm²	2-	1+	1-	24Vdc for TB-06-03 (2)	
02042 BU 1,5 mm²					
02043 RD 1,5 mm²	1-	2+	2-	24Vdc for TB-06-05 (1)	
02044 BU 1,5 mm²					
02045 RD 1,5 mm²	2-	1+	1-	24Vdc for TB-06-05 (2)	
02046 BU 1,5 mm²					
02047 RD 1,5 mm²	1-	2+	2-	24Vdc for TB-06-07 (1)	<1>
02048 BU 1,5 mm²					
02049 RD 1,5 mm²	2-	3+	4-	24Vdc for TB-06-07 (2)	
02050 BU 1,5 mm²					
02051 RD 1,5 mm²	4-	5+	6-	24Vdc for TB-01-05 (1)	<1>
02052 BU 1,5 mm²					
02053 RD 1,5 mm²	6-	3+	4-	24Vdc for TB-01-05 (2)	
02054 BU 1,5 mm²					
02055 RD 1,5 mm²	4-	5+	6-	24Vdc for TB-01-03 (1)	<1>
02056 BU 1,5 mm²					
02057 RD 1,5 mm²	6-	3+	4-	24Vdc for TB-01-03 (2)	
02058 BU 1,5 mm²					
02059 RD 1,5 mm²	4-	5+	6-	24Vdc for TB-01-01 (1)	<1>
02060 BU 1,5 mm²					
02061 RD 1,5 mm²	6-	3+	4-	24Vdc for TB-01-01 (2)	
02062 BU 1,5 mm²					

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
24Vdc POWER DISTRIBUTION

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 020

REV. 1

FGS PANEL - FAULT ALARM SIGNALS TO DCS & "GDZ" SIGNALS POWER SUPPLY

70-XA-051 (012-G10) — 02102 WH 1 mm² — 09 — 70-XA-051 <1>
- (012-G10) — 02101 BK 1 mm² — 09 — -

70-XA-052 (015-C04) — 02103 WH 1 mm² — 10 — 70-XA-052 <1>
- (015-J04) — 02104 BK 1 mm² — 10 — -

70-XA-053 (017-J02) — 02105 WH 1 mm² — 11 — 70-XA-053 <1>
- (017-J02) — 01710 BK 1 mm² — 11 — -

70-XA-054 — 21 / 24 <1> — THH_F SET: 40 °C — 02106 WH 1 mm² — 12 — 70-XA-054 <1>
- — 02107 BK 1 mm² — 12 — -

	IN	SLOT 7	NODE 6
09A	IN 21	SLOT 7	NODE 6
09B	IN 22	SLOT 7	NODE 6
09C	IN 23	SLOT 7	NODE 6
10A	IN 25	SLOT 7	NODE 6
10B	IN 26	SLOT 7	NODE 6
10C	IN 27	SLOT 7	NODE 6
11A	IN 28	SLOT 7	NODE 6
11B	IN 29	SLOT 7	NODE 6
11C	IN 30	SLOT 7	NODE 6
12A	IN 31	SLOT 7	NODE 6
12B	IN 32	SLOT 7	NODE 6
12C	IN 33	SLOT 7	NODE 6

CB_24Vdc_F
(015-B10) (020-K01) <1>
(019-A01) (020-K01)
(020-A01)

02108 RD 2,5 mm² — 02109 BU 2,5 mm²

1 / 2	950-GDZ-01101-PS
3 / 4	950-GDZ-01102-PS
5 / 6	950-GDZ-01103-PS
7 / 8	950-GDZ-02117-PS
9 / 10	950-GDZ-02118-PS
11 / 12	950-GDZ-02119-PS
13 / 14	950-GDZ-02120-PS
15 / 16	950-GDZ-03101-PS
17 / 18	950-GDZ-03102-PS
19 / 20	950-GDZ-03103-PS
21 / 22	950-GDZ-03104-PS
23 / 24	950-GDZ-03105-PS
25 / 26	SPARE
27 / 28	SPARE
29 / 30	SPARE
31 / 32	SPARE

02110 RD 2,5 mm² — 02111 BU 2,5 mm²

FGS001-UA005 AT_01_F — <1> — 03301 WH 1mm² — 03302 BK 1mm² — <1>

DETAIL TO BE IMPLEMENTED

13 A	IN 13	S.7	N.6
B	↓	S.7	N.6
C	↓	S.7	AI.6

70-XA-055

to A	SLOT 5	NODE 2
to B	SLOT 5	2
loc	5	2

FGS001-UA-05

CUSTOMER TAG	SIGNAL DESCRIPTION FROM IO LIST
70-XA-051	FGS PANEL VENTILATION FAN FAULT
70-XA-052	FGS PANEL POWER SUPPLY & DIODES FAILURE
70-XA-053	FGS PANEL CUMULATIVE BREAKER FAULT
70-XA-054	FGS PANEL HIGH TEMPERATURE ALARM
70-XA-055	FGS PANEL DIGITAL/TB CUMUL- FAULT /ANALOG

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

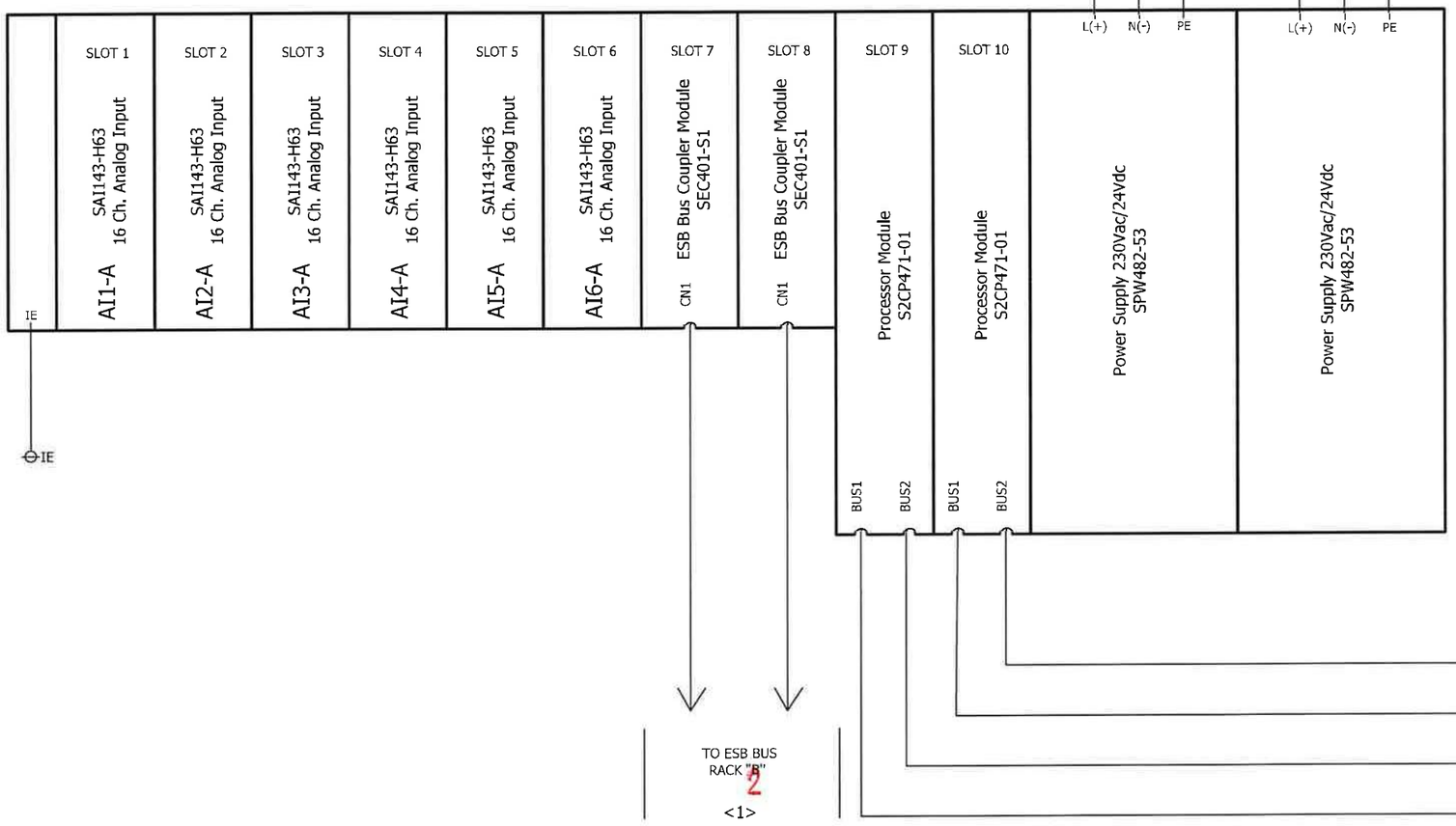
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

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

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - FAULT ALARM SIGNALS TO DCS & "GDZ" SIGNALS P.S.

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 021
REV. 1

FGS PANEL - RACK "A" POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

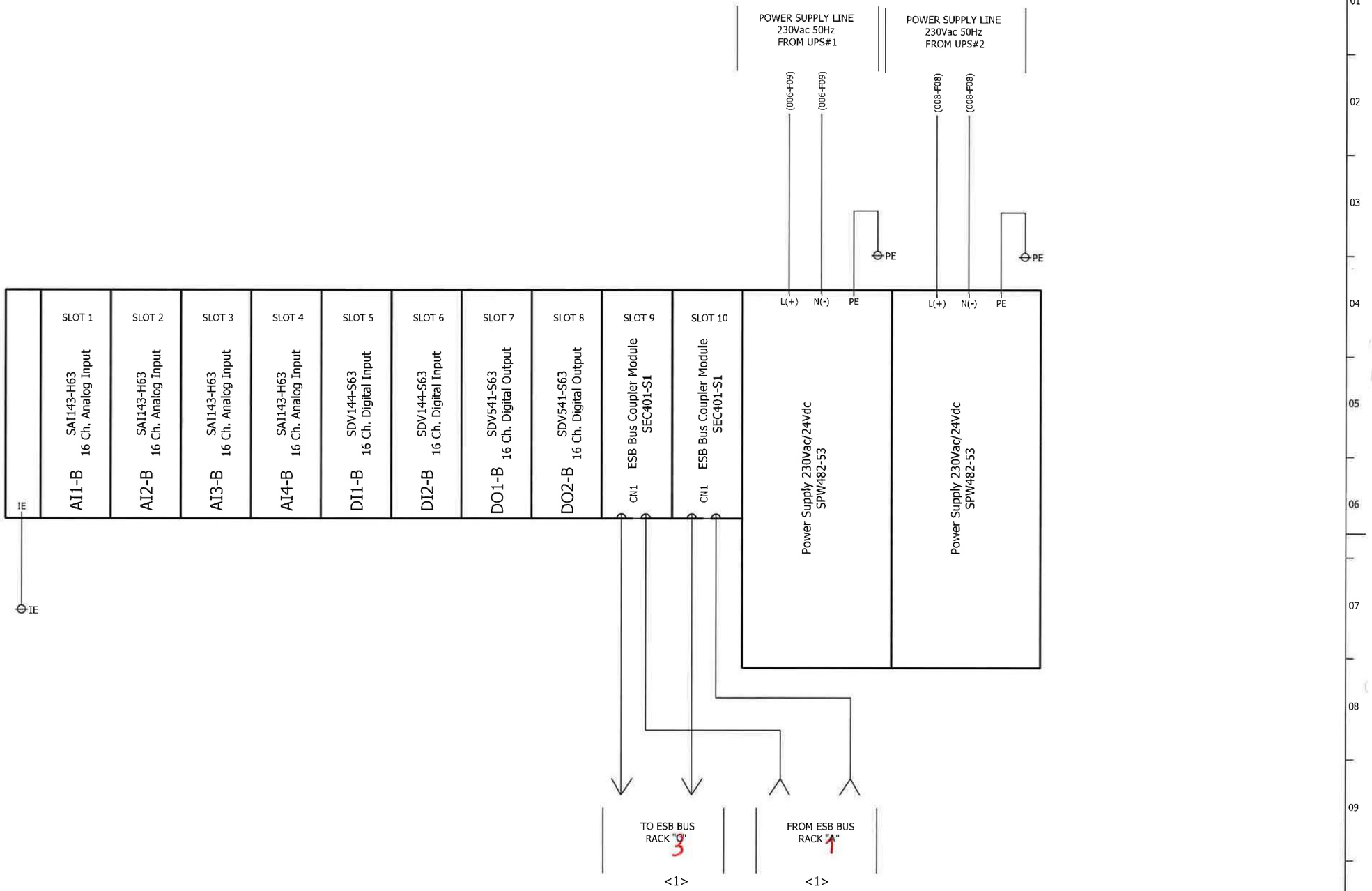
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 022

REV. 1

FGS PANEL - RACK "B" POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 023

REV. 1

FGS PANEL - RACK "C" POWER DISTRIBUTION

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#1

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#2

(006-G09)
(006-G09)
(008-G08)
(008-G08)

PE
PE

IE	SLOT 1	SLOT 2	SLOT 3	SLOT 4	SLOT 5	SLOT 6	SLOT 7	SLOT 8	SLOT 9	SLOT 10		
	AI1-C SAI143-H63 16 Ch. Analog Input	AI2-C SAI143-H63 16 Ch. Analog Input	AI3-C SAI143-H63 16 Ch. Analog Input	AI4-C SAI143-H63 16 Ch. Analog Input	DI1-C SDV144-S63 16 Ch. Digital Input	DI2-C SDV144-S63 16 Ch. Digital Input	DO1-C SDV541-S63 16 Ch. Digital Output	DO2-C SDV541-S63 16 Ch. Digital Output	CN1 ESB Bus Coupler Module SEC401-S1	CN1 ESB Bus Coupler Module SEC401-S1	L(+) N(-) PE Power Supply 230Vac/24Vdc SPW482-53	L(+) N(-) PE Power Supply 230Vac/24Vdc SPW482-53

IE

TO ESB BUS
RACK "D"
4
<1>

FROM ESB BUS
RACK "B"
2
<1>

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

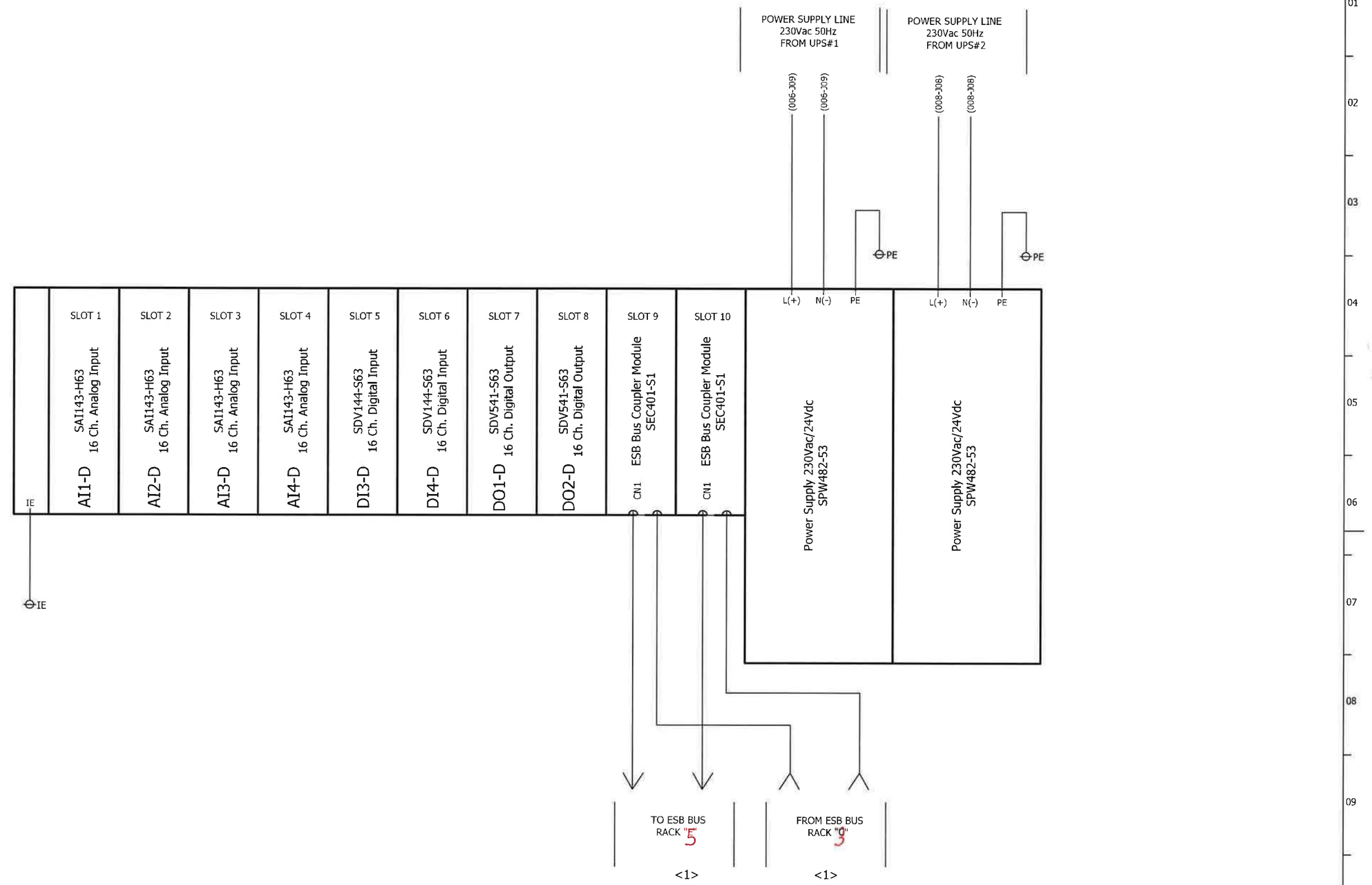
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 024

REV. 1

FGS PANEL - RACK "4" POWER DISTRIBUTION



1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

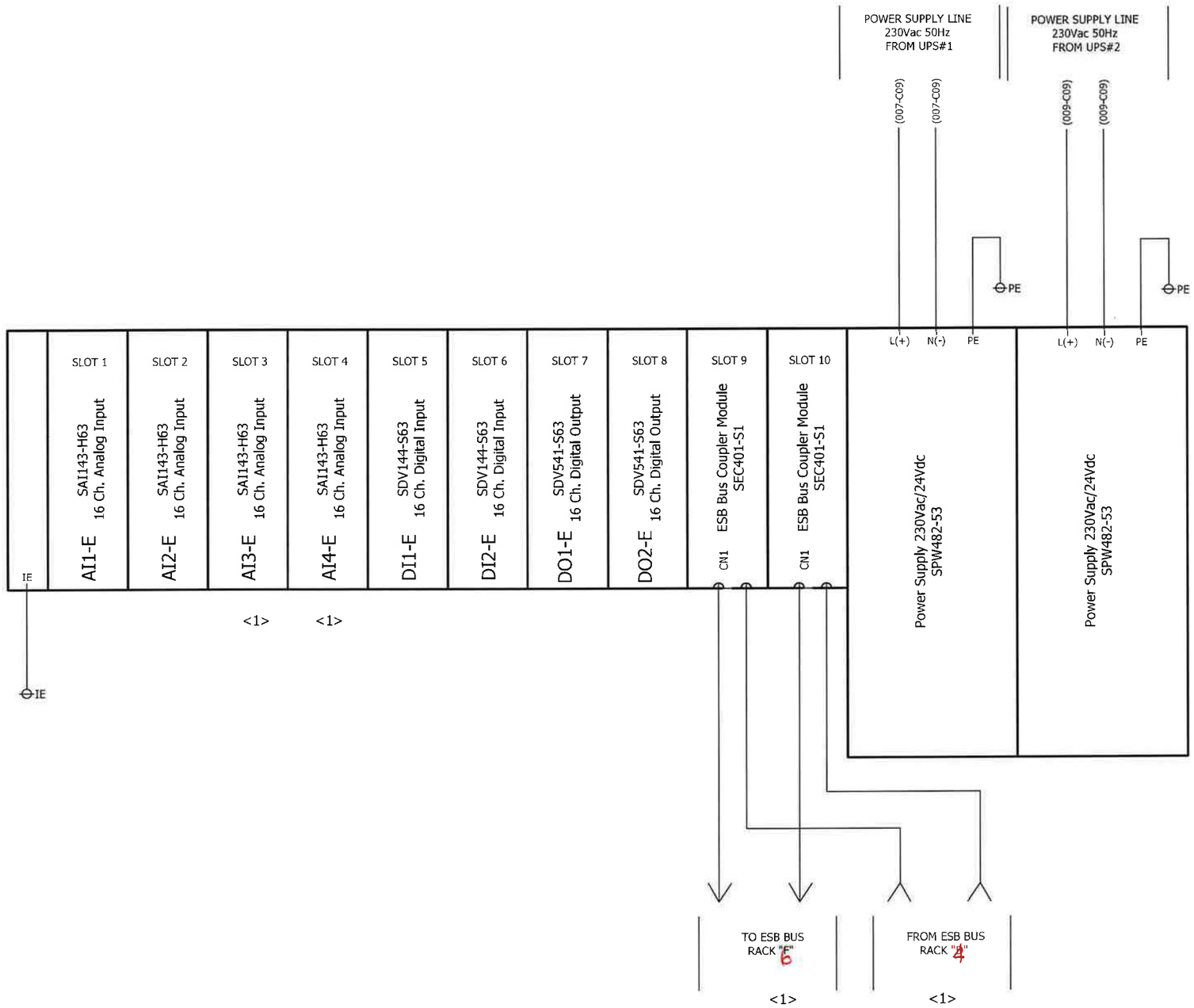
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 025

REV. 1

FGS PANEL - RACK "E" POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - RACK "5" POWER DISTRIBUTION

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

SCALE : 1

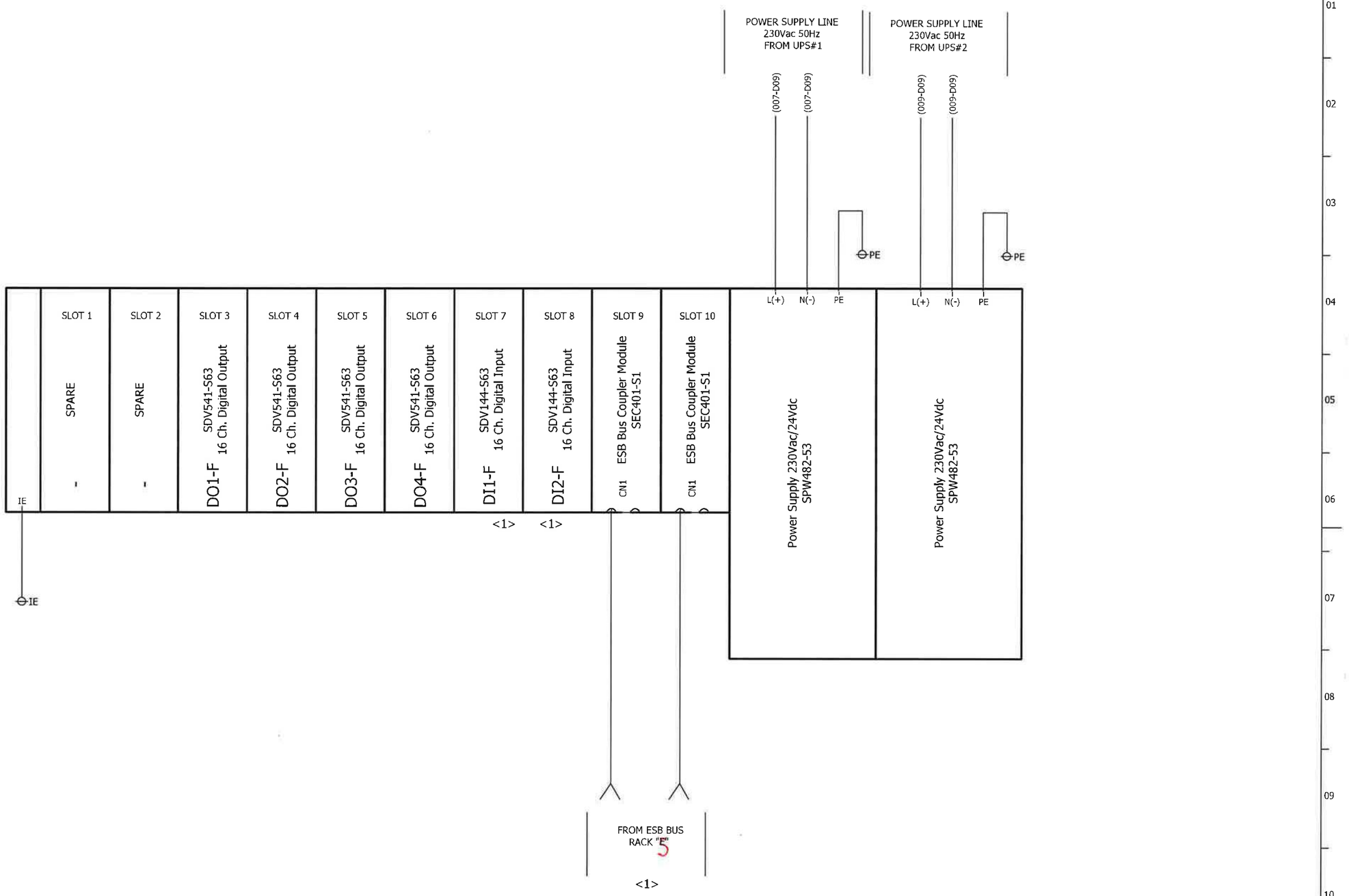
A3

DRAWING NO.
1724000594-IN-DG-00021

SHEET 026

REV. 1

FGS PANEL - RACK "6" POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - RACK "6" POWER DISTRIBUTION

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

SCALE : 1

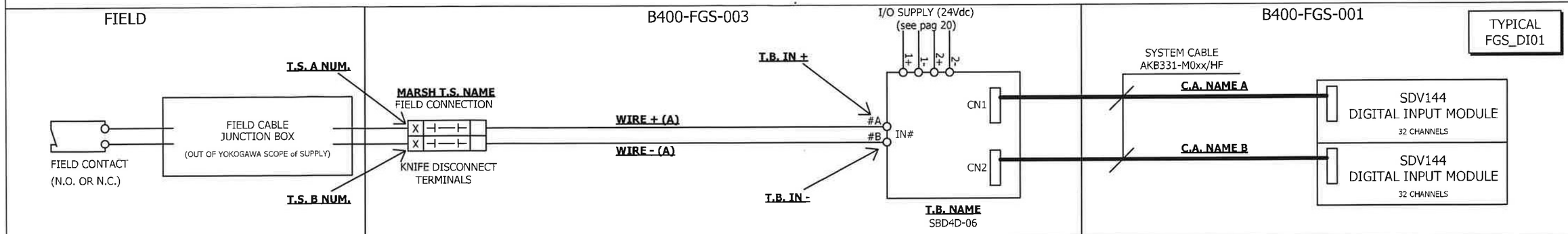
A3

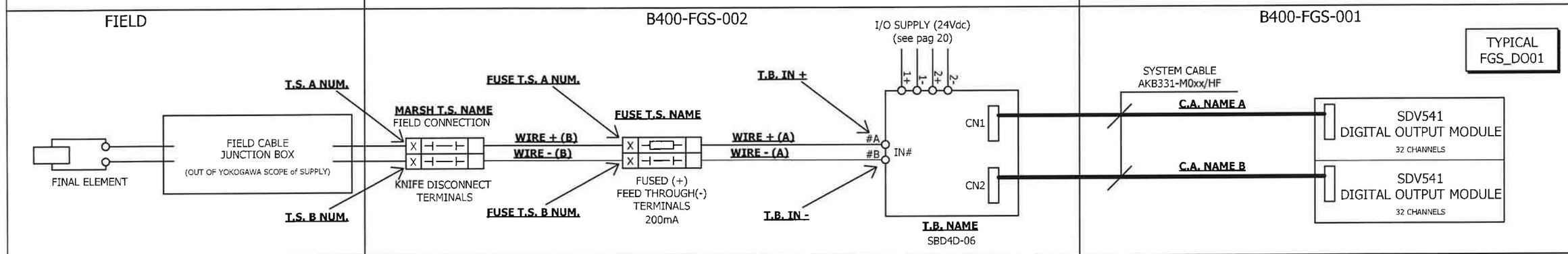
DRAWING NO. 1724000594-IN-DG-00021

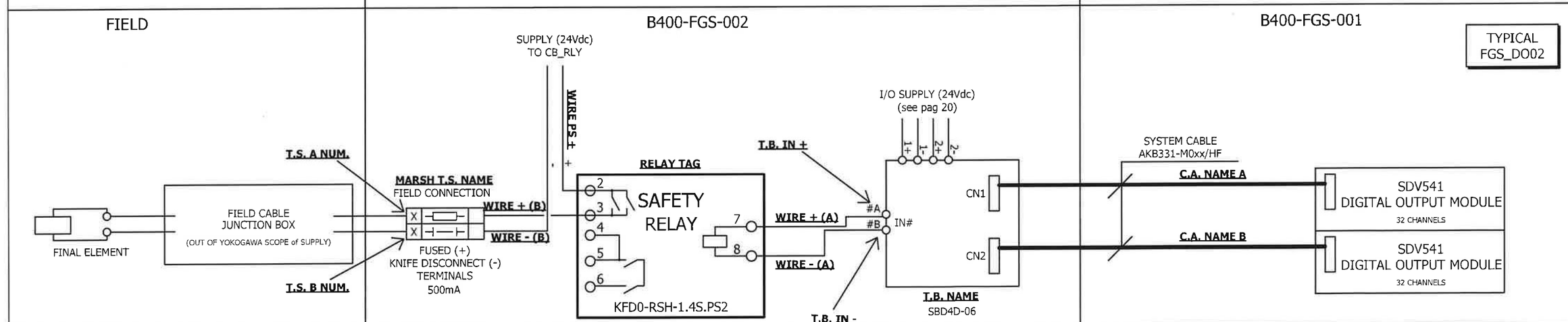
SHEET 027

REV. 1

FGS PANEL - TYPICAL WIRING DIGITAL INPUT/OUTPUT







REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

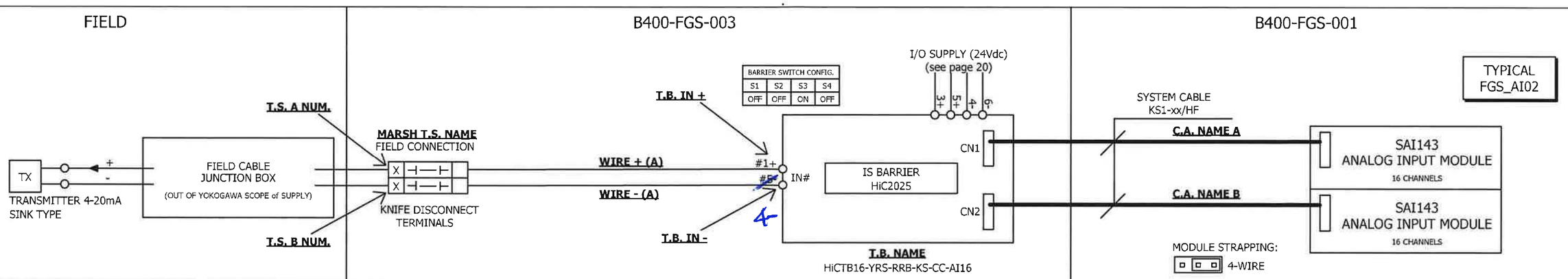
A3

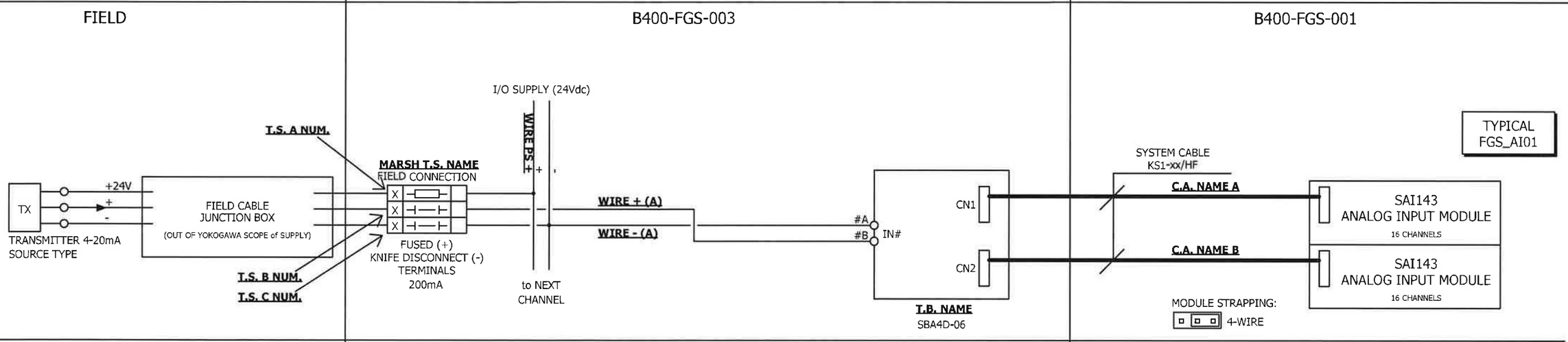
DRAWING NO.
1724000594-IN-DG-00021

SHEET 028

REV. 1

FGS PANEL - TYPICAL WIRING ANALOG INPUT





REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - TYPICAL WIRING ANALOG INPUT

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 029

REV. 1

SHEET LEFT INTENTIONALLY BLANK

1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 030

REV. 1

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-MFA-01101	DI	TB-950-JE-01103	01	02	03101	03102	1mm²	BK	WH	TB-02-05	01A	01B	02	05	01	CA_02_05	CA_02_06	FGS_DI01
950-MFA-01102	DI	TB-950-JE-01103	03	04	03103	03104	1mm²	BK	WH	TB-02-05	02A	02B	02	05	02	CA_02_05	CA_02_06	FGS_DI01
950-MFA-01103	DI	TB-950-JE-01103	05	06	03105	03106	1mm²	BK	WH	TB-02-05	03A	03B	02	05	03	CA_02_05	CA_02_06	FGS_DI01
950-MFA-03101	DI	TB-950-JE-03103	01	02	03107	03108	1mm²	BK	WH	TB-02-05	04A	04B	02	05	04	CA_02_05	CA_02_06	FGS_DI01
950-MFA-03102	DI	TB-950-JE-03103	03	04	03109	03110	1mm²	BK	WH	TB-02-05	05A	05B	02	05	05	CA_02_05	CA_02_06	FGS_DI01
950-MFA-03103	DI	TB-950-JE-03103	05	06	03111	03112	1mm²	BK	WH	TB-02-05	06A	06B	02	05	06	CA_02_05	CA_02_06	FGS_DI01
950-MFA-03104	DI	TB-950-JE-03103	07	08	03113	03114	1mm²	BK	WH	TB-02-05	07A	07B	02	05	07	CA_02_05	CA_02_06	FGS_DI01
WS0110020508	DI	TB-950-JE-03103	09	10	03115	03116	1mm²	BK	WH	TB-02-05	08A	08B	02	05	08	CA_02_05	CA_02_06	FGS_DI01
WS0110020509	DI	TB-950-JE-03103	11	12	03117	03118	1mm²	BK	WH	TB-02-05	09A	09B	02	05	09	CA_02_05	CA_02_06	FGS_DI01
950-MFA-04101	DI	TB-950-JE-04102	01	02	03119	03120	1mm²	BK	WH	TB-03-05	01A	01B	03	05	01	CA_03_05	CA_03_06	FGS_DI01
950-MFA-04102	DI	TB-950-JE-04102	03	04	03121	03122	1mm²	BK	WH	TB-03-05	02A	02B	03	05	02	CA_03_05	CA_03_06	FGS_DI01
950-MFA-05101	DI	TB-950-JE-05102	01	02	03123	03124	1mm²	BK	WH	TB-03-05	03A	03B	03	05	03	CA_03_05	CA_03_06	FGS_DI01
950-MFA-05102	DI	TB-950-JE-05102	03	04	03125	03126	1mm²	BK	WH	TB-03-05	04A	04B	03	05	04	CA_03_05	CA_03_06	FGS_DI01
950-MFA-05103	DI	TB-950-JE-05102	05	06	03127	03128	1mm²	BK	WH	TB-03-05	05A	05B	03	05	05	CA_03_05	CA_03_06	FGS_DI01
950-MFA-05104	DI	TB-950-JE-05102	07	08	03129	03130	1mm²	BK	WH	TB-03-05	06A	06B	03	05	06	CA_03_05	CA_03_06	FGS_DI01
950-MFA-06101	DI	TB-950-JE-06102	01	02	03131	03132	1mm²	BK	WH	TB-03-05	07A	07B	03	05	07	CA_03_05	CA_03_06	FGS_DI01
950-MFA-06102	DI	TB-950-JE-06102	03	04	03133	03134	1mm²	BK	WH	TB-03-05	08A	08B	03	05	08	CA_03_05	CA_03_06	FGS_DI01
WS0110030509	DI	TB-950-JE-06102	05	06	03135	03136	1mm²	BK	WH	TB-03-05	09A	09B	03	05	09	CA_03_05	CA_03_06	FGS_DI01
WS0110030510	DI	TB-950-JE-06102	07	08	03137	03138	1mm²	BK	WH	TB-03-05	10A	10B	03	05	10	CA_03_05	CA_03_06	FGS_DI01

GENERAL COMMENT: INSERT ALL SPARE TERMINALS FOR NON-WIRED SPARES

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 031

REV. 1

FGS PANEL - TB-B400-FGS-002-1 + TB-B100-HSB-001 + TB-B200-HSB-001 + TB-B300-HSB-001 + TB-B400-HSB-001

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-MFA-02101	DI	TB-B400-FGS-002-1	01	02	03201	03202	1mm²	BK	WH	TB-04-05	01A	01B	04	05	01	CA_04_05	CA_04_06	FGS_DI01
950-MFA-04201	DI	TB-B400-FGS-002-1	03	04	03203	03204	1mm²	BK	WH	TB-04-05	02A	02B	04	05	02	CA_04_05	CA_04_06	FGS_DI01
950-MFA-04202	DI	TB-B400-FGS-002-1	05	06	03205	03206	1mm²	BK	WH	TB-04-05	03A	03B	04	05	03	CA_04_05	CA_04_06	FGS_DI01
950-MFA-04203	DI	TB-B400-FGS-002-1	07	08	03207	03208	1mm²	BK	WH	TB-04-05	04A	04B	04	05	04	CA_04_05	CA_04_06	FGS_DI01
950-MFA-05201	DI	TB-B400-FGS-002-1	09	10	03209	03210	1mm²	BK	WH	TB-04-05	05A	05B	04	05	05	CA_04_05	CA_04_06	FGS_DI01
950-MFA-06201	DI	TB-B400-FGS-002-1	11	12	03211	03212	1mm²	BK	WH	TB-04-05	06A	06B	04	05	06	CA_04_05	CA_04_06	FGS_DI01
950-MFA-07101	DI	TB-B400-FGS-002-1	13	14	03213	03214	1mm²	BK	WH	TB-04-05	07A	07B	04	05	07	CA_04_05	CA_04_06	FGS_DI01
77-ZSL-001	DI	TB-B100-HSB-001	01	02	03215	03216	1mm²	BK	WH	TB-05-03	01A	01B	05	03	01	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-002	DI	TB-B100-HSB-001	03	04	03217	03218	1mm²	BK	WH	TB-05-03	02A	02B	05	03	02	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-003	DI	TB-B100-HSB-001	05	06	03219	03220	1mm²	BK	WH	TB-05-03	03A	03B	05	03	03	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-004	DI	TB-B200-HSB-001	01	02	03221	03222	1mm²	BK	WH	TB-05-03	04A	04B	05	03	04	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-005	DI	TB-B200-HSB-001	03	04	03223	03224	1mm²	BK	WH	TB-05-03	05A	05B	05	03	05	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-006	DI	TB-B200-HSB-001	05	06	03225	03226	1mm²	BK	WH	TB-05-03	06A	06B	05	03	06	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-007	DI	TB-B300-HSB-001	01	02	03227	03228	1mm²	BK	WH	TB-05-03	07A	07B	05	03	07	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-008	DI	TB-B300-HSB-001	03	04	03229	03230	1mm²	BK	WH	TB-05-03	08A	08B	05	03	08	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-009	DI	TB-B300-HSB-001	05	06	03231	03232	1mm²	BK	WH	TB-06-07	01A	01B	06	07	01	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-010	DI	TB-B300-HSB-001	07	08	03233	03234	1mm²	BK	WH	TB-06-07	02A	02B	06	07	02	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-011	DI	TB-B300-HSB-001	09	10	03235	03236	1mm²	BK	WH	TB-06-07	03A	03B	06	07	03	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-012	DI	TB-B400-HSB-001	01	02	03237	03238	1mm²	BK	WH	TB-06-07	04A	04B	06	07	04	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-013	DI	TB-B400-HSB-001	03	04	03239	03240	1mm²	BK	WH	TB-06-07	05A	05B	06	07	05	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-014	DI	TB-B400-HSB-001	05	06	03241	03242	1mm²	BK	WH	TB-06-07	06A	06B	06	07	06	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-015	DI	TB-B400-HSB-001	07	08	03243	03244	1mm²	BK	WH	TB-06-07	07A	07B	06	07	07	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-016	DI	TB-B400-HSB-001	09	10	03245	03246	1mm²	BK	WH	TB-06-07	08A	08B	06	07	08	CA_06_07	CA_06_08	FGS_DI01

FOR SIGNALS: 70-XA-051 - 70-XA-052 - 70-XA-053 - 70-XA-054 SEE PAG 021

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 032

REV. 1

FGS PANEL - AT02 + TB-P320PLC + TB-20-UCP-001 + TB-80-UCP-001 + TB-50-LP-002

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
FGS001-UA-05	DI	~~AT02~~	~~01~~	~~02~~	03301	03302	1mm²	BK	WH	TB-02-05	10A	10B	02	05	10	CA_02_05	CA_02_06	FGS_DI01
85-XA-001	DI	TB-P320PLC	01	02	03303	03304	1mm²	BK	WH	TB-05-05	01A	01B	05	05	01	CA_05_05	CA_05_06	FGS_DI01
85-XA-002	DI	TB-P320PLC	03	04	03305	03306	1mm²	BK	WH	TB-05-05	02A	02B	05	05	02	CA_05_05	CA_05_06	FGS_DI01
20-XA-001	DI	TB-20-UCP-001	01	02	03307	03308	1mm²	BK	WH	TB-05-05	03A	03B	05	05	03	CA_05_05	CA_05_06	FGS_DI01
20-XA-002	DI	TB-20-UCP-001	03	04	03309	03310	1mm²	BK	WH	TB-05-05	04A	04B	05	05	04	CA_05_05	CA_05_06	FGS_DI01
80-XA-001	DI	TB-80-UCP-001	01	02	03311	03312	1mm²	BK	WH	TB-05-05	05A	05B	05	05	05	CA_05_05	CA_05_06	FGS_DI01
80-XA-002	DI	TB-80-UCP-001	03	04	03313	03314	1mm²	BK	WH	TB-05-05	06A	06B	05	05	06	CA_05_05	CA_05_06	FGS_DI01
50-XA-001	DI	TB-50-LP-002	01	02	03315	03316	1mm²	BK	WH	TB-05-05	07A	07B	05	05	07	CA_05_05	CA_05_06	FGS_DI01
50-XA-002	DI	TB-50-LP-002	03	04	03317	03318	1mm²	BK	WH	TB-05-05	08A	08B	05	05	08	CA_05_05	CA_05_06	FGS_DI01

INSERT SPARE TERMINALS

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 033

REV. 1

SHEET LEFT INTENTIONALLY BLANK

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 034

REV. 1

A B C D E F G H J K

FGS PANEL - TB-950-JE-01104 + TB-950-JE-02104 + TB-950-JE-03104 + TB-950-JE-04103

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE + (B)	WIRE - (B)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A+B)	WIRE COLOUR - (A+B)	WIRE PS	FUSE T.S. NAME	FUSE T.S. A NUM.	FUSE T.S. B NUM.	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	RELAY TAG	TYPICAL
950-XZ-01101	DO	TB-950-JE-01104	01	02	03501	03502	03503	03504	N/A	1mm²	BK	WH	N/A	TS_02_07	1	2	TB-02-07	01A	01B	02	07	01	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-01102	DO	TB-950-JE-01104	03	04	03505	03506	03507	03508	N/A	1mm²	BK	WH	N/A	TS_02_07	3	4	TB-02-07	02A	02B	02	07	02	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-01101	DO	TB-950-JE-01104	05	06	03509	03510	03511	03512	N/A	1mm²	BK	WH	N/A	TS_02_07	5	6	TB-02-07	03A	03B	02	07	03	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-01102	DO	TB-950-JE-01104	07	08	03513	03514	03515	03516	N/A	1mm²	BK	WH	N/A	TS_02_07	7	8	TB-02-07	04A	04B	02	07	04	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-02101	DO	TB-950-JE-02104	01	02	03517	03518	03519	03520	N/A	1mm²	BK	WH	N/A	TS_02_07	9	10	TB-02-07	05A	05B	02	07	05	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-02101	DO	TB-950-JE-02104	03	04	03521	03522	03523	03524	N/A	1mm²	BK	WH	N/A	TS_02_07	11	12	TB-02-07	06A	06B	02	07	06	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-02102	DO	TB-950-JE-02104	05	06	03525	03526	03527	03528	N/A	1mm²	BK	WH	N/A	TS_02_07	13	14	TB-02-07	07A	07B	02	07	07	CA_02_07	CA_02_08	-	FGS_DO01
WS01100020714	DO	TB-950-JE-02104	07	08	03529	03530	03531	03532	N/A	1mm²	BK	WH	N/A	TS_02_07	15	16	TB-02-07	14A	14B	02	07	14	CA_02_07	CA_02_08	-	FGS_DO01
WS01100020715	DO	TB-950-JE-02104	09	10	03533	03534	03535	03536	N/A	1mm²	BK	WH	N/A	TS_02_07	17	18	TB-02-07	15A	15B	02	07	15	CA_02_07	CA_02_08	-	FGS_DO01
WS01100020716	DO	TB-950-JE-02104	11	12	03537	03538	03539	03540	N/A	1mm²	BK	WH	N/A	TS_02_07	19	20	TB-02-07	16A	16B	02	07	16	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-03101	DO	TB-950-JE-03104	01	02	03541	03542	03543	03544	N/A	1mm²	BK	WH	N/A	TS_02_07	21	22	TB-02-07	08A	08B	02	07	08	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-03102	DO	TB-950-JE-03104	03	04	03545	03546	03547	03548	N/A	1mm²	BK	WH	N/A	TS_02_07	23	24	TB-02-07	09A	09B	02	07	09	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-03101	DO	TB-950-JE-03104	05	06	03549	03550	03551	03552	N/A	1mm²	BK	WH	N/A	TS_02_07	25	26	TB-02-07	10A	10B	02	07	10	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-03102	DO	TB-950-JE-03104	07	08	03553	03554	03555	03556	N/A	1mm²	BK	WH	N/A	TS_02_07	27	28	TB-02-07	11A	11B	02	07	11	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-03103	DO	TB-950-JE-03104	09	10	03557	03558	03559	03560	N/A	1mm²	BK	WH	N/A	TS_02_07	29	30	TB-02-07	12A	12B	02	07	12	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-03104	DO	TB-950-JE-03104	11	12	03561	03562	03563	03564	N/A	1mm²	BK	WH	N/A	TS_02_07	31	32	TB-02-07	13A	13B	02	07	13	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-04101	DO	TB-950-JE-04103	01	02	03565	03566	03567	03568	N/A	1mm²	BK	WH	N/A	TS_03_07	1	2	TB-03-07	01A	01B	03	07	01	CA_03_07	CA_03_08	-	FGS_DO01
950-XZ-04102	DO	TB-950-JE-04103	03	04	03569	03570	03571	03572	N/A	1mm²	BK	WH	N/A	TS_03_07	3	4	TB-03-07	02A	02B	03	07	02	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04101	DO	TB-950-JE-04103	05	06	03573	03574	03575	03576	N/A	1mm²	BK	WH	N/A	TS_03_07	5	6	TB-03-07	03A	03B	03	07	03	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04102	DO	TB-950-JE-04103	07	08	03577	03578	03579	03580	N/A	1mm²	BK	WH	N/A	TS_03_07	7	8	TB-03-07	04A	04B	03	07	04	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04103	DO	TB-950-JE-04103	09	10	03581	03582	03583	03584	N/A	1mm²	BK	WH	N/A	TS_03_07	9	10	TB-03-07	05A	05B	03	07	05	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04104	DO	TB-950-JE-04103	11	12	03585	03586	03587	03588	N/A	1mm²	BK	WH	N/A	TS_03_07	11	12	TB-03-07	06A	06B	03	07	06	CA_03_07	CA_03_08	-	FGS_DO01

01 02 03 04 05 06 07 08 09 10

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL OUTPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 035

REV. 1

A B C D E F G H J K

FGS PANEL - TB-950-JE-04203 + TB-950-JE-04207 + TB-950-JE-05103

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE + (B)	WIRE - (B)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A+B)	WIRE COLOUR - (A+B)	WIRE PS COLOUR	FUSE T.S. NAME	FUSE T.S. A NUM.	FUSE T.S. B NUM.	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	RELAY TAG	TYPICAL
950-XZ-04203	DO	TB-950-JE-04203	01	02	03601	03602	03603	03604	N/A	1mm²	BK	WH	N/A	TS_03_07	13	14	TB-03-07	07A	07B	03	07	07	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04205	DO	TB-950-JE-04203	03	04	03605	03606	03607	03608	N/A	1mm²	BK	WH	N/A	TS_03_07	15	16	TB-03-07	08A	08B	03	07	08	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04206	DO	TB-950-JE-04203	05	06	03609	03610	03611	03612	N/A	1mm²	BK	WH	N/A	TS_03_07	17	18	TB-03-07	09A	09B	03	07	09	CA_04_07	CA_04_08	-	FGS_DO01
77-HY-004	DO	TB-950-JE-04203	07	08	03613	03614	03615	03616	03617	1mm²	BK	WH	RD	N/A			TB-03-07	11A	11B	03	07	11	CA_04_07	CA_04_08	KA2	FGS_DO02
77-HY-005	DO	TB-950-JE-04203	09	10	03618	03619	03620	03621	03622	1mm²	BK	WH	RD	N/A			TB-04-07	04A	04B	04	07	04	CA_04_07	CA_04_08	KA3	FGS_DO02
77-HY-006	DO	TB-950-JE-04203	11	12	03623	03624	03625	03626	03627	1mm²	BK	WH	RD	N/A			TB-04-07	05A	05B	04	07	05	CA_04_07	CA_04_08	KA4	FGS_DO02
950-XZ-04202	DO	TB-950-JE-04207	1	2	03628	03629	03630	03631	N/A	1mm²	BK	WH	N/A	TS_04_07	19	20	TB-04-07	01A	01B	04	07	01	CA_04_07	CA_04_08	-	FGS_DO01
950-XL-04203	DO	TB-950-JE-04207	3	4	03631	03632	03633	03634	N/A	1mm²	BK	WH	N/A	TS_04_07	21	22	TB-04-07	02A	02B	04	07	02	CA_04_07	CA_04_08	-	FGS_DO01
950-XL-04204	DO	TB-950-JE-04207	5	6	03634	03635	03636	03637	N/A	1mm²	BK	WH	N/A	TS_04_07	23	24	TB-04-07	03A	03B	04	07	03	CA_04_07	CA_04_08	-	FGS_DO01
77-HY-007	DO	TB-950-JE-04207	7	8	03638	03639	03640	03641	03642	1mm²	BK	WH	RD	N/A			TB-06-03	07A	07B	06	03	07	CA_06_05	CA_06_06	KA7	FGS_DO02
77-HY-008	DO	TB-950-JE-04207	9	10	03643	03644	03645	03646	03647	1mm²	BK	WH	RD	N/A			TB-06-03	08A	08B	06	03	08	CA_06_05	CA_06_06	KA8	FGS_DO02
77-HY-009	DO	TB-950-JE-04207	11	12	03648	03649	03650	03651	03652	1mm²	BK	WH	RD	N/A			TB-06-05	01A	01B	06	05	01	CA_06_05	CA_06_06	KA9	FGS_DO02
77-HY-010	DO	TB-950-JE-04207	13	14	03653	03654	03655	03656	03657	1mm²	BK	WH	RD	N/A			TB-06-05	02A	02B	06	05	02	CA_06_05	CA_06_06	KA10	FGS_DO02
77-HY-011	DO	TB-950-JE-04207	15	16	03658	03659	03660	03661	03662	1mm²	BK	WH	RD	N/A			TB-06-05	03A	03B	06	05	03	CA_06_05	CA_06_06	KA11	FGS_DO02
WS01210060509	DO	TB-950-JE-04207	17	18	03663	03664	03665	03666	03667	1mm²	BK	WH	RD	N/A			TB-06-05	09A	09B	06	05	09	CA_06_05	CA_06_06	KA17	FGS_DO02
WS01210060510	DO	TB-950-JE-04207	19	20	03668	03669	03670	03671	03672	1mm²	BK	WH	RD	N/A			TB-06-05	10A	10B	06	05	10	CA_06_05	CA_06_06	KA18	FGS_DO02
WS01210030712	DO	TB-950-JE-04207	21	22	03673	03674	03675	03676	03677	1mm²	BK	WH	RD	N/A			TB-03-07	12A	12B	03	07	12	CA_04_07	CA_04_08	KA19	FGS_DO02
WS01210030713	DO	TB-950-JE-04207	23	24	03678	03679	03680	03681	03682	1mm²	BK	WH	RD	N/A			TB-03-07	13A	13B	03	07	13	CA_04_07	CA_04_08	KA20	FGS_DO02
950-XZ-05101	DO	TB-950-JE-05103	01	02	03683	03684	03685	03686	N/A	1mm²	BK	WH	N/A	TS_04_07	1	2	TB-04-07	06A	06B	04	07	06	CA_04_07	CA_04_08		FGS_DO01
950-XZ-05102	DO	TB-950-JE-05103	03	04	03687	03688	03689	03690	N/A	1mm²	BK	WH	N/A	TS_04_07	3	4	TB-04-07	07A	07B	04	07	07	CA_04_07	CA_04_08		FGS_DO01
950-XZ-05103	DO	TB-950-JE-05103	05	06	03691	03692	03693	03694	N/A	1mm²	BK	WH	N/A	TS_04_07	5	6	TB-04-07	08A	08B	04	07	08	CA_04_07	CA_04_08		FGS_DO01
950-XZ-05104	DO	TB-950-JE-05103	07	08	03695	03696	03697	03698	N/A	1mm²	BK	WH	N/A	TS_04_07	7	8	TB-04-07	09A	09B	04	07	09	CA_04_07	CA_04_08	-	FGS_DO01

INSERT SPARE TERMINALS

01 02 03 04 05 06 07 08 09 10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL OUTPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 036

REV. 1

A | B | C | D | E | F | G | H | J | K

FGS PANEL - TB-950-JE-05104 + TB-950-JE-06103 + TB-950-JE-06203 + TB-950-JE-07101

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE + (B)	WIRE - (B)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A+B)	WIRE COLOUR - (A+B)	WIRE PS COLOUR	FUSE T.S. NAME	FUSE T.S. A NUM.	FUSE T.S. B NUM.	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	RELAY TAG	TYPICAL
950-XZ-05201	DO	TB-950-JE-05104	01	02	03701	03702	03703	03704	N/A	1mm²	BK	WH	N/A	TS_04_07	9	10	TB-04-07	10A	10B	04	07	10	CA_04_07	CA_04_08	-	FGS_DO01
950-XL-05201	DO	TB-950-JE-05104	03	04	03705	03706	03707	03708	N/A	1mm²	BK	WH	N/A	TS_04_07	11	12	TB-04-07	11A	11B	04	07	11	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-05202	DO	TB-950-JE-05104	05	06	03709	03710	03711	03712	N/A	1mm²	BK	WH	N/A	TS_04_07	13	14	TB-04-07	12A	12B	04	07	12	CA_05_07	CA_05_08	-	FGS_DO01
WS01[illegible]0040713	DO	TB-950-JE-05104	07	08	03713	03714	03715	03716	N/A	1mm²	BK	WH	N/A	TS_04_07	15	16	TB-04-07	13A	13B	04	07	13	CA_05_07	CA_05_08	-	FGS_DO01
WS01[illegible]0040714	DO	TB-950-JE-05104	09	10	03717	03718	03719	03720	N/A	1mm²	BK	WH	N/A	TS_04_07	17	18	TB-04-07	14A	14B	04	07	14	CA_05_07	CA_05_08	-	FGS_DO01
950-XZ-06101	DO	TB-950-JE-06103	01	02	03721	03722	03723	03724	N/A	1mm²	BK	WH	N/A	TS_05_07	1	2	TB-05-07	01A	01B	05	07	01	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-06101	DO	TB-950-JE-06103	03	04	03725	03726	03727	03728	N/A	1mm²	BK	WH	N/A	TS_05_07	3	4	TB-05-07	02A	02B	05	07	02	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-06102	DO	TB-950-JE-06103	05	06	03729	03730	03731	03732	N/A	1mm²	BK	WH	N/A	TS_05_07	5	6	TB-05-07	03A	03B	05	07	03	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-06103	DO	TB-950-JE-06103	07	08	03733	03734	03735	03736	N/A	1mm²	BK	WH	N/A	TS_05_07	7	8	TB-05-07	04A	04B	05	07	04	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-06104	DO	TB-950-JE-06103	09	10	03737	03738	03739	03740	N/A	1mm²	BK	WH	N/A	TS_05_07	9	10	TB-05-07	05A	05B	05	07	05	CA_06_05	CA_06_06	-	FGS_DO01
WS01[illegible]0050711	DO	TB-950-JE-06103	11	12	03741	03742	03743	03744	N/A	1mm²	BK	WH	N/A	TS_05_07	11	12	TB-05-07	11A	11B	05	07	11	CA_06_05	CA_06_06	-	FGS_DO01
950-XZ-06201	DO	TB-950-JE-06203	01	02	03745	03746	03747	03748	N/A	1mm²	BK	WH	N/A	TS_05_07	13	14	TB-05-07	06A	06B	05	07	06	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-06201	DO	TB-950-JE-06203	03	04	03749	03750	03751	03752	N/A	1mm²	BK	WH	N/A	TS_05_07	15	16	TB-05-07	07A	07B	05	07	07	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-06202	DO	TB-950-JE-06203	05	06	03753	03754	03755	03756	N/A	1mm²	BK	WH	N/A	TS_05_07	17	18	TB-05-07	08A	08B	05	07	08	CA_05_07	CA_05_08	-	FGS_DO01
77-HY-001	DO	TB-950-JE-06203	07	08	03757	03758	03759	03760	03761	1mm²	BK	WH	RD	N/A			TB-05-07	09A	09B	05	07	09	CA_05_07	CA_05_08	KA5	FGS_DO02
77-HY-002	DO	TB-950-JE-06203	09	10	03762	03763	03764	03765	03766	1mm²	BK	WH	RD	N/A			TB-05-07	10A	10B	05	07	10	CA_05_07	CA_05_08	KA6	FGS_DO02
77-HY-003	DO	TB-950-JE-06203	11	12	03767	03768	03769	03770	03771	1mm²	BK	WH	RD	N/A			TB-03-07	10A	10B	03	07	10	CA_03_07	CA_03_08	KA1	FGS_DO02
950-XZ-07101	DO	TB-950-JE-07101	01	02	03772	03773	03774	03775	N/A	1mm²	BK	WH	N/A	TS_06_03	1	2	TB-06-03	01A	01B	06	03	01	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-07101	DO	TB-950-JE-07101	03	04	03776	03777	03778	03779	N/A	1mm²	BK	WH	N/A	TS_06_03	3	4	TB-06-03	02A	02B	06	03	02	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-07102	DO	TB-950-JE-07101	05	06	03780	03781	03782	03783	N/A	1mm²	BK	WH	N/A	TS_06_03	5	6	TB-06-03	03A	03B	06	03	03	CA_06_03	CA_06_04	-	FGS_DO01
WS01[illegible]0050712	DO	TB-950-JE-07101	07	08	03784	03785	03786	03787	N/A	1mm²	BK	WH	N/A	TS_05_07	19	20	TB-05-07	12A	12B	05	07	12	CA_05_07	CA_05_08	-	FGS_DO01
WS01[illegible]0060310	DO	TB-950-JE-07101	09	10	03788	03789	03790	03791	N/A	1mm²	BK	WH	N/A	TS_06_03	7	8	TB-06-03	10A	10B	06	03	10	CA_06_03	CA_06_04	-	FGS_DO01
WS01[illegible]0060311	DO	TB-950-JE-07101	11	12	03792	03793	03794	03795	N/A	1mm²	BK	WH	N/A	TS_06_03	9	10	TB-06-03	11A	11B	06	03	11	CA_06_03	CA_06_04	-	FGS_DO01

INSERT SPARE TERMINALS

01 02 03 04 05 06 07 08 09 10

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL OUTPUT SIGNALS

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

A3 | DRAWING NO. 1724000594-IN-DG-00021 | SHEET 037 | REV. 1

FGS PANEL - TB-B400-FGS-002-4 + TB-B400-FGS-002-5 + TB-B400-FGS-002-6 + TB-NC-200F2.01 + TB-NC-200F2.02

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S.B NUM.	WIRE + (A)	WIRE - (A)	WIRE + (B)	WIRE - (B)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A+B)	WIRE COLOUR - (A+B)	WIRE PS COLOUR	FUSE T.S. NAME	FUSE T.S. A NUM.	FUSE T.S. B NUM.	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	RELAY TAG	TYPICAL
77-HY-015	DO	TB-B400-FGS-002-4	01	02	03801	03802	03803	03804	03805	1mm²	BK	WH	RD	N/A			TB-06-05	07A	07B	06	05	07	CA_06_05	CA_06_06	KA15	FGS_DO02
77-HY-016	DO	TB-B400-FGS-002-4	03	04	03806	03807	03808	03809	03810	1mm²	BK	WH	RD	N/A			TB-06-05	08A	08B	06	05	08	CA_06_05	CA_06_06	KA16	FGS_DO02
77-HY-012	DO	TB-B400-FGS-002-5	01	02	03811	03812	03813	03814	03815	1mm²	BK	WH	RD	N/A			TB-06-05	04A	04B	06	05	04	CA_06_05	CA_06_06	KA12	FGS_DO02
77-HY-013	DO	TB-B400-FGS-002-5	03	04	03816	03817	03818	03819	03820	1mm²	BK	WH	RD	N/A			TB-06-05	05A	05B	06	05	05	CA_06_05	CA_06_06	KA13	FGS_DO02
77-HY-014	DO	TB-B400-FGS-002-5	05	06	03821	03822	03823	03824	03825	1mm²	BK	WH	RD	N/A			TB-06-05	06A	06B	06	05	06	CA_06_05	CA_06_06	KA14	FGS_DO02
950-XZ-04201	DO	TB-B400-FGS-002-6	01	02	03826	03827	03828	03829	N/A	1mm²	BK	WH	N/A	TS_06_03	11	12	TB-06-03	04A	04B	06	03	04	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-04201	DO	TB-B400-FGS-002-6	03	04	03830	03831	03832	03833	N/A	1mm²	BK	WH	N/A	TS_06_03	13	14	TB-06-03	05A	05B	06	03	05	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-04202	DO	TB-B400-FGS-002-6	05	06	03834	03835	03836	03837	N/A	1mm²	BK	WH	N/A	TS_06_03	15	16	TB-06-03	06A	06B	06	03	06	CA_06_03	CA_06_04	-	FGS_DO01
72-XS-001	DO	TB-NC-200F2.01	01	02	03838	03839	03840	03841	N/A	1mm²	BK	WH	N/A	TS_06_03	17	18	TB-06-03	09A	09B	06	03	09	CA_06_03	CA_06_04	-	FGS_DO01
72-XS-002	DO	TB-NC-200F2.01	03	04	03842	03843	03844	03845	N/A	1mm²	BK	WH	N/A	TS_06_05	19	20	TB-06-05	11A	11B	06	05	11	CA_06_05	CA_06_06	-	FGS_DO01

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL OUTPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 038

REV. 1

SHEET LEFT INTENTIONALLY BLANK

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00021

SHEET 039

REV. 1

FGS PANEL - TB-950-JE-01101 + TB-950-JE-01102 + TB-950-JE-02101

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR +(A)	WIRE COLOUR -(B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-FDZ-01101	AI	TB-950-JE-01101	01	02	03	04001	04002	04003	1mm²	BK	WH	RD	TB-02-01	05A	05B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-FDZ-01102	AI	TB-950-JE-01101	04	05	06	04004	04005	04006	1mm²	BK	WH	RD	TB-02-03	05A	05B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-FDZ-01103	AI	TB-950-JE-01101	07	08	09	04007	04008	04009	1mm²	BK	WH	RD	TB-03-01	05A	05B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-FDZ-01104	AI	TB-950-JE-01101	10	11	12	04010	04011	04012	1mm²	BK	WH	RD	TB-03-03	05A	05B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
WS0120020112	AI	TB-950-JE-01101	13	14	15	04013	04014	04015	1mm²	BK	WH	RD	TB-02-01	12A	12B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-01101	AI	TB-950-JE-01102	1	2	3	04016	04017	04018	1mm²	BK	WH	RD	TB-02-01	11A	11B	1	2	3	CA_1_2	CA_1_03	FGS_AI01
950-GDZ-01102	AI	TB-950-JE-01102	4	5	6	04019	04020	04021	1mm²	BK	WH	RD	TB-02-03	13A	13B	4	5	6	CA_4_5	CA_4_06	FGS_AI01
950-GDZ-01103	AI	TB-950-JE-01102	7	8	9	04022	04023	04024	1mm²	BK	WH	RD	TB-04-01	16A	16B	7	8	9	CA_7_8	CA_7_09	FGS_AI01
WS0120020113	AI	TB-950-JE-01102	10	11	12	04025	04026	04027	1mm²	BK	WH	RD	TB-02-01	13A	13B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
WS0120020315	AI	TB-950-JE-01102	13	14	15	04028	04029	04030	1mm²	BK	WH	RD	TB-02-03	15A	15B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-FDZ-02101	AI	TB-950-JE-02101	01	02	03	04031	04032	04033	1mm²	BK	WH	RD	TB-02-01	04A	04B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-FDZ-02102	AI	TB-950-JE-02101	04	05	06	04034	04035	04036	1mm²	BK	WH	RD	TB-02-03	04A	04B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-FDZ-02103	AI	TB-950-JE-02101	07	08	09	04037	04038	04039	1mm²	BK	WH	RD	TB-03-01	04A	04B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-FDZ-02104	AI	TB-950-JE-02101	10	11	12	04040	04041	04042	1mm²	BK	WH	RD	TB-03-03	04A	04B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-02101	AI	TB-950-JE-02101	13	14	15	04043	04044	04045	1mm²	BK	WH	RD	TB-02-01	01A	01B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-02102	AI	TB-950-JE-02101	16	17	18	04046	04047	04048	1mm²	BK	WH	RD	TB-02-01	02A	02B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-02103	AI	TB-950-JE-02101	19	20	21	04049	04050	04051	1mm²	BK	WH	RD	TB-02-01	03A	03B	19	20	21	CA_19_20	CA_19_021	FGS_AI01
950-GDZ-02104	AI	TB-950-JE-02101	22	23	24	04052	04053	04054	1mm²	BK	WH	RD	TB-02-03	01A	01B	22	23	24	CA_22_23	CA_22_024	FGS_AI01
950-GDZ-02105	AI	TB-950-JE-02101	25	26	27	04055	04056	04057	1mm²	BK	WH	RD	TB-02-03	02A	02B	25	26	27	CA_25_26	CA_25_027	FGS_AI01
950-GDZ-02106	AI	TB-950-JE-02101	28	29	30	04058	04059	04060	1mm²	BK	WH	RD	TB-02-03	03A	03B	28	29	30	CA_28_29	CA_28_030	FGS_AI01
WS0120020316	AI	TB-950-JE-02101	31	32	33	04061	04062	04063	1mm²	BK	WH	RD	TB-02-03	16A	16B	31	32	33	CA_31_32	CA_31_033	FGS_AI01
WS0120030114	AI	TB-950-JE-02101	34	35	36	04064	04065	04066	1mm²	BK	WH	RD	TB-03-01	14A	14B	34	35	36	CA_34_35	CA_34_036	FGS_AI01

INSERT SPARE TERMINALS

~~FOR SIGNALS: 950-GDZ-01101-PS, 950-GDZ-01102-PS, 950-GDZ-01103-PS SEE PAG 021~~

TO REPLACE WITH RIGHT ASSIGNMENT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 040

REV. 1

A B C D E F G H J K

FGS PANEL - TB-950-JE-02102 + TB-950-JE-03101 + TB-950-JE-02103

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A)	WIRE COLOUR - (B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-GDZ-02107	AI	TB-950-JE-02102	01	02	03	04101	04102	04103	1mm²	BK	WH	RD	TB-03-01	01A	01B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-02108	AI	TB-950-JE-02102	04	05	06	04104	04105	04106	1mm²	BK	WH	RD	TB-03-01	02A	02B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-02109	AI	TB-950-JE-02102	07	08	09	04107	04108	04109	1mm²	BK	WH	RD	TB-03-01	03A	03B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-02110	AI	TB-950-JE-02102	10	11	12	04110	04111	04112	1mm²	BK	WH	RD	TB-03-03	01A	01B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-02111	AI	TB-950-JE-02102	13	14	15	04113	04114	04115	1mm²	BK	WH	RD	TB-03-03	02A	02B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-02112	AI	TB-950-JE-02102	16	17	18	04116	04117	04118	1mm²	BK	WH	RD	TB-03-03	03A	03B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-02113	AI	TB-950-JE-02102	19	20	21	04119	04120	04121	1mm²	BK	WH	RD	TB-04-01	01A	01B	19	20	21	CA_19_20	CA_19_021	FGS_AI01
950-GDZ-02114	AI	TB-950-JE-02102	22	23	24	04122	04123	04124	1mm²	BK	WH	RD	TB-04-01	02A	02B	22	23	24	CA_22_23	CA_22_024	FGS_AI01
950-GDZ-02115	AI	TB-950-JE-02102	25	26	27	04125	04126	04127	1mm²	BK	WH	RD	TB-04-01	03A	03B	25	26	27	CA_25_26	CA_25_027	FGS_AI01
950-GDZ-02116	AI	TB-950-JE-02102	28	29	30	04128	04129	04130	1mm²	BK	WH	RD	TB-04-03	01A	01B	28	29	30	CA_28_29	CA_28_030	FGS_AI01
WS0120040113	AI	TB-950-JE-02102	31	32	33	04131	04132	04133	1mm²	BK	WH	RD	TB-04-01	13A	13B	31	32	33	CA_31_32	CA_31_033	FGS_AI01
WS0120040314	AI	TB-950-JE-02102	34	35	36	04134	04135	04136	1mm²	BK	WH	RD	TB-04-03	14A	14B	34	35	36	CA_34_35	CA_34_036	FGS_AI01
~~950-FDZ-03101~~	~~AI~~	~~TB-950-JE-03101~~	~~01~~	~~02~~	~~03~~	~~04137~~	~~04138~~	~~04139~~	~~1mm²~~	~~BK~~	~~WH~~	~~RD~~	~~TB-02-01~~	~~07A~~	~~07B~~	~~01~~	~~02~~	~~03~~	~~CA_01_02~~	~~CA_01_03~~	~~FGS_AI01~~
950-GDZ-02117	AI	TB-950-JE-02103	1	2	3	04140	04141	04142	1mm²	BK	WH	RD	TB-04-03	02A	02B	1	2	3	CA_1_2	CA_1_03	FGS_AI01
950-GDZ-02118	AI	TB-950-JE-02103	4	5	6	04143	04144	04145	1mm²	BK	WH	RD	TB-04-03	03A	03B	4	5	6	CA_4_5	CA_4_06	FGS_AI01
950-GDZ-02119	AI	TB-950-JE-02103	7	8	9	04146	04147	04148	1mm²	BK	WH	RD	TB-05-01	01A	01B	7	8	9	CA_7_8	CA_7_09	FGS_AI01
950-GDZ-02120	AI	TB-950-JE-02103	10	11	12	04149	04150	04151	1mm²	BK	WH	RD	TB-05-01	02A	02B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
WS0120040315	AI	TB-950-JE-02103	13	14	15	04152	04153	04154	1mm²	BK	WH	RD	TB-04-03	15A	15B	13	14	15	CA_13_14	CA_13_015	FGS_AI01

~~FOR SIGNALS: 950-GDZ-02117-PS, 950-GDZ-02118-PS, 950-GDZ-02119-PS, 950-GDZ-02120-PS SEE PAG 021~~

DUPLICATED!

REPLACE WITH RIGHT ASSIGNMENT

01 02 03 04 05 06 07 08 09 10

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 041

REV. 1

FGS PANEL - TB-950-JE-03101 + TB-950-JE-03102 + TB-950-JE-04101

950-GDZ-03105

	TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A)	WIRE COLOUR - (B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
GDZ	950-~~FDZ~~-03101	AI	TB-950-JE-03101	01	02	03	04201	04202	04203	1mm²	BK	WH	RD	TB-02-01	07A	07B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
GDZ	950-~~FDZ~~-03102	AI	TB-950-JE-03101	04	05	06	04204	04205	04206	1mm²	BK	WH	RD	TB-02-03	07A	07B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
GDZ	950-~~FDZ~~-03103	AI	TB-950-JE-03101	07	08	09	04207	04208	04209	1mm²	BK	WH	RD	TB-03-01	07A	07B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
GDZ	950-~~FDZ~~-03104	AI	TB-950-JE-03101	10	11	12	04210	04211	04212	1mm²	BK	WH	RD	TB-03-03	07A	07B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
	950-GDZ-03107	AI	TB-950-JE-03101	13	14	15	04213	04214	04215	1mm²	BK	WH	RD	TB-02-01	08A	08B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
	950-GDZ-03108	AI	TB-950-JE-03101	16	17	18	04216	04217	04218	1mm²	BK	WH	RD	TB-02-03	08A	08B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
	950-GDZ-03109	AI	TB-950-JE-03101	19	20	21	04219	04220	04221	1mm²	BK	WH	RD	TB-03-01	08A	08B	19	20	21	CA_19_20	CA_19_021	FGS_AI01
	~~WS0110020114~~	AI	TB-950-JE-03101	22	23	24	04222	04223	04224	1mm²	BK	WH	RD	TB-02-01	14A	14B	22	23	24	CA_22_23	CA_22_024	FGS_AI01
	WS0120020115	AI	TB-950-JE-03101	25	26	27	04225	04226	04227	1mm²	BK	WH	RD	TB-02-01	15A	15B	25	26	27	CA_25_26	CA_25_027	FGS_AI01
	WS0120030115	AI	TB-950-JE-03101	28	29	30	04228	04229	04230	1mm²	BK	WH	RD	TB-03-01	15A	15B	28	29	30	CA_28_29	CA_28_030	FGS_AI01
	WS0120030116	AI	TB-950-JE-03101	31	32	33	04231	04232	04233	1mm²	BK	WH	RD	TB-03-01	16A	16B	31	32	33	CA_31_32	CA_31_033	FGS_AI01
	WS0120030311	AI	TB-950-JE-03101	34	35	36	04234	04235	04236	1mm²	BK	WH	RD	TB-03-03	11A	11B	34	35	36	CA_34_35	CA_34_036	FGS_AI01
FDZ	950-~~GDZ~~-03101	AI	TB-950-JE-03102	1	2	3	04237	04238	04239	1mm²	BK	WH	RD	TB-03-01	13A	13B	1	2	3	CA_1_2	CA_1_03	FGS_AI01
FDZ	950-~~GDZ~~-03102	AI	TB-950-JE-03102	4	5	6	04240	04241	04242	1mm²	BK	WH	RD	TB-03-03	08A	08B	4	5	6	CA_4_5	CA_4_06	FGS_AI01
FDZ	950-~~GDZ~~-03103	AI	TB-950-JE-03102	7	8	9	04243	04244	04245	1mm²	BK	WH	RD	TB-04-01	08A	08B	7	8	9	CA_7_8	CA_7_09	FGS_AI01
FDZ	950-~~GDZ~~-03104	AI	TB-950-JE-03102	10	11	12	04246	04247	04248	1mm²	BK	WH	RD	TB-04-03	08A	08B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
	~~950-GDZ-03105~~	AI	TB-950-JE-03102	13	14	15	04249	04250	04251	1mm²	BK	WH	RD	TB-05-01	08A	08B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
	WS0120030312	AI	TB-950-JE-03102	16	17	18	04252	04253	04254	1mm²	BK	WH	RD	TB-03-03	12A	12B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
	950-FDZ-04101	AI	TB-950-JE-04101	01	02	03	04255	04256	04257	1mm²	BK	WH	RD	TB-02-01	06A	06B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
	950-FDZ-04102	AI	TB-950-JE-04101	04	05	06	04258	04259	04260	1mm²	BK	WH	RD	TB-02-03	06A	06B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
	950-FDZ-04103	AI	TB-950-JE-04101	07	08	09	04261	04262	04263	1mm²	BK	WH	RD	TB-03-01	06A	06B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
	950-FDZ-04104	AI	TB-950-JE-04101	10	11	12	04264	04265	04266	1mm²	BK	WH	RD	TB-03-03	06A	06B	10	11	12	CA_10_11	CA_10_012	FGS_AI01

FOR SIGNALS: 950-GDZ-03101-PS, 950-GDZ-03102-PS, 950-GDZ-03103-PS, 950-GDZ-03104-PS, 950-GDZ-03105-PS SEE PAG 021

WIRED SPARE (WS0120020114)

REPLACE WITH RIGHT ASSIGNMENT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 042

REV. 1

FGS PANEL - TB-950-JE-04201 + TB-950-JE-04205 + TB-950-JE-05101

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A)	WIRE COLOUR - (B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-GDZ-04213	AI	TB-950-JE-04201	01	02	03	04301	04302	04303	1mm²	BK	WH	RD	TB-02-01	09A	09B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-04214	AI	TB-950-JE-04201	04	05	06	04304	04305	04306	1mm²	BK	WH	RD	TB-02-03	11A	11B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-04215	AI	TB-950-JE-04201	07	08	09	04307	04308	04309	1mm²	BK	WH	RD	TB-03-01	11A	11B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-04216	AI	TB-950-JE-04201	10	11	12	04310	04311	04312	1mm²	BK	WH	RD	TB-02-01	10A	10B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-04217	AI	TB-950-JE-04201	13	14	15	04313	04314	04315	1mm²	BK	WH	RD	TB-02-03	12A	12B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-04218	AI	TB-950-JE-04201	16	17	18	04316	04317	04318	1mm²	BK	WH	RD	TB-03-01	12A	12B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-04207	AI	TB-950-JE-04205	01	02	03	04319	04320	04321	1mm²	BK	WH	RD	TB-04-01	04A	04B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-04208	AI	TB-950-JE-04205	04	05	06	04322	04323	04324	1mm²	BK	WH	RD	TB-04-03	04A	04B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-04209	AI	TB-950-JE-04205	07	08	09	04325	04326	04327	1mm²	BK	WH	RD	TB-05-01	04A	04B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-04210	AI	TB-950-JE-04205	10	11	12	04328	04329	04330	1mm²	BK	WH	RD	TB-04-01	05A	05B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-04211	AI	TB-950-JE-04205	13	14	15	04331	04332	04333	1mm²	BK	WH	RD	TB-04-03	05A	05B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-04212	AI	TB-950-JE-04205	16	17	18	04334	04335	04336	1mm²	BK	WH	RD	TB-05-01	05A	05B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-FDZ-05101	AI	TB-950-JE-05101	01	02	03	04337	04338	04339	1mm²	BK	WH	RD	TB-02-03	10A	10B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-FDZ-05102	AI	TB-950-JE-05101	04	05	06	04340	04341	04342	1mm²	BK	WH	RD	TB-03-01	10A	10B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-FDZ-05103	AI	TB-950-JE-05101	07	08	09	04343	04344	04345	1mm²	BK	WH	RD	TB-03-03	10A	10B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-FDZ-05104	AI	TB-950-JE-05101	10	11	12	04346	04347	04348	1mm²	BK	WH	RD	TB-04-01	10A	10B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-05101	AI	TB-950-JE-05101	13	14	15	04349	04350	04351	1mm²	BK	WH	RD	TB-02-03	09A	09B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-05102	AI	TB-950-JE-05101	16	17	18	04352	04353	04354	1mm²	BK	WH	RD	TB-03-01	09A	09B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-05103	AI	TB-950-JE-05101	19	20	21	04355	04356	04357	1mm²	BK	WH	RD	TB-03-03	09A	09B	19	20	21	CA_19_20	CA_19_021	FGS_AI01
950-GDZ-05104	AI	TB-950-JE-05101	22	23	24	04358	04359	04360	1mm²	BK	WH	RD	TB-04-01	09A	09B	22	23	24	CA_22_23	CA_22_024	FGS_AI01
950-GDZ-05105	AI	TB-950-JE-05101	25	26	27	04361	04362	04363	1mm²	BK	WH	RD	TB-04-03	09A	09B	25	26	27	CA_25_26	CA_25_027	FGS_AI01
950-GDZ-05106	AI	TB-950-JE-05101	28	29	30	04364	04365	04366	1mm²	BK	WH	RD	TB-05-01	09A	09B	28	29	30	CA_28_29	CA_28_030	FGS_AI01
WS0110040114	AI	TB-950-JE-05101	31	32	33	04367	04368	04369	1mm²	BK	WH	RD	TB-04-01	14A	14B	31	32	33	CA_31_32	CA_31_033	FGS_AI01
WS0110040115	AI	TB-950-JE-05101	34	35	36	04370	04371	04372	1mm²	BK	WH	RD	TB-04-01	15A	15B	34	35	36	CA_34_35	CA_34_036	FGS_AI01

REPLACE WITH RIGHT ASSIGNMENT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 043

REV. 1

FGS PANEL - TB-950-JE-06101 + TB-950-JE-06201 + TB-B400-FGS-002-3

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A)	WIRE COLOUR - (B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-FDZ-06101	AI	TB-950-JE-06101	01	02	03	04401	04402	04403	1mm²	BK	WH	RD	TB-04-03	10A	10B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-FDZ-06103	AI	TB-950-JE-06101	04	05	06	04404	04405	04406	1mm²	BK	WH	RD	TB-05-01	10A	10B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
WS012 0050113	AI	TB-950-JE-06101	07	08	09	04407	04408	04409	1mm²	BK	WH	RD	TB-05-01	13A	13B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
WS012 0050114	AI	TB-950-JE-06101	10	11	12	04410	04411	04412	1mm²	BK	WH	RD	TB-05-01	14A	14B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-06201	AI	TB-950-JE-06201	01	02	03	04413	04414	04415	1mm²	BK	WH	RD	TB-04-01	06A	06B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-06202	AI	TB-950-JE-06201	04	05	06	04416	04417	04418	1mm²	BK	WH	RD	TB-04-03	06A	06B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-06203	AI	TB-950-JE-06201	07	08	09	04419	04420	04421	1mm²	BK	WH	RD	TB-05-01	06A	06B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-06204	AI	TB-950-JE-06201	10	11	12	04422	04423	04424	1mm²	BK	WH	RD	TB-04-01	07A	07B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-06205	AI	TB-950-JE-06201	13	14	15	04425	04426	04427	1mm²	BK	WH	RD	TB-04-03	07A	07B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-06206	AI	TB-950-JE-06201	16	17	18	04428	04429	04430	1mm²	BK	WH	RD	TB-05-01	07A	07B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-04201	AI	TB-B400-FGS-002-3	01	02	03	04431	04432	04433	1mm²	BK	WH	RD	TB-04-01	11A	11B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-04202	AI	TB-B400-FGS-002-3	04	05	06	04434	04435	04436	1mm²	BK	WH	RD	TB-04-03	11A	11B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-04203	AI	TB-B400-FGS-002-3	07	08	09	04437	04438	04439	1mm²	BK	WH	RD	TB-05-01	11A	11B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-04204	AI	TB-B400-FGS-002-3	10	11	12	04440	04441	04442	1mm²	BK	WH	RD	TB-04-01	12A	12B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-04205	AI	TB-B400-FGS-002-3	13	14	15	04443	04444	04445	1mm²	BK	WH	RD	TB-04-03	12A	12B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-04206	AI	TB-B400-FGS-002-3	16	17	18	04446	04447	04448	1mm²	BK	WH	RD	TB-05-01	12A	12B	16	17	18	CA_16_17	CA_16_018	FGS_AI01

INSERT SPARE TERMINALS

REPLACE WITH RIGHT ASSIGNMENT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 044

REV. 1

SHEET LEFT INTENTIONALLY BLANK

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 045

REV. 1

A - GENERAL DATA

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

B - MECHANICAL DATA

B1	OVERALL DIMENSION	SIS 800 mm x 800 mm x 2100 mm (L x D x H) (NOTE B1) FGS 2400 mm x 800 mm x 2100mm (L x D x H) <1>		
B2	PROTECTION DEGREE	■ IP 43	☐ IP 55	
B3	STEEL THICKNESS	■ STRUCTURE: 1.5 mm	■ DOORS: 2 mm	
B4	CABLE ENTRY	■ TOP	☐ BOTTOM	
B5	CABLE ENTRY FIXING	☐ REMOVABLE PLATES	☐ CLAMPS	■ MCT <1>
B6	ACCESSIBILITY	■ FRONT ONLY	☐ FRONT / REAR	
B7	LIFTING SYSTEM	■ EYE BOLTS	☐ LIFTING BAR "L" TYPE	
B8	BASE PLINTH	■ SEPARATE PIECES		
B9	DOOR LOCKS	■ KEY LOCKED WITH UNIQUE KEY PER UCP		
B10	APPROXIMATIVE WEIGHT	SIS 250Kg <1> FGS 800 Kg		

NOTE B1 :ALLOWED TOLERANCE FOR PANEL HEIGHT/DEPTH: +/-5mm;
ALLOWED TOLERANCE FOR PANEL STRUCTURES AND SUPPORTS: +/-2mm;
ALLOWED TOLERANCE FOR TOTAL PANEL LENGTH : +/-2% OF TOTAL PANEL LENGTH;
(IN ANY CASE, MAXIMUM LENGTH TOLERANCE ALLOWED FOR PANEL WITH 2 OR MORE COLUMNS IS +/-50mm)
REMOVABLE BOTTOM PLATES SHALL BE PROVIDED
<1>

C - PAINTING

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

D - ELECTRICAL DATA

.	SUPPLY LINE	UPS LINE 1	UPS LINE 2	NON-UPS LINE 3
D1	SUPPLY VOLTAGE	230Vac	230Vac	230Vac
D2	FREQUENCY	50Hz	50Hz	50Hz
D3	LOAD	1,2Kw <1>	1,2Kw <1>	0,6Kw <1>
D4	INTERNAL LIGHTING WITH DOOR LIMIT SWITCH OPERATION	■ LED (230Vac - 50Hz)<1>		
D5	ANTI CONDENSING HEATER WITH TEMPERATURE THERMOSTAT	■ YES		
D6	VENTILATION FAN WITH FLOW SWITCH AND TEMPERATURE THERMOSTAT	■ YES		
D7	SERVICE SOCKET	■ YES		

E - NAMEPLATES

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

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

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
DATA SHEET

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DA-00010
SHEET 003
REV. 1

A - PANEL CONTROL CABLES

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

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

C-GROUNDING CONNECTIONS

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

B -PANEL SINGLE-CORE CABLES

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

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
INTERNAL WIRING INFORMATION

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00010

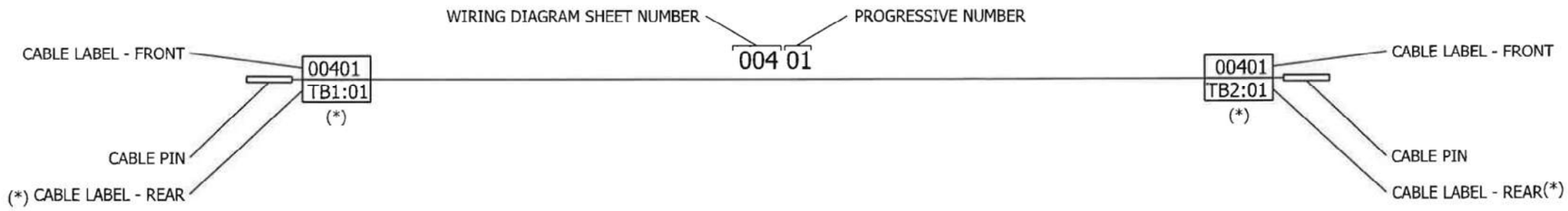
SHEET 004

REV. 1

COLOR ACRONYMS LIST :

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

TYPICAL WIRE MARKING



EARTH CONNECTION RESUME TABLE:

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

EARTH ACRONYMS LEGEND :

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

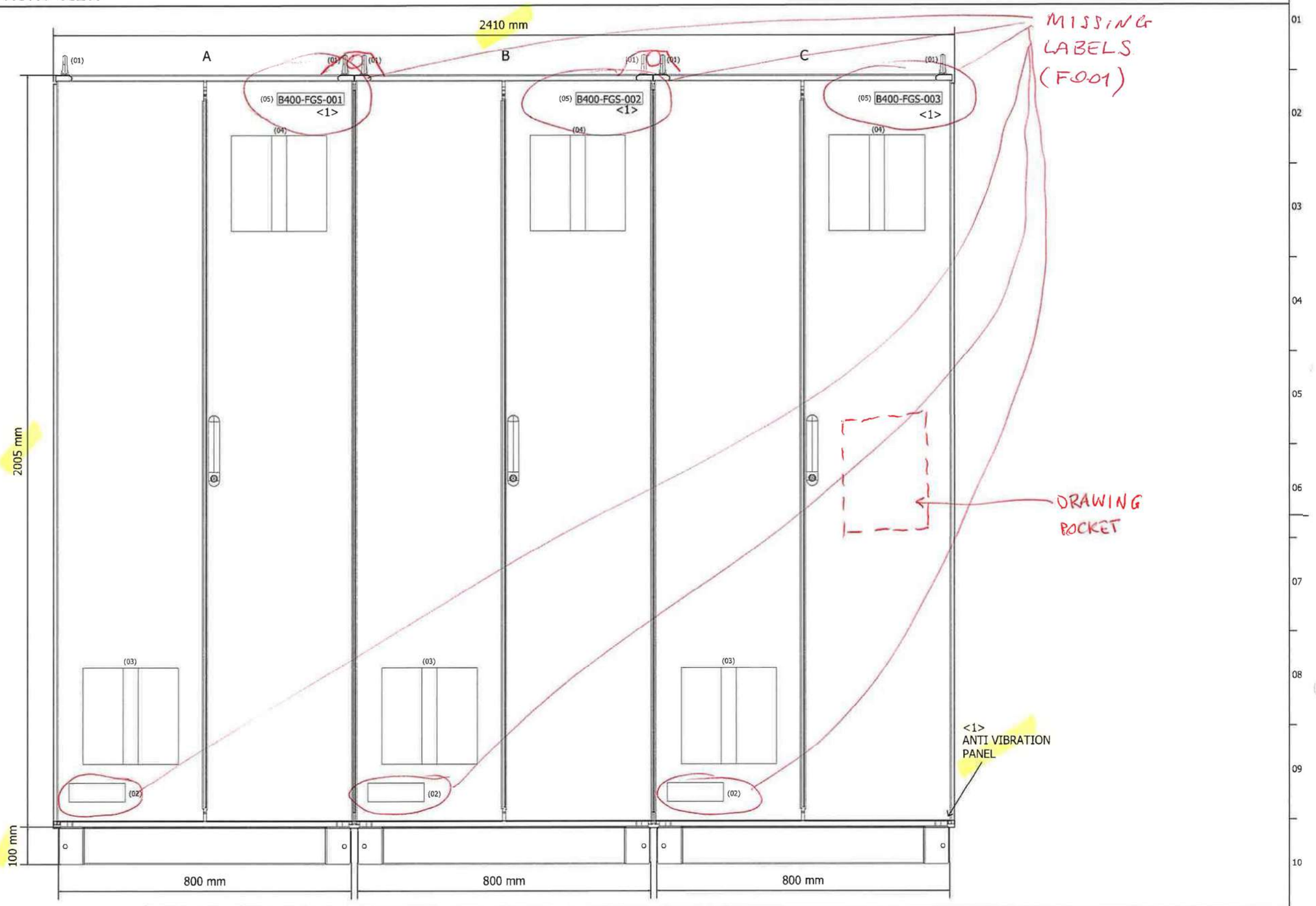
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

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

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DA-00010
SHEET 005
REV. 1

FGS PANEL - EXTERNAL FRONT VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL FRONT VIEW

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

SCALE : 1

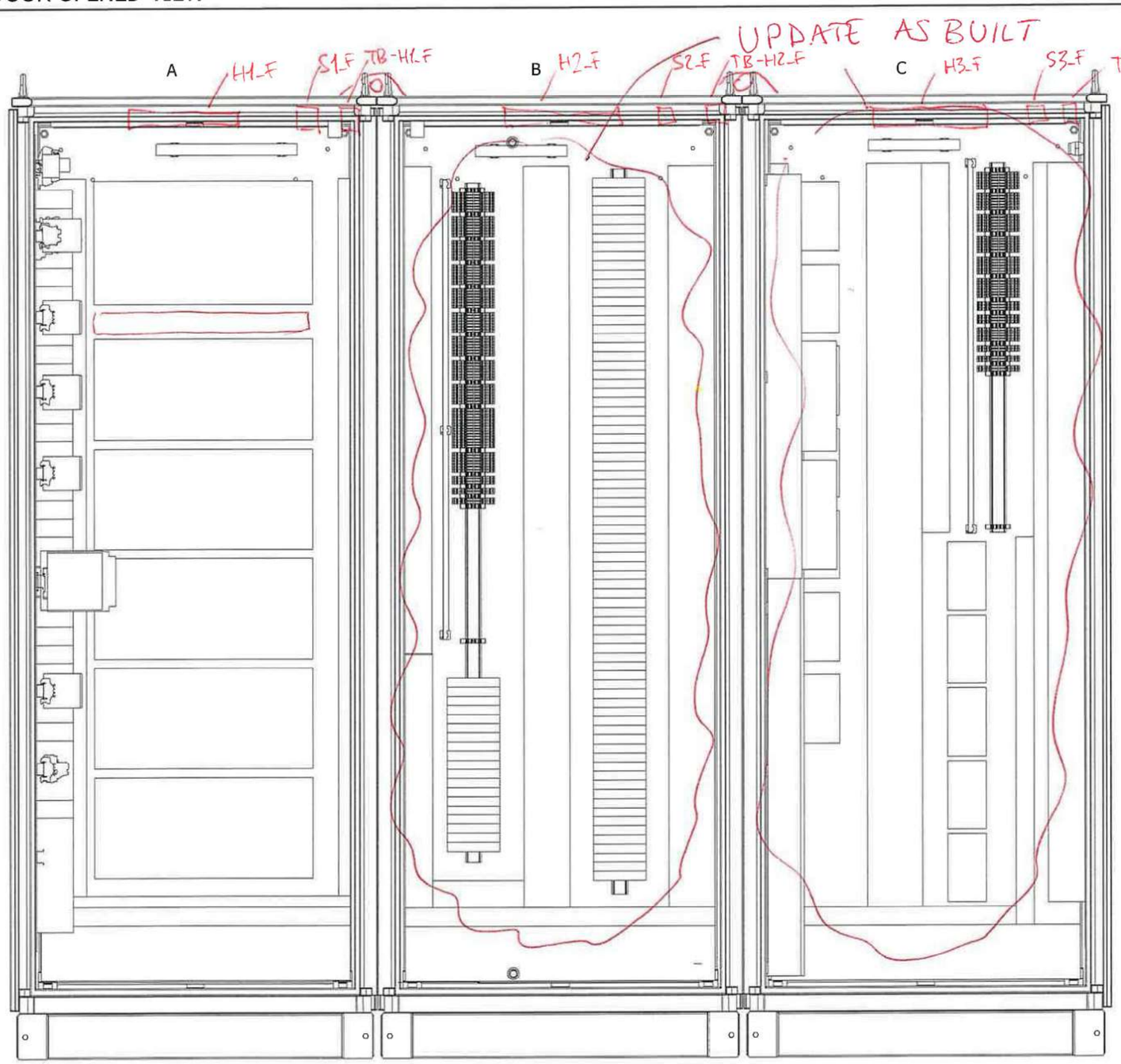
A3

DRAWING NO. 1724000594-IN-DA-00010

SHEET 006

REV. 1

FGS PANEL - EXTERNAL FRONT DOOR OPENED VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL FRONT DOOR OPENED VIEW

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

SCALE : 1

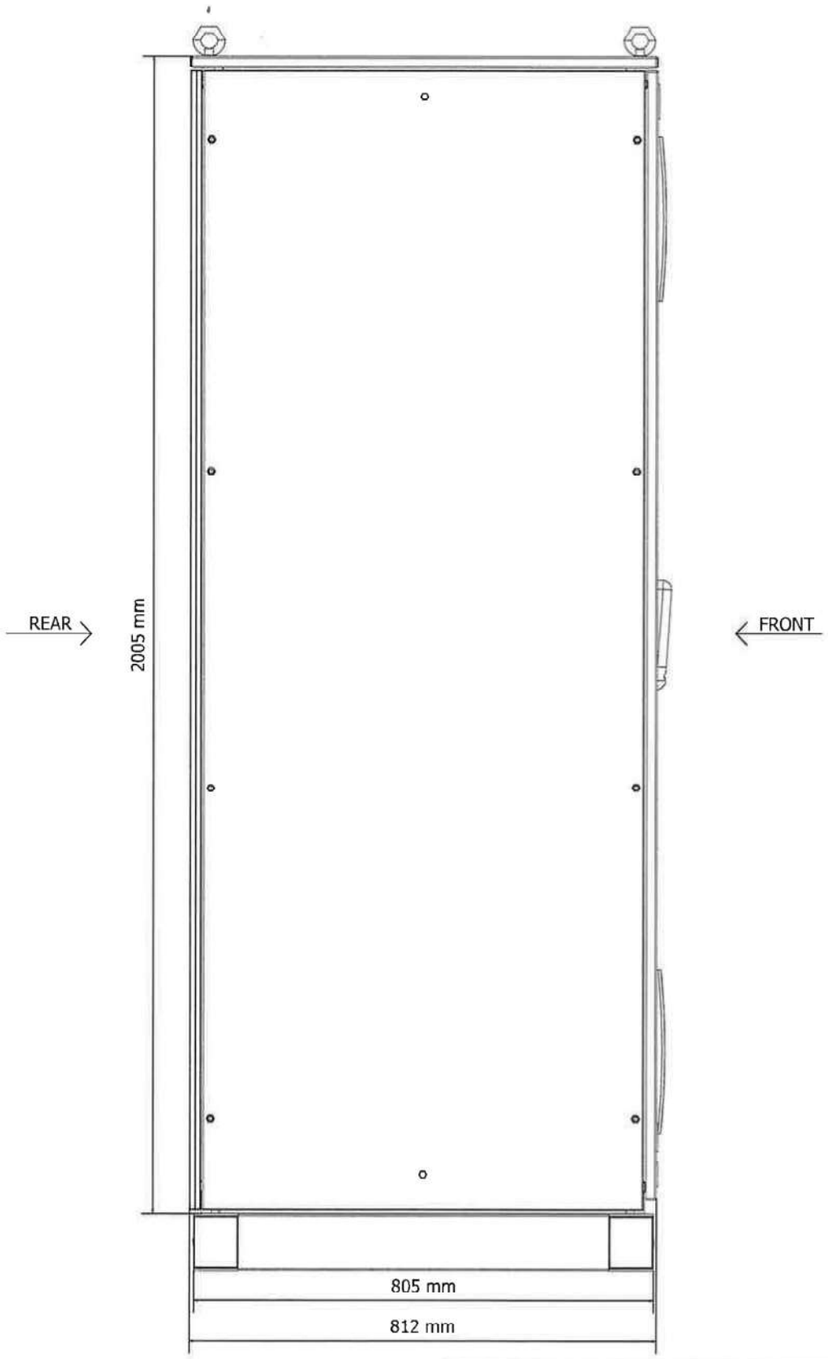
A3

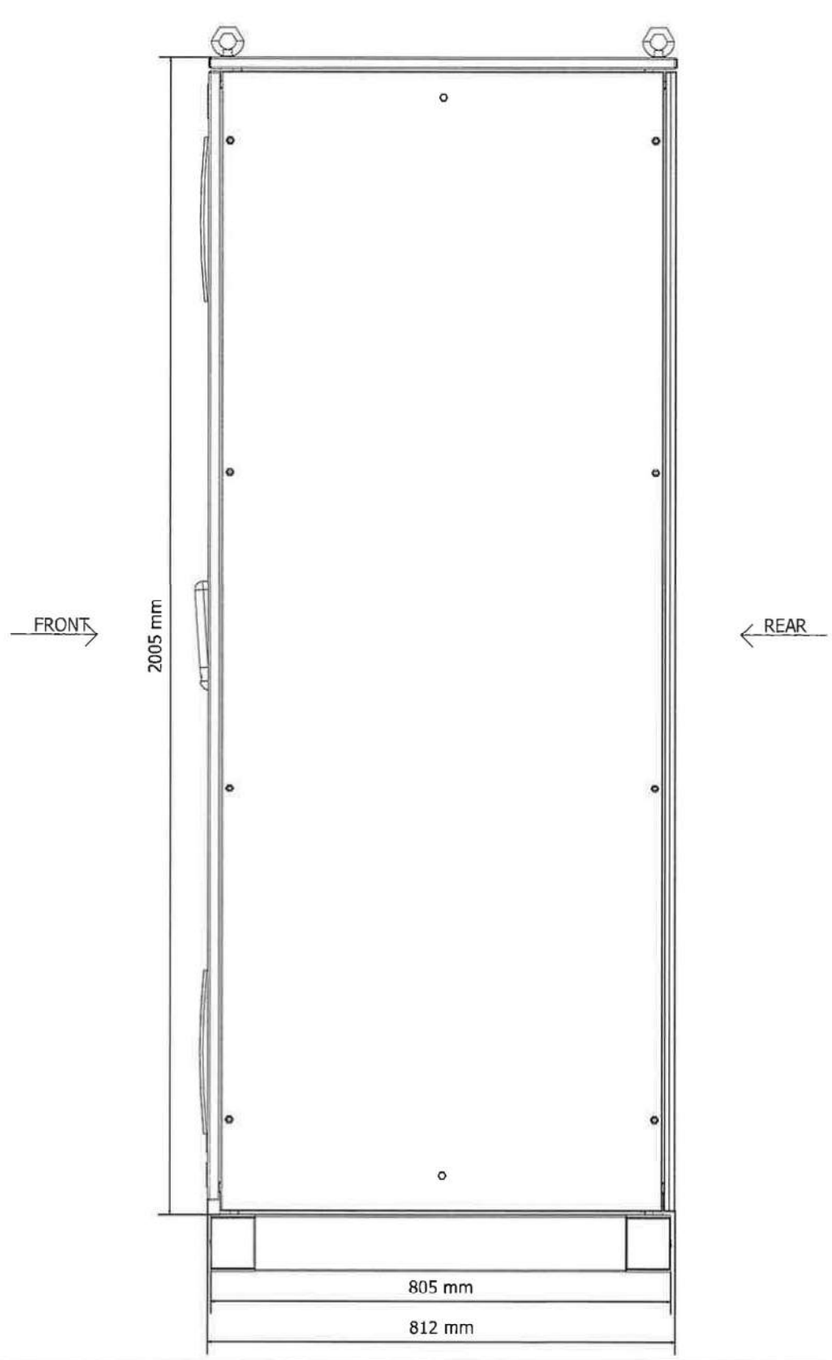
DRAWING NO.
1724000594-IN-DA-00010

SHEET 007

REV. 1

FGS PANEL - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW





DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW

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

SCALE : 1

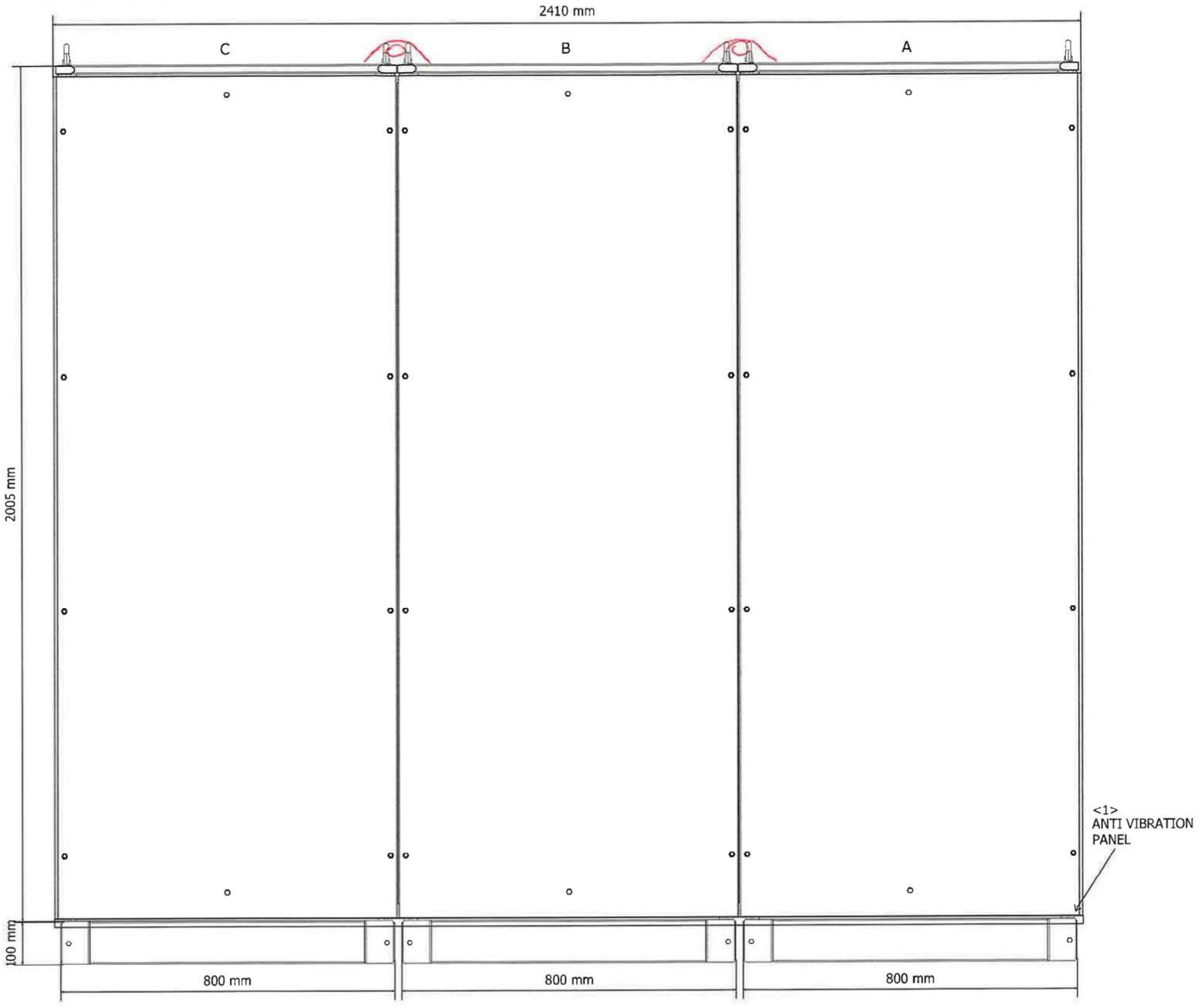
A3

DRAWING NO.
1724000594-IN-DA-00010

SHEET 008

REV. 1

FGS PANEL - EXTERNAL REAR VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL REAR VIEW

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

SCALE : 1

A3

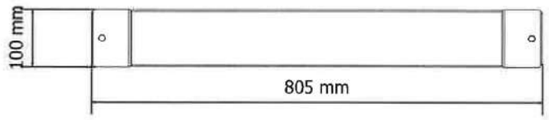
DRAWING NO.
1724000594-IN-DA-00010

SHEET 009

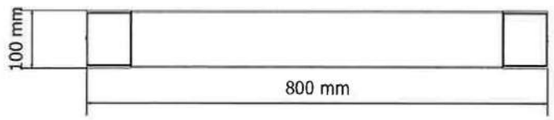
REV. 1

FGS PANEL - BASEPLATE DETAILS

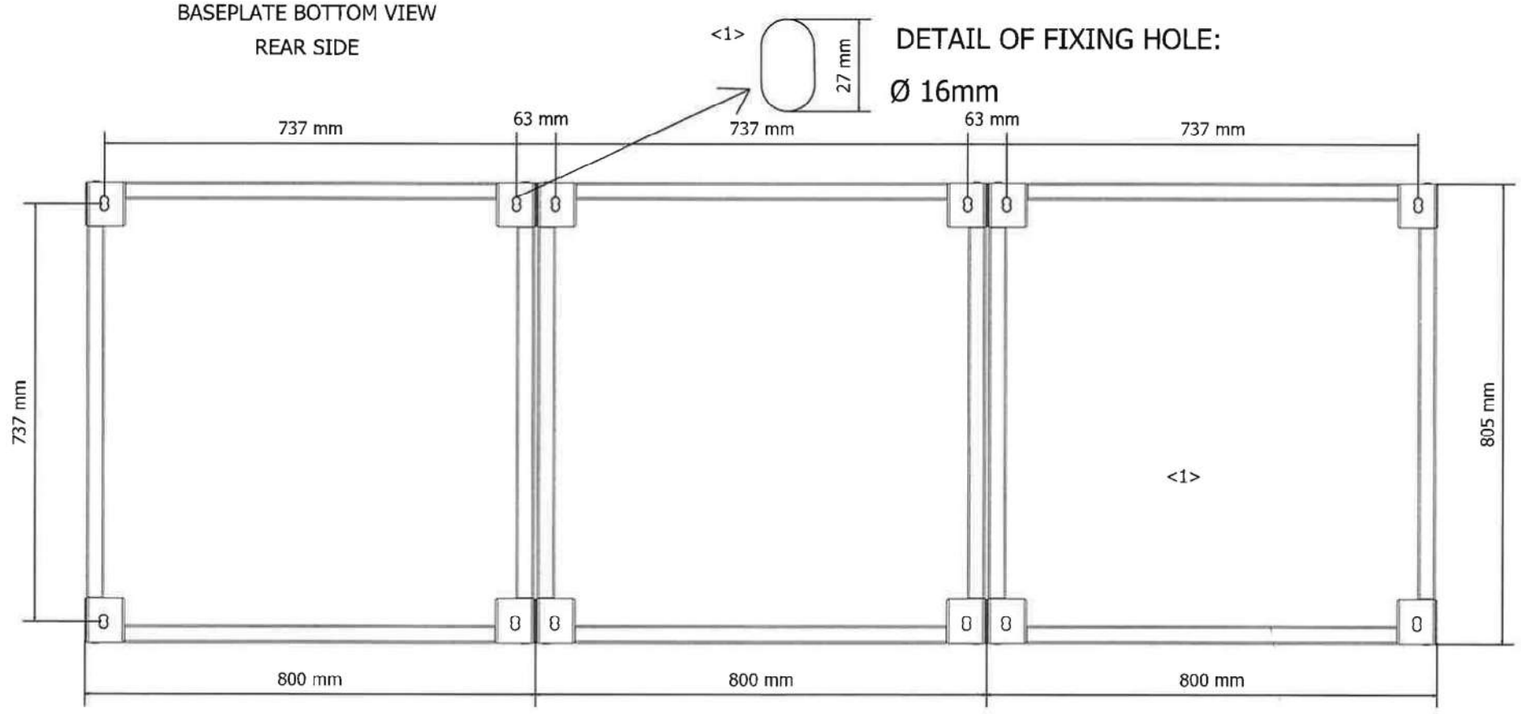
BASEPLATE SIDE VIEW



BASEPLATE FRONT VIEW



BASEPLATE BOTTOM VIEW
REAR SIDE



FRONT SIDE

<1>
DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - BASEPLATE DETAILS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00010

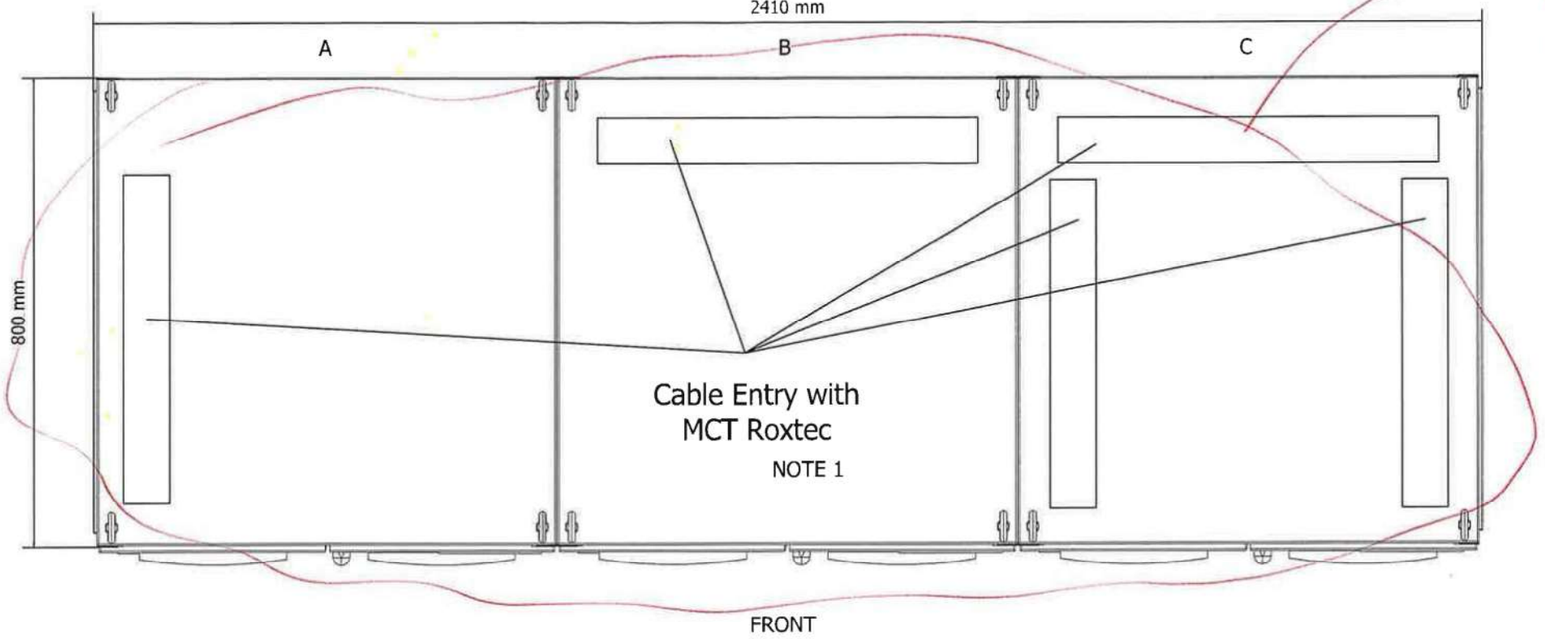
SHEET 010

REV. 1

FGS PANEL - EXTERNAL & INTERNAL TOP VIEW

EXTERNAL TOP VIEW

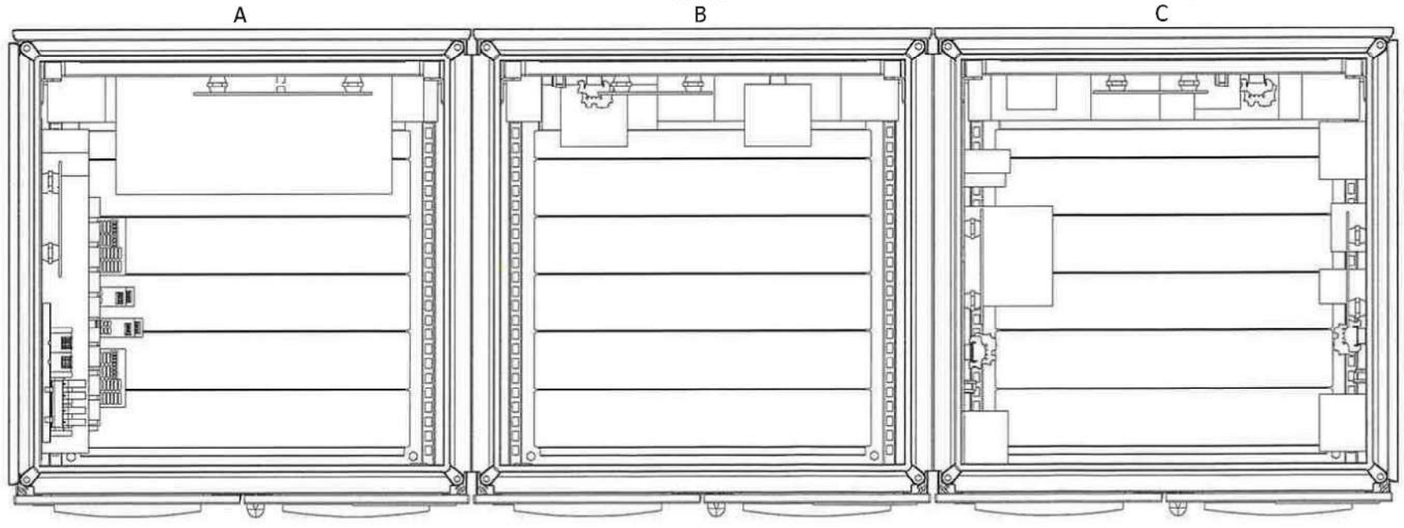
REAR



MCT NOT INSTALLED YET (F002)

INTERNAL TOP VIEW

REAR



FRONT

DRAWING SCALE 1:10

<1>

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL & INTERNAL TOP VIEW

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00010

SHEET 011

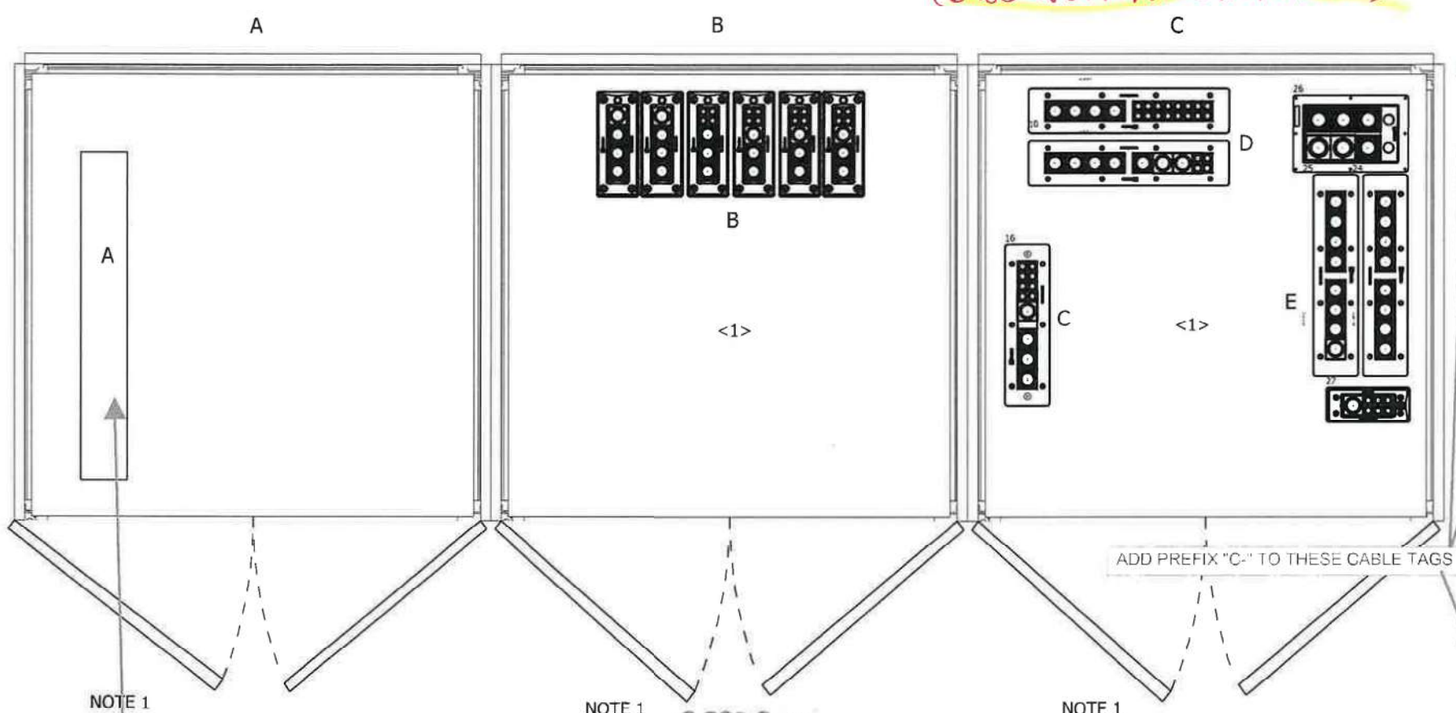
REV. 1

FGS PANEL - EXTERNAL TOP VIEW DOOR OPEN & MCT TABLE LIST

THE DRAWING SHALL SHOW THE EXACT POSITION OF EACH CABLE INSIDE EACH MCT FRAME.
SPARE "PLUGGED" ENTRIES SHALL ALSO BE PROVIDED.

EXTERNAL TOP VIEW
(DOOR OPEN)

NETWORK CABLES Vnet / IP TO BE ADDED (B400-NET1- A9/B9/A10/B10)



ADD PREFIX "C-" TO THESE CABLE TAGS

CABLE TAG	CABLE TYPE	OUTER CABLE DIAMETER (mm)	MCT SIZE	POSITION
77-HS-012B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-012/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
77-HS-013B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-013/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
77-HS-014B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-014/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
77-HS-015B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-015/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
77-HS-016B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-016/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
20-UCP-001/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	40x40	D
80-UCP-001/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	40x40	D
50-LP-002/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	40x40	D

CABLES TO BE ADDED IN FRAME "D"

B100-HSB-001/B400-FGS-002 - 6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS - 25.2mm
B200-HSB-001/B400-FGS-002 - 6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS - 25.2mm
B300-HSB-001/B400-FGS-002 - 6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS - 25.2mm

CABLE TAG	CABLE TYPE	OUTER CABLE DIAMETER (mm)	MCT SIZE	POSITION
950-JE-06204/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	40x40	C
950-JE-04204/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	40x40	C
950-JE-04208/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	40x40	C
950-SDZ-04201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04202/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04203/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04204/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04205/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04206/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-JE-01101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-02101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	50x50	E
950-JE-02102/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	50x50	E
950-JE-03101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	50x50	E
950-JE-04101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-05101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	50x50	E
950-JE-06101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-06201/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-04201/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-04205/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-01102/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-02103/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-03102/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-GDZ-04201/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04202/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04203/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04204/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04205/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04206/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-JE-01104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-02104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-03104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-04103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-05103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-06103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-07101/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-06203/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-04203/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-04207/B400-FGS-002	24x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	32.8	40x40	B
950-JE-05104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-XZ-04201/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
950-XL-04201/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
950-XL-04202/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
P320PLC/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	40x40	B
C-NC-200F2/B400-FGS-002.01	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
C-NC-200F2/B400-FGS-002.02	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
950-JE-01103/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
950-JE-03103/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
950-JE-04102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
950-JE-05102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
950-JE-06102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
C-950-MFA-02101/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	40x40	D
C-950-MFA-07101/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	40x40	D
C-950-MFA-06201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
C-950-MFA-04203/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
C-950-MFA-04202/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
C-950-MFA-05201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
C-950-MFA-04201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D

ADD PREFIX "C-" TO THESE CABLE TAGS

TAG NUMBER	FORMATION mm²	Internal Cable Color	Core Colour	Fire Detection	Armour WB/SWA/AWA/STA	MATED WEIGHT (T)	FROM ITEM Tag	FROM DESCRIPTION	FROM Equip. Grid Ref.	TO ITEM Tag	TO DESCRIPTION
[illegible]	3G2.5	Orange	BK/BU/YG	LSZH Fire Resistant	Armoured	2.0	DB 220V A	AC UPS 1 & 2 DB	DB CABINET	B400 / 05.001	FGS Fire & Gas Panel - Line A
[illegible]	3G2.5	Orange	BK/BU/YG	LSZH Fire Resistant	Armoured	2.0	DB 220V B	AC UPS 1 & 2 DB	DB CABINET	B400 / 05.001	FGS Fire & Gas Panel - Line B
[illegible]	3G2.5	Grey	BK/BU/YG	LSZH Flame Retardant	Unarmoured	2.0	DB 220V A	Lighting & Small Power DB Bulk	01/026	B400 / 05.001	FGS Fire & Gas Panel - Aux. In

NOTES :

NOTE 1: DOORS LOCK AT 90°

DRAWING SCALE 1:10

PLEASE ADD THESE CABLES IN MCT FRAME "A"

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL TOP VIEW DOOR OPEN & MCT TABLE LIST

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

SCALE : 1

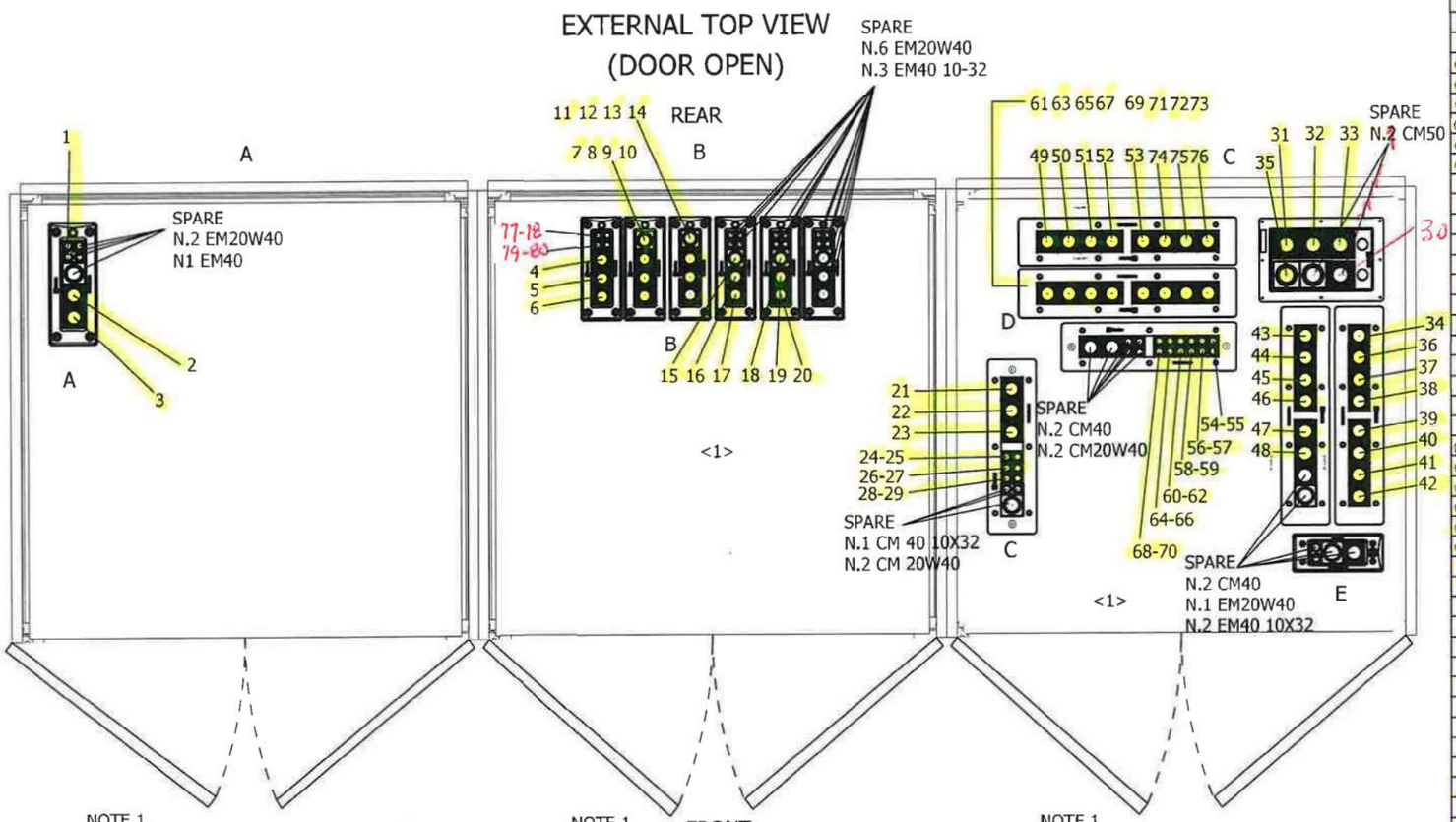
A3

DRAWING NO. 1724000594-IN-DA-00010

SHEET 012

REV. 1

FGS PANEL - EXTERNAL TOP VIEW DOOR OPEN & MCT TABLE LIST



CABLE TAG	CABLE TYPE	OUTER CABLE DIAM. (mm)	MCT SIZE	LOC.	POS.
C-77-HS-012B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	61
C-77-ZSL-012/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	62
C-77-HS-013B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	63
C-77-ZSL-013/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	64
C-77-HS-014B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	65
C-77-ZSL-014/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	66
C-77-HS-015B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	67
C-77-ZSL-015/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	68
C-77-HS-016B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	69
C-77-ZSL-016/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	70
20-UCP-001/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	CM40 10-32	D	71
80-UCP-001/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	CM40 10-32	D	72
50-LP-002/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	CM40 10-32	D	73
<2> B100-HSB-001/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	74
<2> B200-HSB-001/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	75
<2> B300-HSB-001/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	76
<2> 84401-CEL	3G2.5, ORANGE, NIS	15.5	EM40 10x32	A	1
<2> 84402-CEL	3G2.5, ORANGE, NIS	15.5	EM40 10x32	A	2
<2> 83107-CEL	3G2.5, ORANGE, NIS	13	EM20W40	A	3

CABLE TAG	CABLE TYPE	OUTER CABLE DIAM (mm)	MCT SIZE	LOC.	POS.
950-JE-06204/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	CM40	C	21
950-JE-04204/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	CM40	C	22
950-JE-04208/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	CM40	C	23
C-950-SDZ-04201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	24
C-950-SDZ-04202/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	25
C-950-SDZ-04203/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	26
C-950-SDZ-04204/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	27
C-950-SDZ-04205/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	28
C-950-SDZ-04206/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	29
950-JE-01101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM 40	E	30
950-JE-02101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	CM50	E	31
950-JE-02102/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	CM50	E	32
950-JE-03101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	CM50	E	33
950-JE-04101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	34
950-JE-05101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	CM50	E	35
950-JE-06101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	36
950-JE-06201/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	37
950-JE-04201/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	38
950-JE-04205/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	39
950-JE-01102/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	40
950-JE-02103/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	41
950-JE-03102/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	42
C-950-GDZ-04201/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	43
C-950-GDZ-04202/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	44
C-950-GDZ-04203/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	45
C-950-GDZ-04204/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	46
C-950-GDZ-04205/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	47
C-950-GDZ-04206/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	48
950-JE-01104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	4
950-JE-02104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	5
950-JE-03104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	6
950-JE-04103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	7
950-JE-05103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	8
950-JE-06103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	9
950-JE-07101/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	10
950-JE-06203/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	11
950-JE-04203/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	12
950-JE-04207/B400-FGS-002	24x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	32.8	EM40 10x32	B	13
950-JE-05104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	14
C-950-XZ-04201/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	15
C-950-XL-04201/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	16
C-950-XL-04202/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	17
P320PLC/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	EM40 10x32	B	18
C-NC-200F2/B400-FGS-002.01	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	19
C-NC-200F2/B400-FGS-002.02	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	20
950-JE-01103/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	49
950-JE-03103/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	50
950-JE-04102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	51
950-JE-05102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	52
950-JE-06102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	53
C-950-MFA-02101/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	54
C-950-MFA-07101/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	55
C-950-MFA-05201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	56
C-950-MFA-04203/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	57
C-950-MFA-04202/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	58
C-950-MFA-05201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	59
C-950-MFA-04201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	60
<2> B100-NET1-A9	CAT.6A 4x2xAWG23. Sh+Sht+ARM, F Ret, GREY, NIS	10.7	EM20W40	B	~~21~~ 77
<2> B100-NET1-B9	CAT.6A 4x2xAWG23. Sh+Sht+ARM, F Ret, GREY, NIS	10.7	EM20W40	B	~~22~~ 78
<2> B100-NET1-A10	CAT.6A 4x2xAWG23. Sh+Sht+ARM, F Ret, GREY, NIS	10.7	EM20W40	B	~~23~~ 79
<2> B100-NET1-B10	CAT.6A 4x2xAWG23. Sh+Sht+ARM, F Ret, GREY, NIS	10.7	EM20W40	B	~~24~~ 80

NOTES :

NOTE 1: DOORS LOCK AT 90°

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL TOP VIEW DOOR OPEN & MCT TABLE LIST

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

SCALE : 1

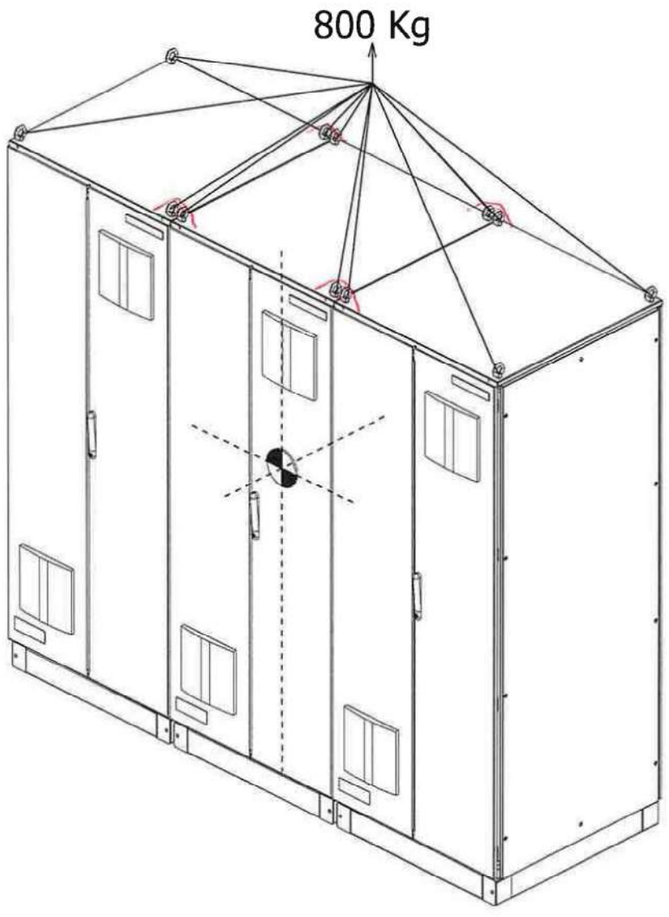
A3

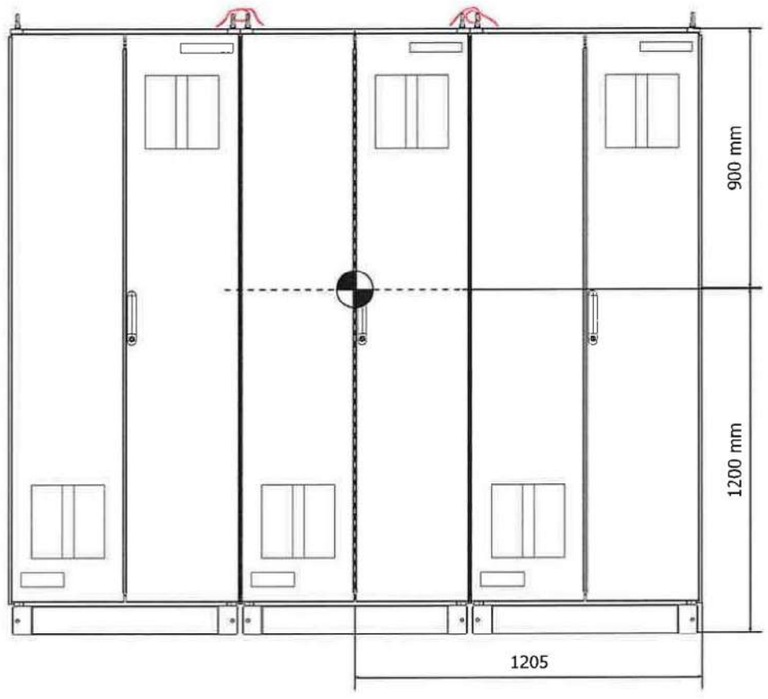
DRAWING NO. 1724000594-IN-DA-00010

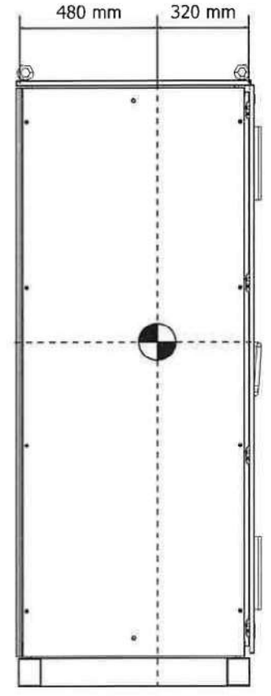
SHEET 012

REV. 1

FGS PANEL - LIFTING DETAILS







= CENTER OF GRAVITY

DRAWING SCALE 1:20
ALL QUOTES SHOWN ARE APPROXIMATE VALUE

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - LIFTING DETAILS

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00010

SHEET 013

REV. 1

FGS PANEL - FRONT DOOR CUT-OUT DETAILS



NOTE 1 : CUT-OUT FOR AIR VENTILATION FILTER

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - FRONT DOOR CUT-OUT DETAILS

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00010

SHEET 014

REV. 1

FGS PANEL - FRONT SIDE INTERNAL VIEW

FRONT SIDE

DEVICE "A"
(26) -S2SC70D-FA12010
(22) -N: 6: SAI143-H63
<1> (23) -N: 2: SEC401-S1 — 51
(24) -N: 2: S2CP471-01
(25) -N: 2: SPW482-53
(37) AIP 602

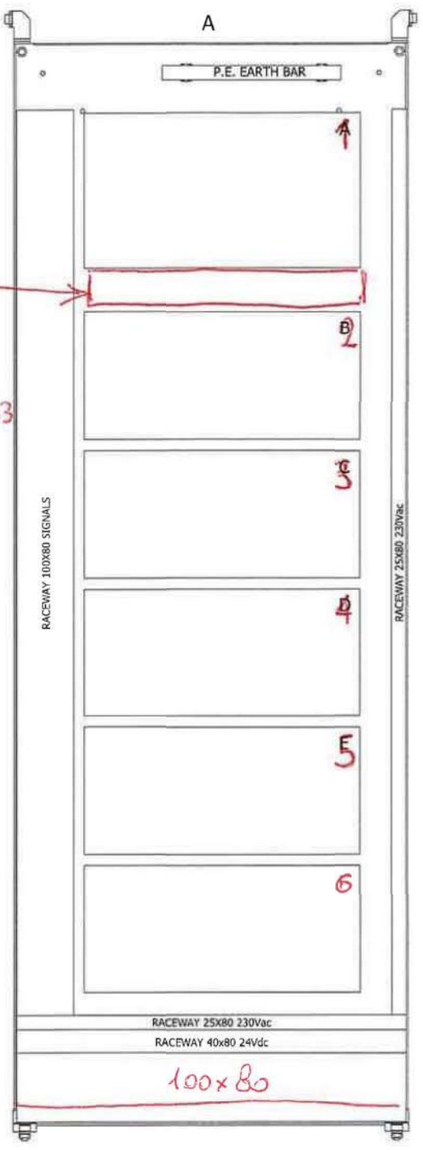
DEVICE "B"
(27) -SNB10D-425/CU2N
(22) -N: 4: SAI143-H63
(28) -N: 2: SDV144-S63
<1> (29) -N: 2: SDV541-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53

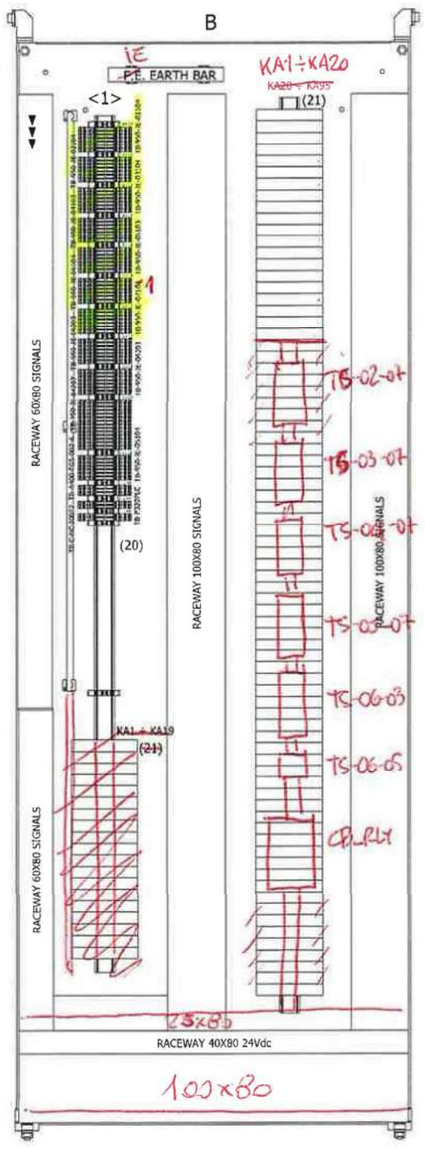
DEVICE "C"
(27) -SNB10D-425/CU2N
(22) -N: 4: SAI143-H63
(28) -N: 2: SDV144-S63
<1> (29) -N: 2: SDV541-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53

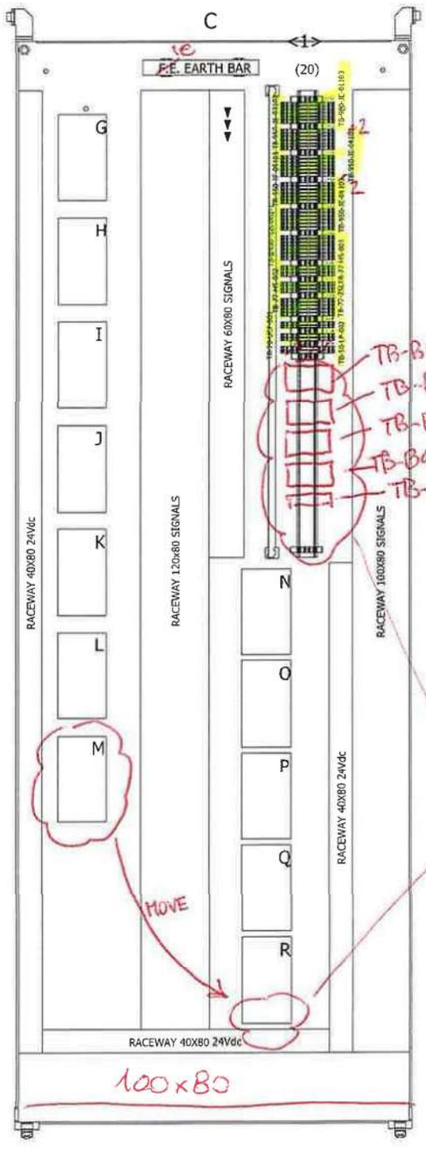
DEVICE "D"
(27) -SNB10D-425/CU2N
(22) -N: 4: SAI143-H63
(28) -N: 2: SDV144-S63
<1> (29) -N: 2: SDV541-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53

DEVICE "E"
(27) -SNB10D-425/CU2N
(22) -N: 2: SAI143-H63
(28) -N: 4: SDV144-S63
<1> (29) -N: 2: SDV541-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53

DEVICE "F"
(30) -SNB10D-425/CU2T
-N: 2: SPARE
<1> (29) -N: 4: SDV541-S63
(28) -N: 2: SPARE SDV144-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53







DEVICE "G" ÷ "R"
SBD4D-06 (31)

G = TB-02-07 (31)
H = TB-03-07
I = TB-04-07
J = TB-05-07
K = TB-06-03
L = TB-06-05
M = TB-06-07
N = TB-02-05
O = TB-03-05
P = TB-04-05
Q = TB-05-03
R = TB-05-05

TB-B100-HSB-001
TB-B200-HSB-001
TB-B300-HSB-001
TB-B400-HSB-001
TB-B0-UCP-001

TO BE ADDED AS-BUILT

GENERAL COMMENT:
PLEASE EVALUATE THE POSSIBILITY TO INCREASE AS MUCH AS POSSIBLE THE SIZE OF RACEWAYS FOR FIELD CABLES.
PLEASE IDENTIFY THEM WITH A DIFFERENT PATTERN.

⋮ = CABLE ENTRY

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

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

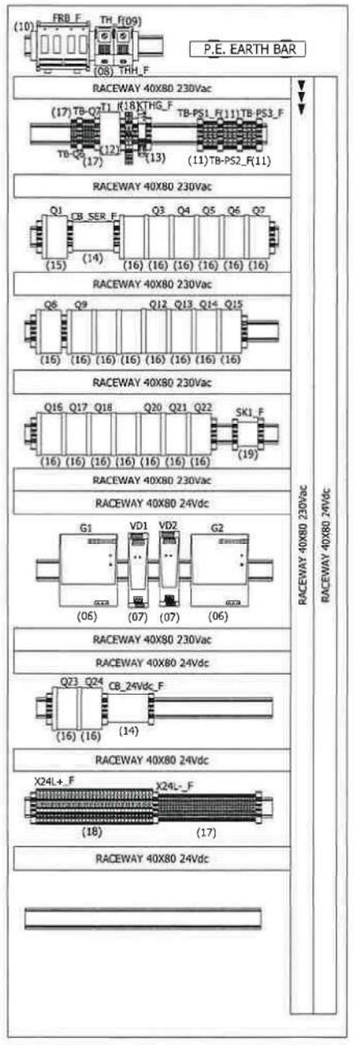
TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - FRONT SIDE INTERNAL VIEW

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DA-00010
SHEET 015
REV. 1

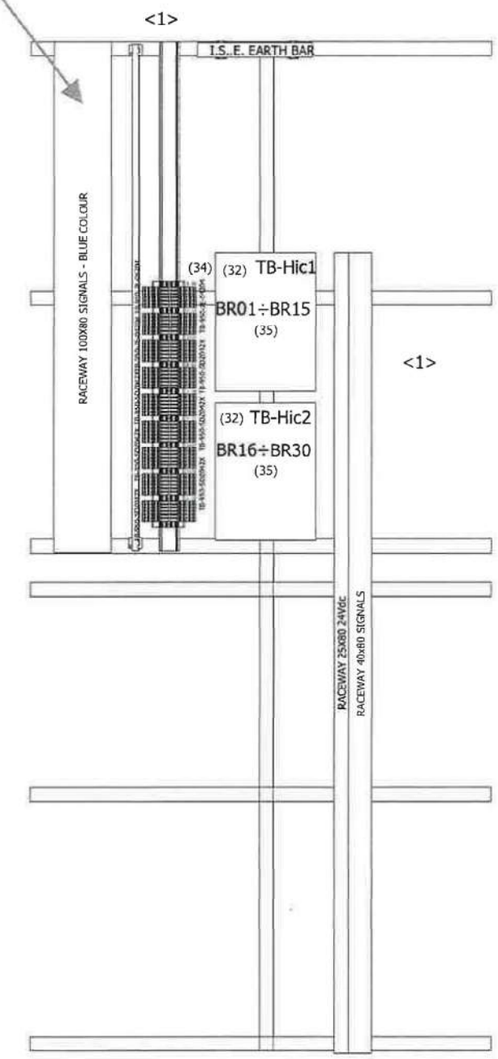
FGS PANEL - RIGHT/LEFT SIDE INTERNAL VIEWS

PLEASE IDENTIFY WITH A DEDICATED PATTERN ALL RACEWAYS FOR I.S. CIRCUITS

LEFT SIDE (A)

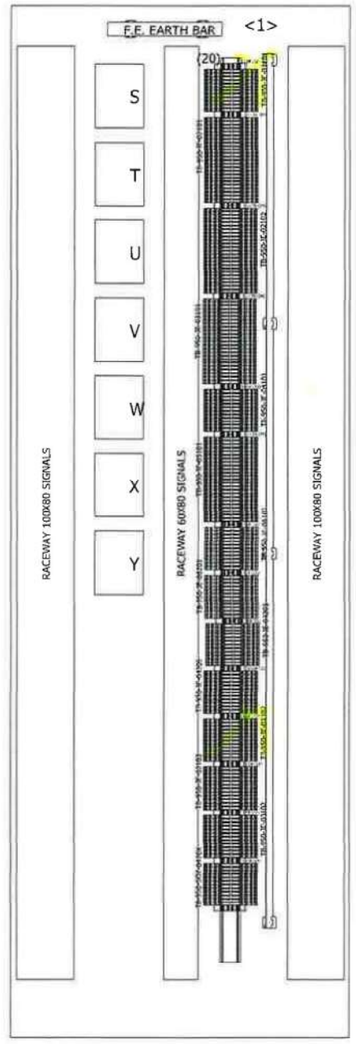


LEFT SIDE (C)



RIGHT SIDE (C)

DEVICE "S" ÷ "Y"
SBA4D-06 (33)



▼ = CABLE ENTRY

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - RIGHT/LEFT SIDE INTERNAL VIEWS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00010

SHEET 016

REV. 1

TYPICAL 01



TYPICAL 01

MANUFACTURER LABEL ITEM (02)

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

DRAWING SCALE 1:1

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND | ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
MANUFACTURER LABEL DETAILS

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

A3 | DRAWING NO. 1724000594-IN-DA-00010 | SHEET 027 | REV. 1

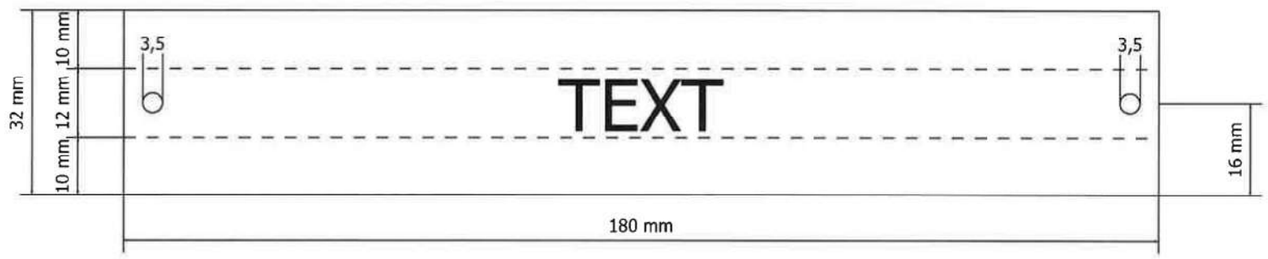
SIS & FGS PANELS - SECTION IDENTIFIER NAMEPLATE DETAILS

TYPICAL 02

LABEL FOR SECTION IDENTIFIER ITEM (05)

MATERIAL	: TRAFOLYTE
DIMENSION	: 180mm x 32mm (lxh)
BACKGROUND COLOUR	: TRAFOLYTE
TEXT COLOUR	: BLACK
TEXT HEIGHT	: 12 mm
TEXT FONT	: ARIAL
FIXING	: BY STAINLESS STEEL SCREWS

TYPICAL 02



CABINET	TEXT
~~FGS LEFT STRUCTURE MARSHALLING CABINET~~	B400-FGS-001
~~FGS CENTRAL STRUCTURE MARSHALLING CABINET~~	B400-FGS-002
~~FGS RIGHT STRUCTURE MARSHALLING CABINET~~	B400-FGS-003
SIS SYSTEM/MARSHALLING CABINET	B400-SIS-001

FGS SYSTEM CABINET
FGS MARSHALLING CABINET 1
FGS MARSHALLING CABINET 2

<1>

DRAWING SCALE 1:1

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND | ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
SECTION IDENTIFIER NAMEPLATE DETAILS

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

A3 | DRAWING NO. 1724000594-IN-DA-00010 | SHEET 028 | REV. 1

ITEM	Tag	B400-FGS-003	: FGS Marshalling Cabinet 2		Dwg	123A90-DDL-IN-DL-40012	
	S/Sys	70-00	: F&G Control System		Module	LD_B-400	
TASK	code	C10000874		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Instrumental Form CJX48		Indoor Cabinet/Panel

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

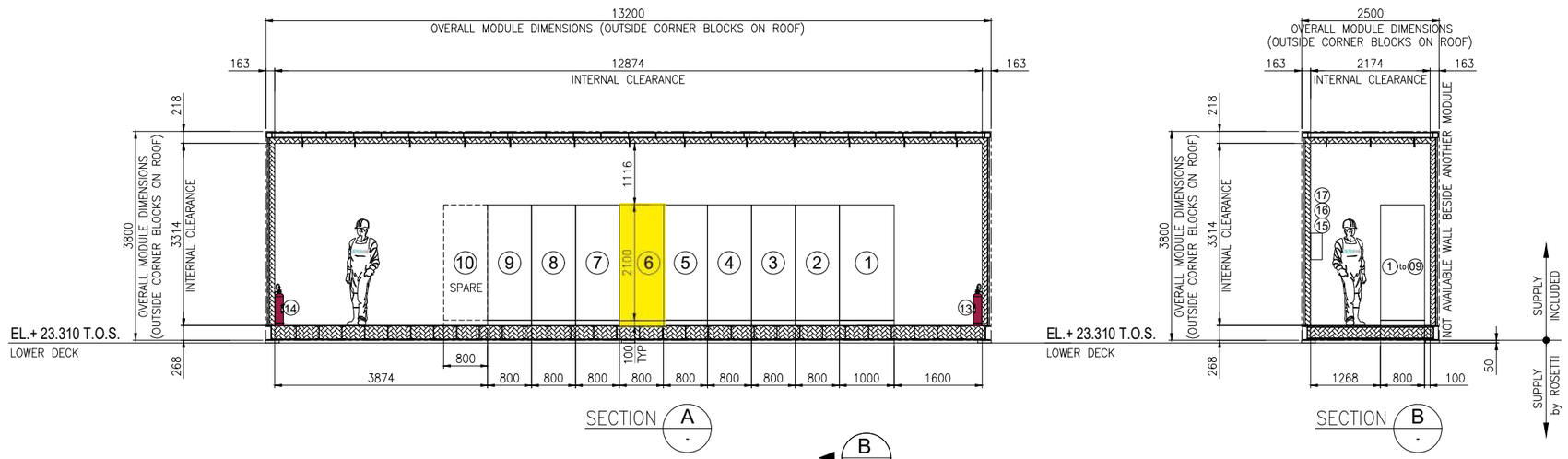
Comments: Note refer to punch list raised during FAT

Note 6 : C30000224/C30000227/C30000377/C30000380/C30000386.

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Giovanni Tangianu	
Date	2024-11-29	2024-11-29	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-11-29T07:54:54.593Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-11-29T13:28:04.859Z	

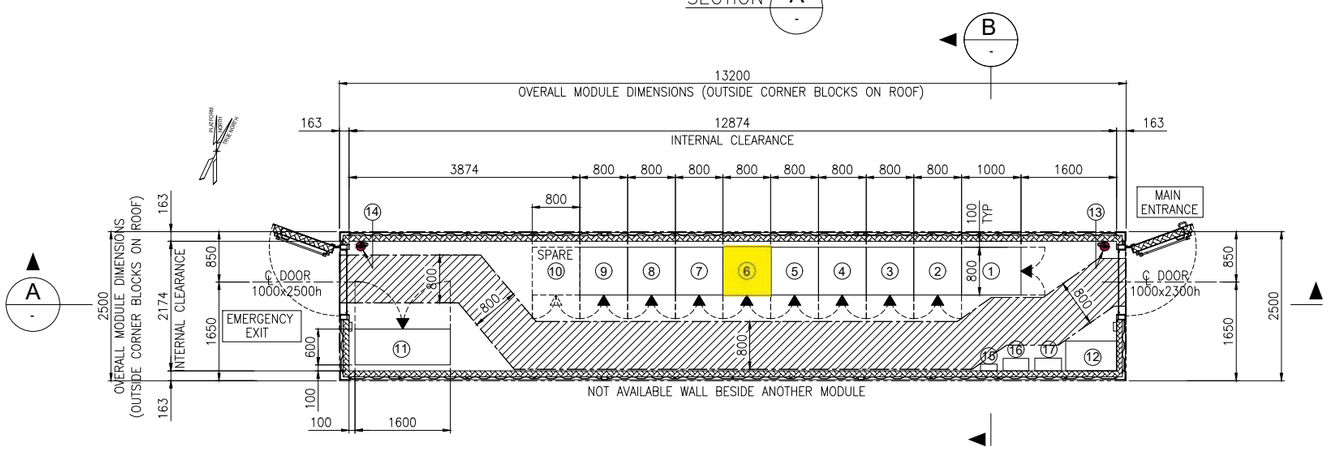
DRAWING NO. 123A90-DDL-IN-DL-40012

REV. 03



SECTION A -

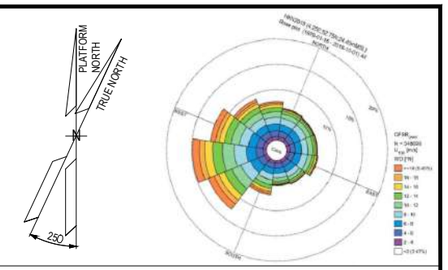
SECTION B -



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

EQUIPMENT LIST

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



NOTES

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

LEGEND

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

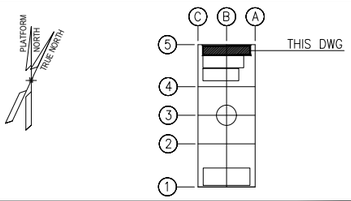
HOLDS

.

REFERENCE

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

KEY PLAN



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

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

CROSSWIND | ROSETTI MARINO

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

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

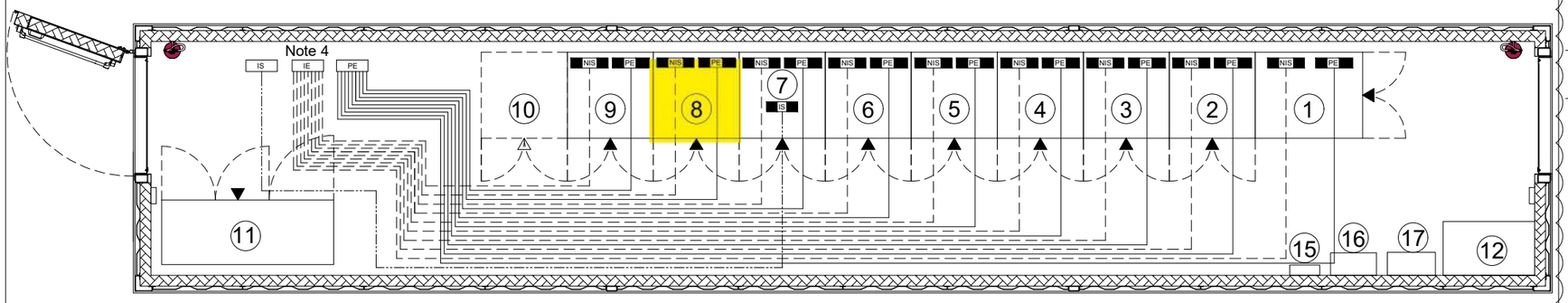
File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

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

NOTES

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

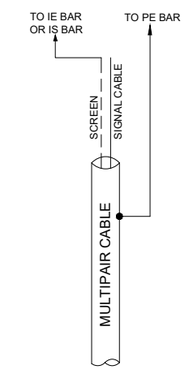
01



LEGEND

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

KEY



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

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

ROSETTI MARINO SpA

01

CROSSWIND

ROSETTI MARINO

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

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

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

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DL-40013	003	01

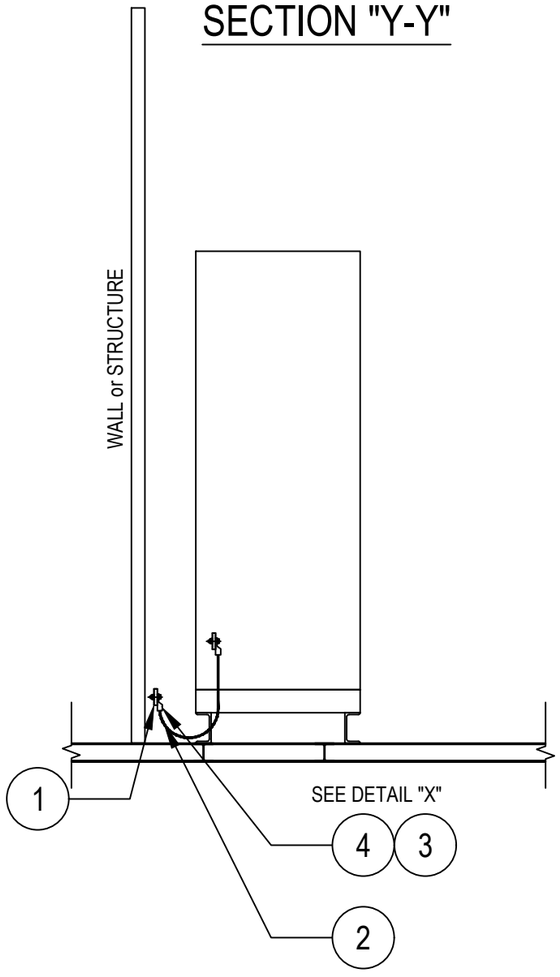
F.to UNI A3: 420mmx297mm

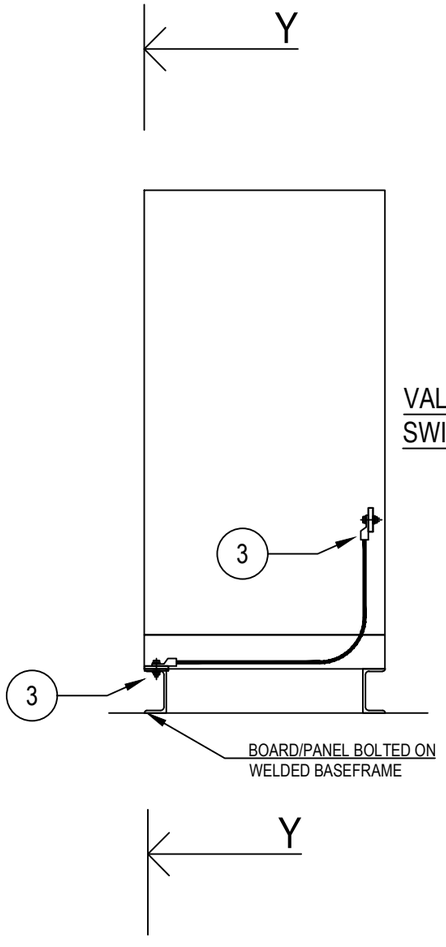
File Name : 123A90-DDL-IN-DL-430013 Rev. 01

E23

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

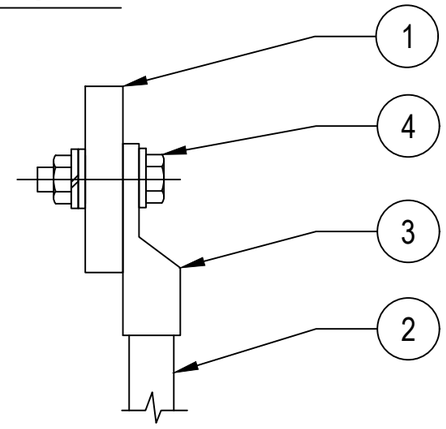
SECTION "Y-Y"





VALID FOR HV/LV SWITCHGEAR

DETAIL "X"



NOTES:

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

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-EARTHING SYSTEM
EARTHING FOR PANELS/BOARDS IN TECHNICAL ROOM

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

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

F.to UNI A3: 420mmx297mm

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

A - GENERAL DATA

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

B - MECHANICAL DATA

B1	OVERALL DIMENSION	SIS 800 mm x 800 mm x 2100 mm (L x D x H) (NOTE B1) FGS 2400 mm x 800 mm x 2100mm (L x D x H) <1>		
B2	PROTECTION DEGREE	■ IP 43	☐ IP 55	
B3	STEEL THICKNESS	■ STRUCTURE: 1.5 mm	■ DOORS: 2 mm	
B4	CABLE ENTRY	■ TOP	☐ BOTTOM	
B5	CABLE ENTRY FIXING	☐ REMOVABLE PLATES	☐ CLAMPS	■ MCT <1>
B6	ACCESSIBILITY	■ FRONT ONLY	☐ FRONT / REAR	
B7	LIFTING SYSTEM	■ EYE BOLTS	☐ LIFTING BAR "L" TYPE	
B8	BASE PLINTH	■ SEPARATE PIECES		
B9	DOOR LOCKS	■ KEY LOCKED WITH UNIQUE KEY PER UCP		
B10	APPROXIMATIVE WEIGHT	SIS 250Kg <1> FGS 800 Kg		

NOTE B1 :ALLOWED TOLERANCE FOR PANEL HEIGHT/DEPTH: +/-5mm;
ALLOWED TOLERANCE FOR PANEL STRUCTURES AND SUPPORTS: +/-2mm;
ALLOWED TOLERANCE FOR TOTAL PANEL LENGTH : +/-2% OF TOTAL PANEL LENGTH;
(IN ANY CASE, MAXIMUM LENGTH TOLERANCE ALLOWED FOR PANEL WITH 2 OR MORE COLUMNS IS +/-50mm)
REMOVABLE BOTTOM PLATES SHALL BE PROVIDED
<1>

C - PAINTING

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

D - ELECTRICAL DATA

.	SUPPLY LINE	UPS LINE 1	UPS LINE 2	NON-UPS LINE 3
D1	SUPPLY VOLTAGE	230Vac	230Vac	230Vac
D2	FREQUENCY	50Hz	50Hz	50Hz
D3	LOAD	1,2Kw <1>	1,2Kw <1>	0,6Kw <1>
D4	INTERNAL LIGHTING WITH DOOR LIMIT SWITCH OPERATION	■ LED (230Vac - 50Hz)<1>		
D5	ANTI CONDENSING HEATER WITH TEMPERATURE THERMOSTAT	■ YES		
D6	VENTILATION FAN WITH FLOW SWITCH AND TEMPERATURE THERMOSTAT	■ YES		
D7	SERVICE SOCKET	■ YES		

E - NAMEPLATES

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

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

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
DATA SHEET

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DA-00010
SHEET 003
REV. 1

A - PANEL CONTROL CABLES

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

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

C-GROUNDING CONNECTIONS

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

B -PANEL SINGLE-CORE CABLES

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

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
INTERNAL WIRING INFORMATION

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00010

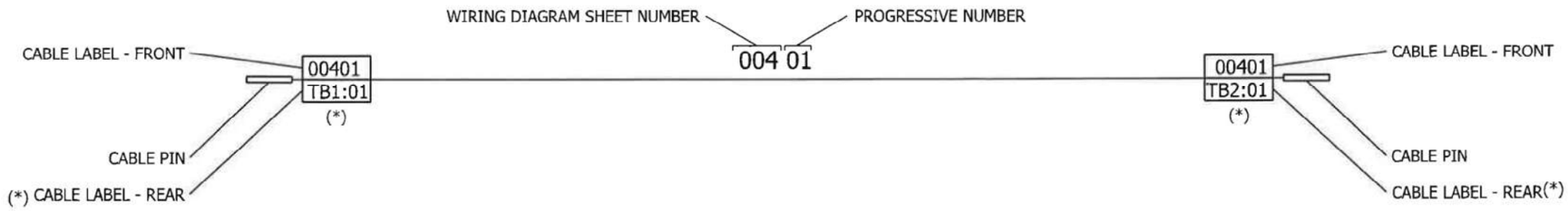
SHEET 004

REV. 1

COLOR ACRONYMS LIST :

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

TYPICAL WIRE MARKING



EARTH CONNECTION RESUME TABLE:

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

EARTH ACRONYMS LEGEND :

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

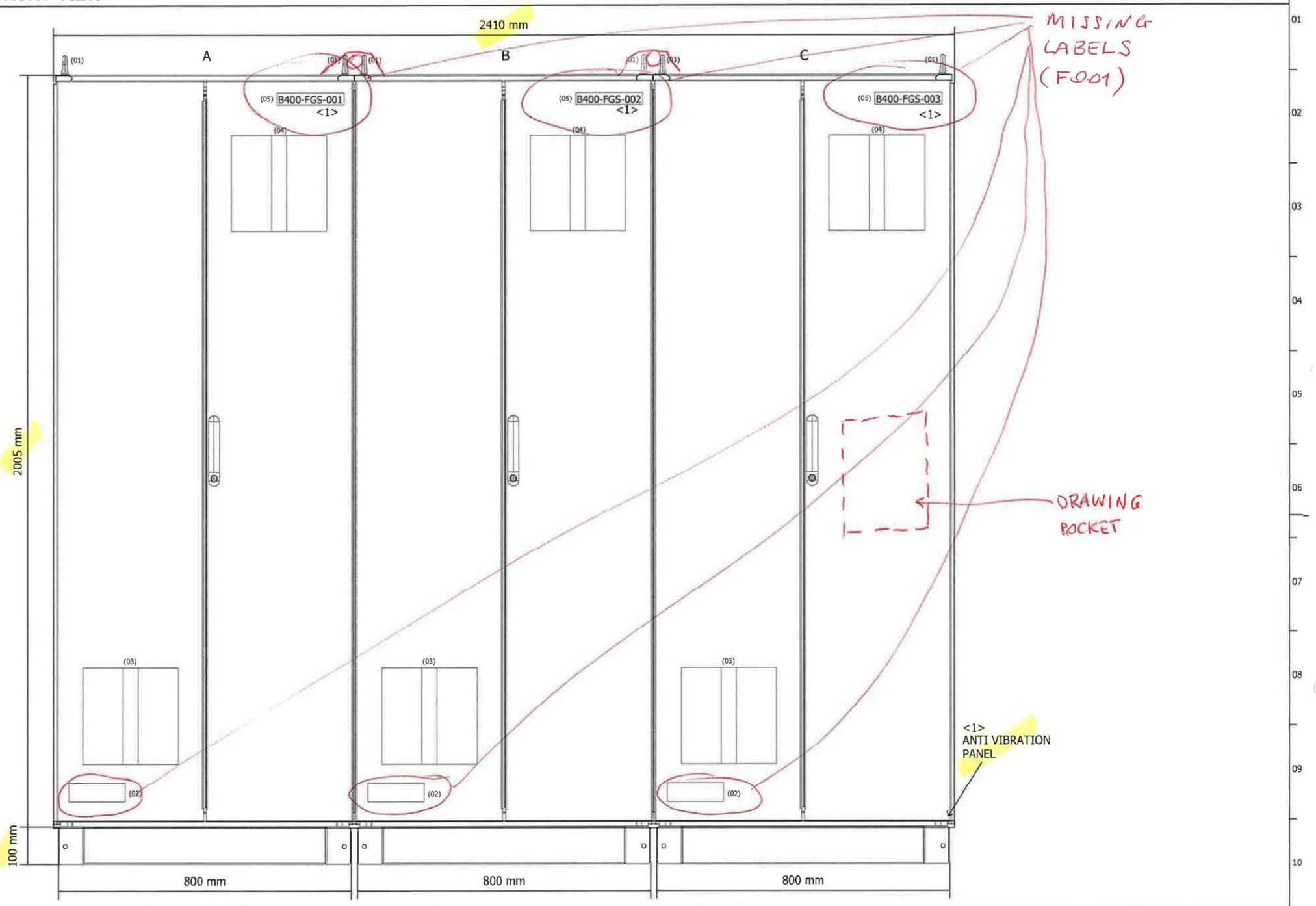
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

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

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DA-00010
SHEET 005
REV. 1

FGS PANEL - EXTERNAL FRONT VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL FRONT VIEW

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

SCALE : 1

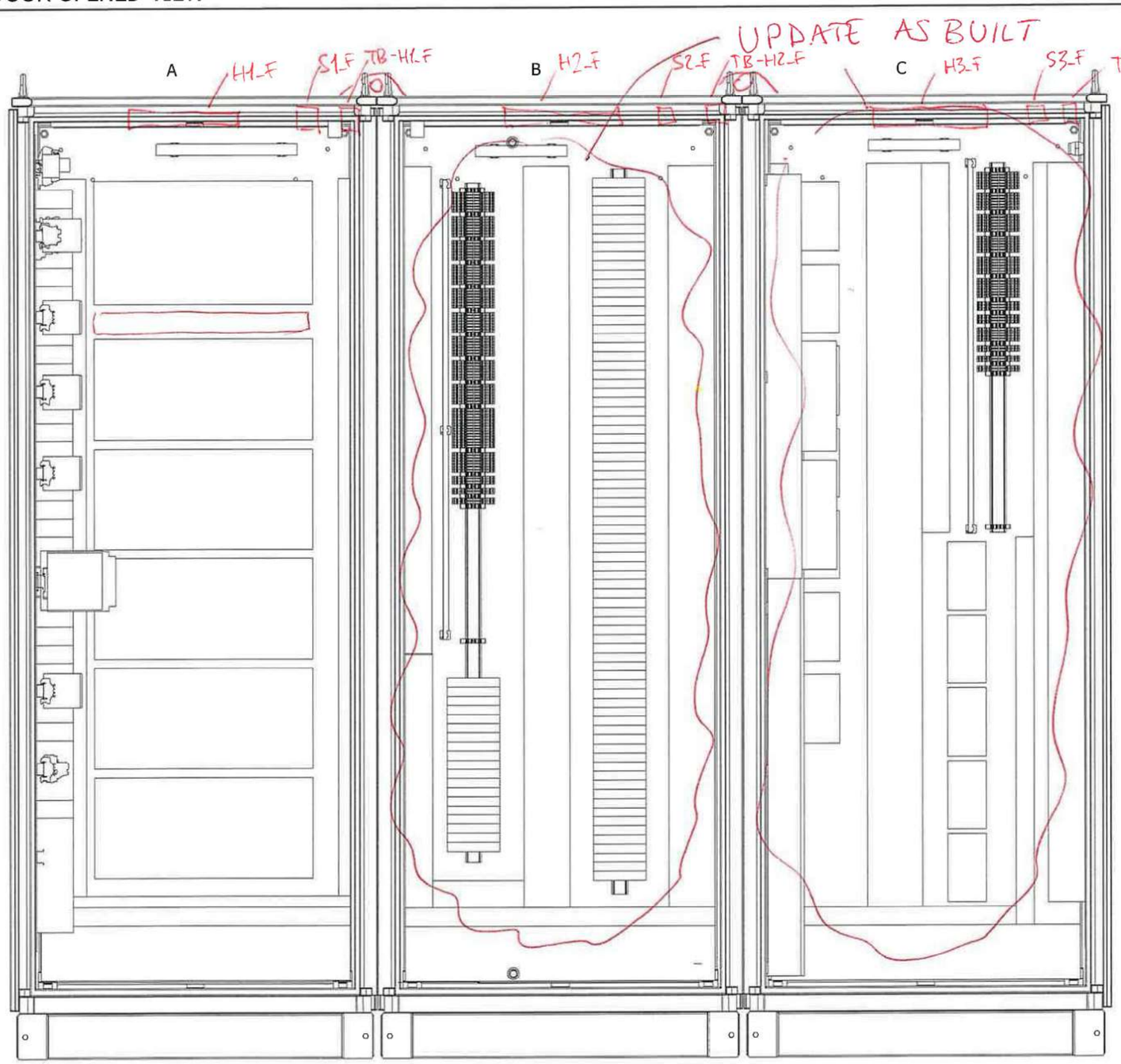
A3

DRAWING NO. 1724000594-IN-DA-00010

SHEET 006

REV. 1

FGS PANEL - EXTERNAL FRONT DOOR OPENED VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL FRONT DOOR OPENED VIEW

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

SCALE : 1

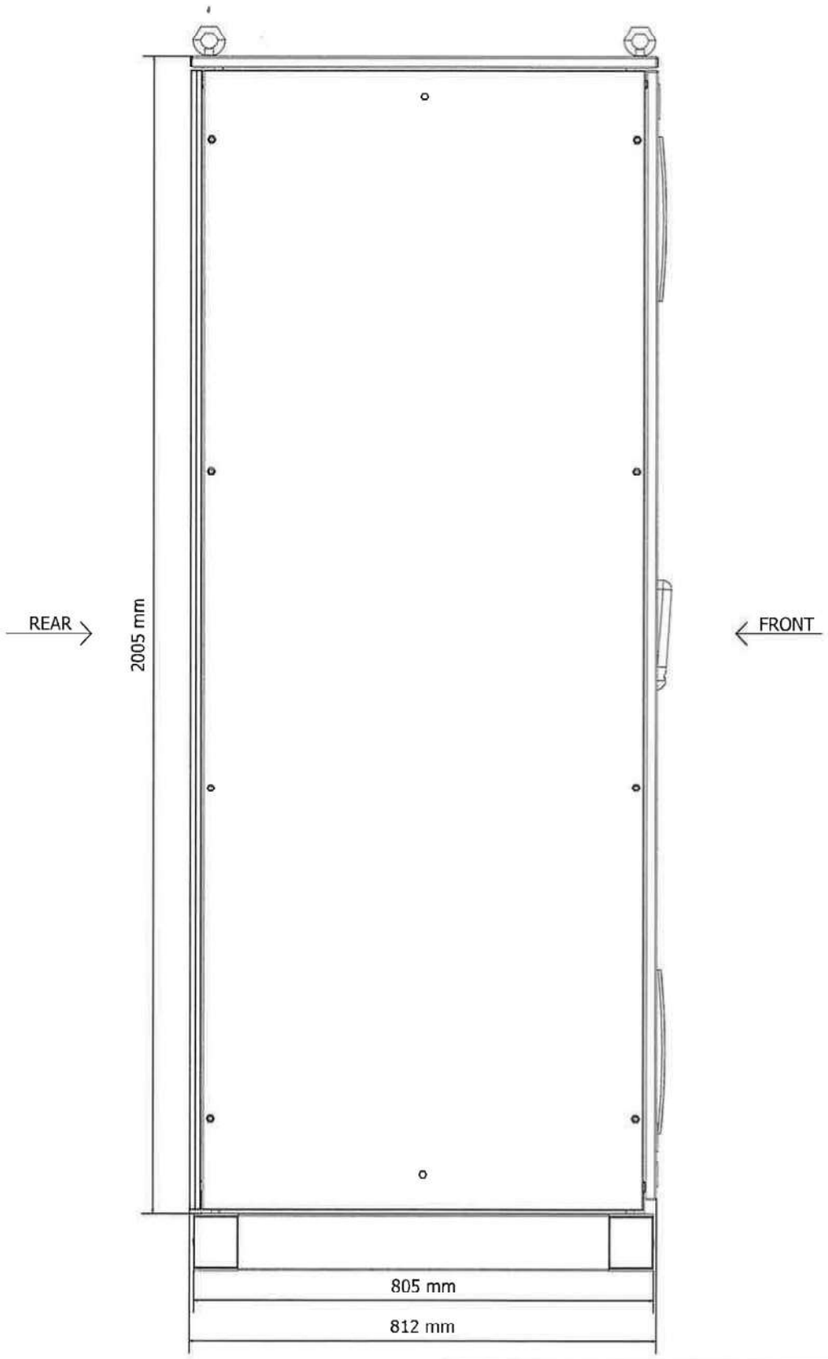
A3

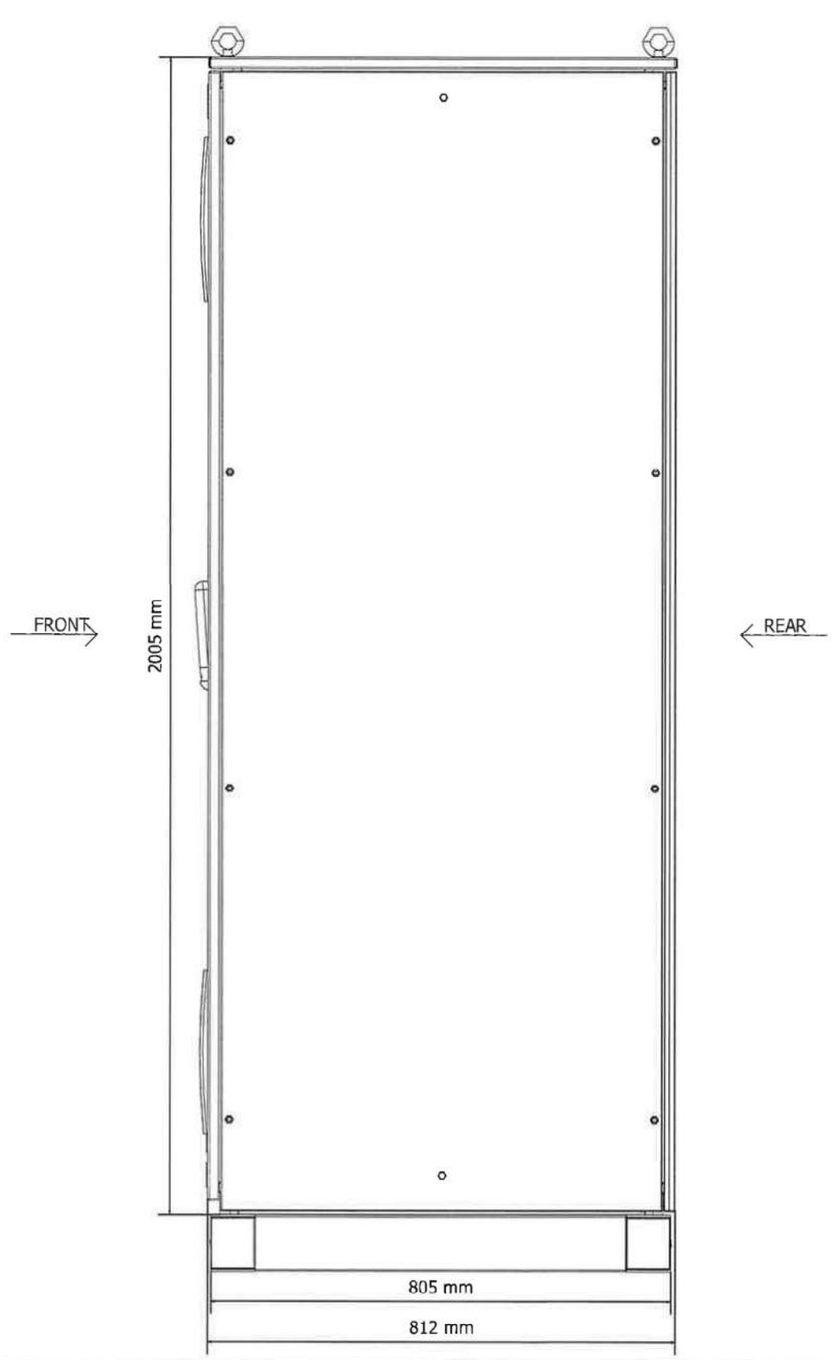
DRAWING NO.
1724000594-IN-DA-00010

SHEET 007

REV. 1

FGS PANEL - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW





DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW

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

SCALE : 1

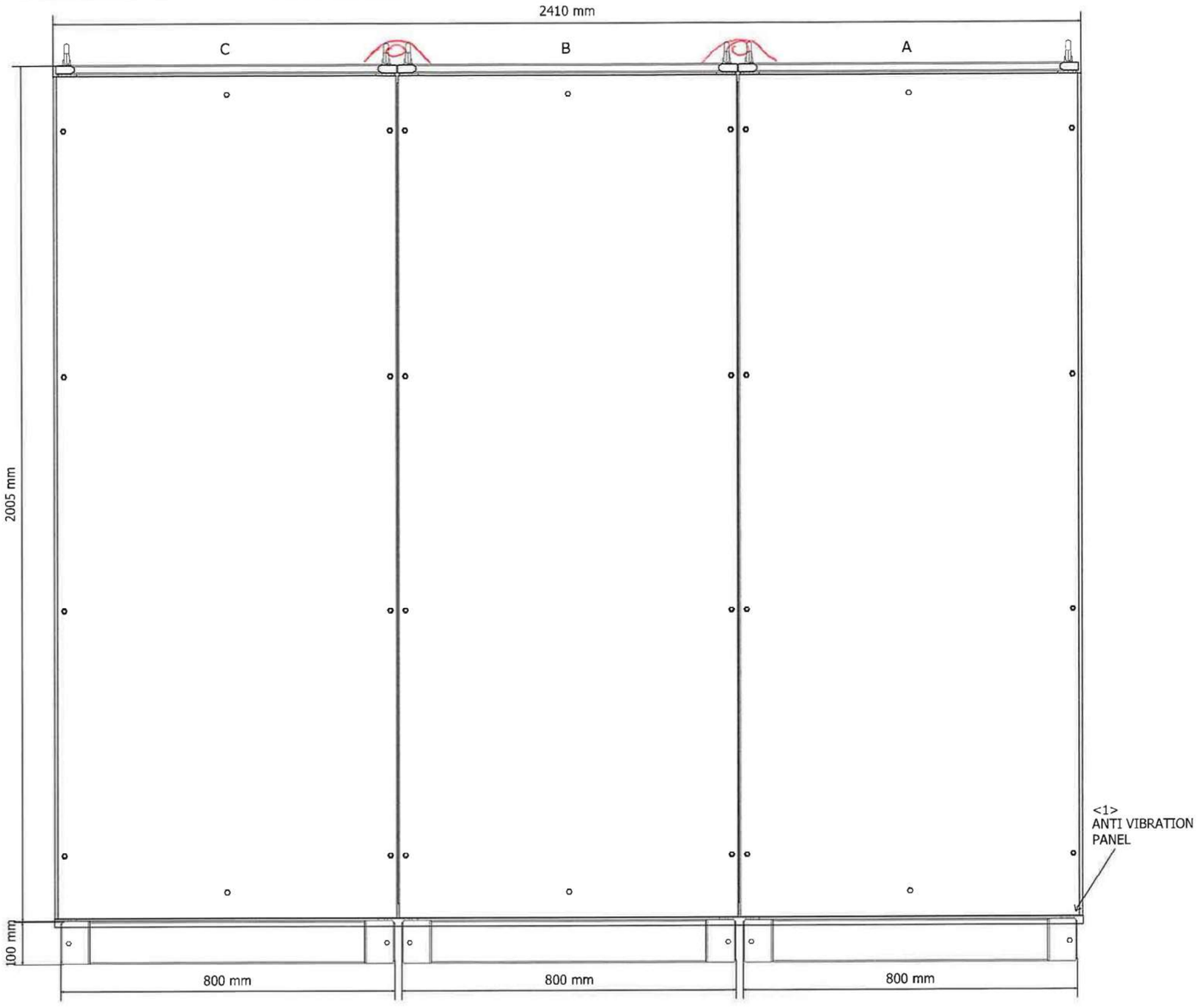
A3

DRAWING NO.
1724000594-IN-DA-00010

SHEET 008

REV. 1

FGS PANEL - EXTERNAL REAR VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL REAR VIEW

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

SCALE : 1

A3

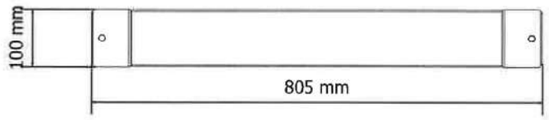
DRAWING NO.
1724000594-IN-DA-00010

SHEET 009

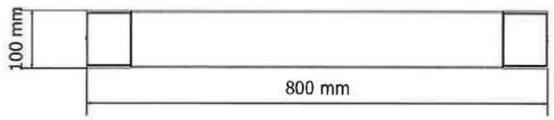
REV. 1

FGS PANEL - BASEPLATE DETAILS

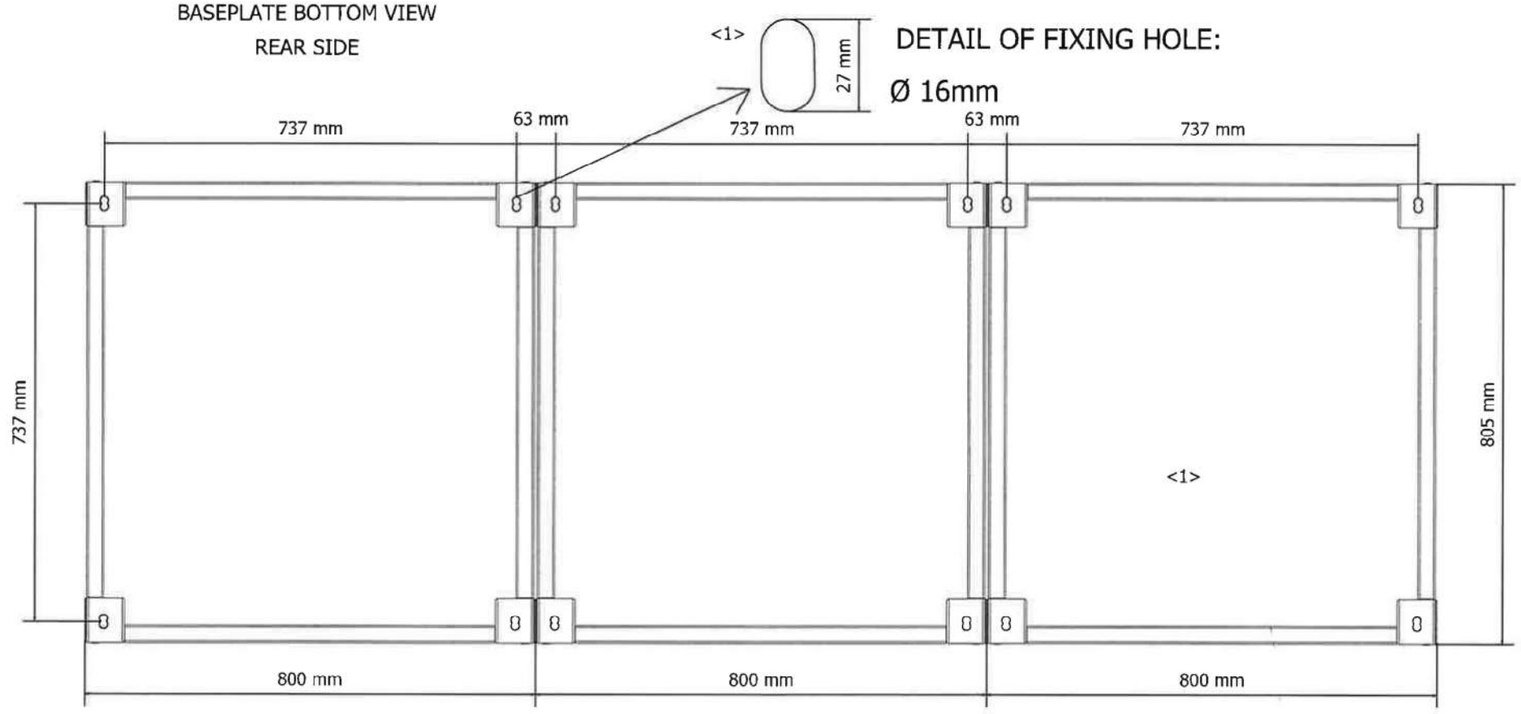
BASEPLATE SIDE VIEW



BASEPLATE FRONT VIEW



BASEPLATE BOTTOM VIEW
REAR SIDE



FRONT SIDE

<1>
DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - BASEPLATE DETAILS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00010

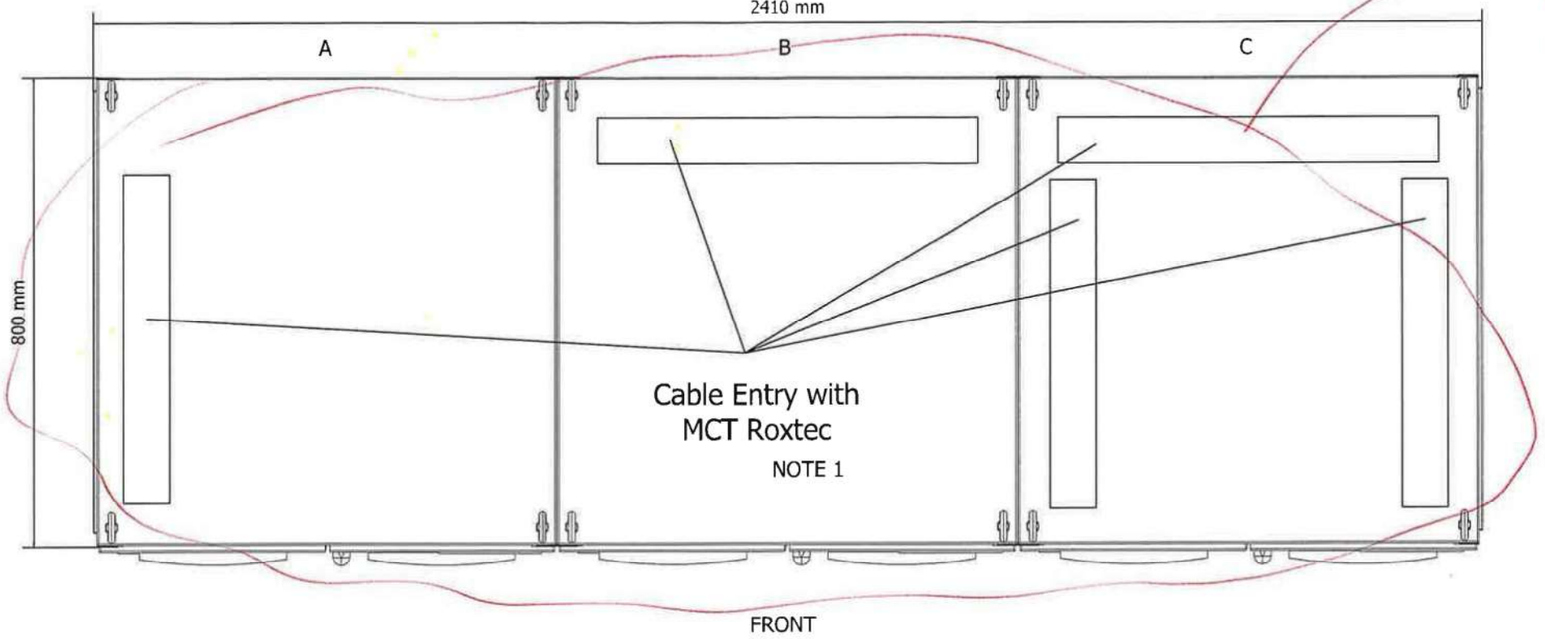
SHEET 010

REV. 1

FGS PANEL - EXTERNAL & INTERNAL TOP VIEW

EXTERNAL TOP VIEW

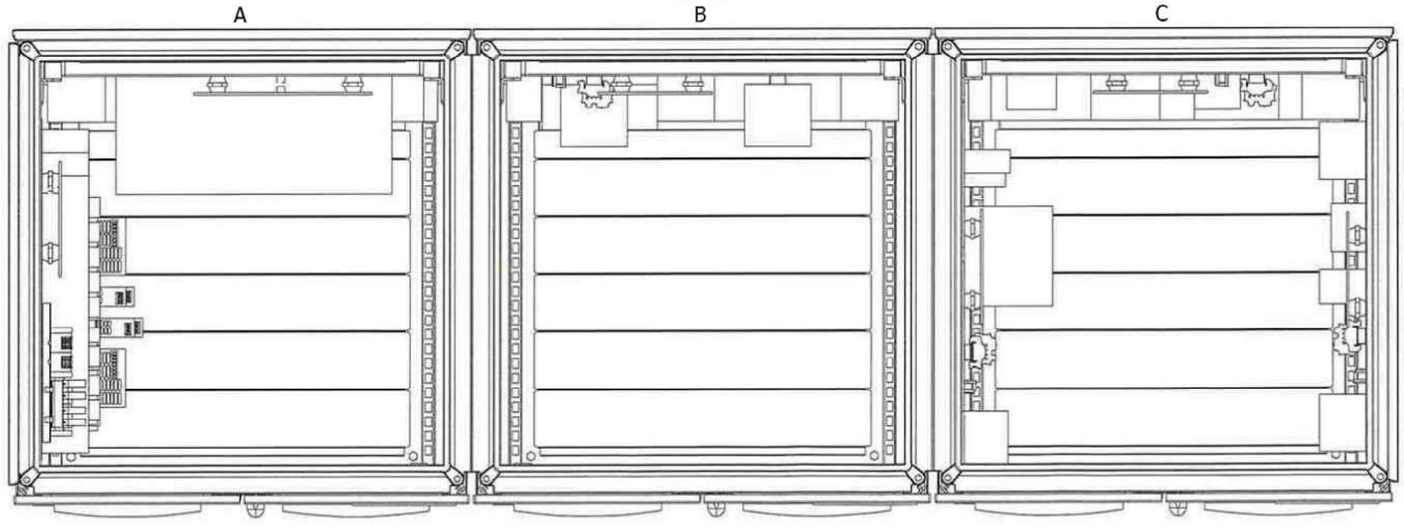
REAR



MCT NOT INSTALLED YET (F002)

INTERNAL TOP VIEW

REAR



FRONT

DRAWING SCALE 1:10

<1>

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL & INTERNAL TOP VIEW

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00010

SHEET 011

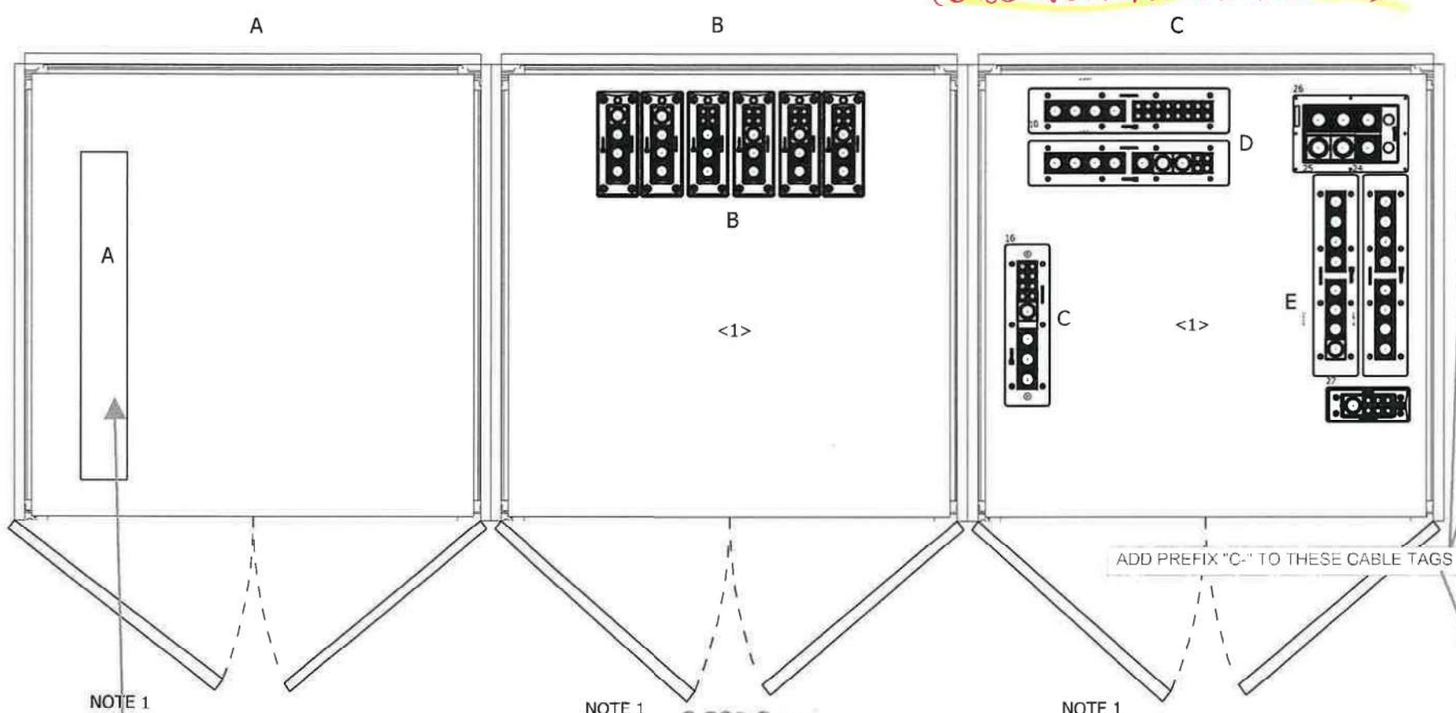
REV. 1

FGS PANEL - EXTERNAL TOP VIEW DOOR OPEN & MCT TABLE LIST

THE DRAWING SHALL SHOW THE EXACT POSITION OF EACH CABLE INSIDE EACH MCT FRAME.
SPARE "PLUGGED" ENTRIES SHALL ALSO BE PROVIDED.

EXTERNAL TOP VIEW
(DOOR OPEN)

NETWORK CABLES Vnet / IP TO BE ADDED (B400-NET1- A9/B9/A10/B10)



ADD PREFIX "C-" TO THESE CABLE TAGS

CABLE TAG	CABLE TYPE	OUTER CABLE DIAMETER (mm)	MCT SIZE	POSITION
77-HS-012B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-012/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
77-HS-013B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-013/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
77-HS-014B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-014/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
77-HS-015B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-015/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
77-HS-016B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	D
77-PSL-016/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
20-UCP-001/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	40x40	D
80-UCP-001/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	40x40	D
50-LP-002/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	40x40	D

CABLES TO BE ADDED IN FRAME "D"

B100-HSB-001/B400-FGS-002 - 6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS - 25.2mm
B200-HSB-001/B400-FGS-002 - 6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS - 25.2mm
B300-HSB-001/B400-FGS-002 - 6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS - 25.2mm

CABLE TAG	CABLE TYPE	OUTER CABLE DIAMETER (mm)	MCT SIZE	POSITION
950-JE-06204/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	40x40	C
950-JE-04204/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	40x40	C
950-JE-04208/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	40x40	C
950-SDZ-04201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04202/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04203/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04204/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04205/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-SDZ-04206/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	20x40	C
950-JE-01101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-02101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	50x50	E
950-JE-02102/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	50x50	E
950-JE-03101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	50x50	E
950-JE-04101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-05101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	50x50	E
950-JE-06101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-06201/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-04201/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-04205/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-01102/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-02103/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-JE-03102/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	40x40	E
950-GDZ-04201/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04202/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04203/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04204/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04205/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-GDZ-04206/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	40x40	E
950-JE-01104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-02104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-03104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-04103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-05103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-06103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-07101/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-06203/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-04203/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-JE-04207/B400-FGS-002	24x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	32.8	40x40	B
950-JE-05104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	40x40	B
950-XZ-04201/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
950-XL-04201/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
950-XL-04202/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
P320PLC/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	40x40	B
C-NC-200F2/B400-FGS-002.01	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
C-NC-200F2/B400-FGS-002.02	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	40x40	B
950-JE-01103/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
950-JE-03103/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
950-JE-04102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
950-JE-05102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
950-JE-06102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	40x40	D
C-950-MFA-02101/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	40x40	D
C-950-MFA-07101/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	40x40	D
C-950-MFA-06201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
C-950-MFA-04203/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
C-950-MFA-04202/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
C-950-MFA-05201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D
C-950-MFA-04201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	20x40	D

ADD PREFIX "C-" TO THESE CABLE TAGS

TAG NUMBER	FORMATION mm²	Internal Cable Color	Core Colour	Fire Detection	Armour WB/SWA/AWA/STA	MATED WEIGHT (T)	FROM ITEM Tag	FROM DESCRIPTION	FROM Equip. Grid Ref.	TO ITEM Tag	TO DESCRIPTION
[illegible]	3G2.5	Orange	BK/BU/YG	LSZH Fire Resistant	Armoured	2.0	DB 220V A	AC UPS 1 & 2 DB	DB CABINET	B400 / 05.001	FGS Fire & Gas Panel - Line A
[illegible]	3G2.5	Orange	BK/BU/YG	LSZH Fire Resistant	Armoured	2.0	DB 220V B	AC UPS 1 & 2 DB	DB CABINET	B400 / 05.001	FGS Fire & Gas Panel - Line B
[illegible]	3G2.5	Grey	BK/BU/YG	LSZH Flame Retardant	Unarmoured	2.0	DB 220V A	Lighting & Small Power DB Bulk	01/026	B400 / 05.001	FGS Fire & Gas Panel - Aux. In

NOTES :

NOTE 1: DOORS LOCK AT 90°

DRAWING SCALE 1:10

PLEASE ADD THESE CABLES IN MCT FRAME "A"

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL TOP VIEW DOOR OPEN & MCT TABLE LIST

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

SCALE : 1

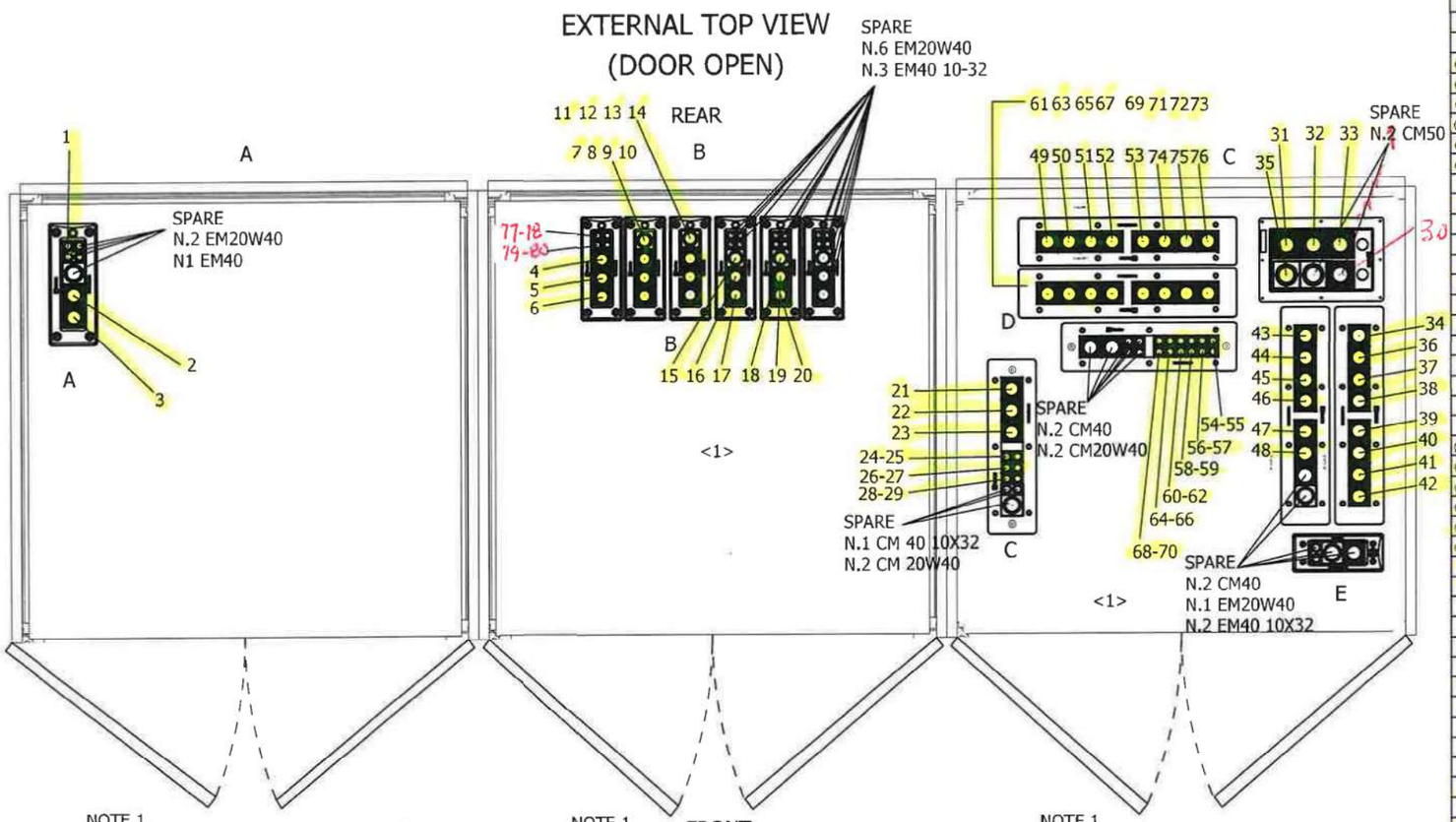
A3

DRAWING NO. 1724000594-IN-DA-00010

SHEET 012

REV. 1

FGS PANEL - EXTERNAL TOP VIEW DOOR OPEN & MCT TABLE LIST



CABLE TAG	CABLE TYPE	OUTER CABLE DIAM. (mm)	MCT SIZE	LOC.	POS.
C-77-HS-012B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	61
C-77-ZSL-012/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	62
C-77-HS-013B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	63
C-77-ZSL-013/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	64
C-77-HS-014B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	65
C-77-ZSL-014/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	66
C-77-HS-015B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	67
C-77-ZSL-015/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	68
C-77-HS-016B/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	CM40 10-32	D	69
C-77-ZSL-016/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	70
20-UCP-001/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	CM40 10-32	D	71
80-UCP-001/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	CM40 10-32	D	72
50-LP-002/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	CM40 10-32	D	73
<2> B100-HSB-001/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	74
<2> B200-HSB-001/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	75
<2> B300-HSB-001/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	76
<2> 84401-CEL	3G2.5, ORANGE, NIS	15.5	EM40 10x32	A	1
<2> 84402-CEL	3G2.5, ORANGE, NIS	15.5	EM40 10x32	A	2
<2> 83107-CEL	3G2.5, ORANGE, NIS	13	EM20W40	A	3

CABLE TAG	CABLE TYPE	OUTER CABLE DIAM (mm)	MCT SIZE	LOC.	POS.
950-JE-06204/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	CM40	C	21
950-JE-04204/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	CM40	C	22
950-JE-04208/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM,F.Res,LIGHT BLUE,IS	25.2	CM40	C	23
C-950-SDZ-04201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	24
C-950-SDZ-04202/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	25
C-950-SDZ-04203/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	26
C-950-SDZ-04204/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	27
C-950-SDZ-04205/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	28
C-950-SDZ-04206/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, LIGHT BLUE, IS	11.7	CM20W40	C	29
950-JE-01101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM 40	E	30
950-JE-02101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	CM50	E	31
950-JE-02102/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	CM50	E	32
950-JE-03101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	CM50	E	33
950-JE-04101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	34
950-JE-05101/B400-FGS-002	12x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	43.7	CM50	E	35
950-JE-06101/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	36
950-JE-06201/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	37
950-JE-04201/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	38
950-JE-04205/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	39
950-JE-01102/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	40
950-JE-02103/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	41
950-JE-03102/B400-FGS-002	6x3x2.5 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	32.9	CM40	E	42
C-950-GDZ-04201/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	43
C-950-GDZ-04202/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	44
C-950-GDZ-04203/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	45
C-950-GDZ-04204/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	46
C-950-GDZ-04205/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	47
C-950-GDZ-04206/B400-FGS-002	3x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.7	CM40 10X32	E	48
950-JE-01104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	4
950-JE-02104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	5
950-JE-03104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	6
950-JE-04103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	7
950-JE-05103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	8
950-JE-06103/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	9
950-JE-07101/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	10
950-JE-06203/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	11
950-JE-04203/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	12
950-JE-04207/B400-FGS-002	24x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	32.8	EM40 10x32	B	13
950-JE-05104/B400-FGS-002	12x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	24.2	EM40 10x32	B	14
C-950-XZ-04201/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	15
C-950-XL-04201/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	16
C-950-XL-04202/B400-FGS-002	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	17
P320PLC/B400-FGS-002	2x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	19.3	EM40 10x32	B	18
C-NC-200F2/B400-FGS-002.01	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	19
C-NC-200F2/B400-FGS-002.02	2x2.5 mm2, ShT+ARM, F.Res, ORANGE, NIS	14.1	EM40 10x32	B	20
950-JE-01103/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	49
950-JE-03103/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	50
950-JE-04102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	51
950-JE-05102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	52
950-JE-06102/B400-FGS-002	6x2x0.75 mm2, Sh+ShT+ARM, F.Res, ORANGE, NIS	25.2	CM40	D	53
C-950-MFA-02101/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	54
C-950-MFA-07101/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	55
C-950-MFA-05201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	56
C-950-MFA-04203/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	57
C-950-MFA-04202/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	58
C-950-MFA-05201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	59
C-950-MFA-04201/B400-FGS-002	1x2x0.75 mm2, ShT+ARM, F.Res, ORANGE, NIS	11.7	CM20W40	D	60
<2> B100-NET1-A9	CAT.6A 4x2xAWG23. Sh+Sht+ARM, F Ret, GREY, NIS	10.7	EM20W40	B	~~21~~ 77
<2> B100-NET1-B9	CAT.6A 4x2xAWG23. Sh+Sht+ARM, F Ret, GREY, NIS	10.7	EM20W40	B	~~22~~ 78
<2> B100-NET1-A10	CAT.6A 4x2xAWG23. Sh+Sht+ARM, F Ret, GREY, NIS	10.7	EM20W40	B	~~23~~ 79
<2> B100-NET1-B10	CAT.6A 4x2xAWG23. Sh+Sht+ARM, F Ret, GREY, NIS	10.7	EM20W40	B	~~24~~ 80

NOTES :

NOTE 1: DOORS LOCK AT 90°

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - EXTERNAL TOP VIEW DOOR OPEN & MCT TABLE LIST

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

SCALE : 1

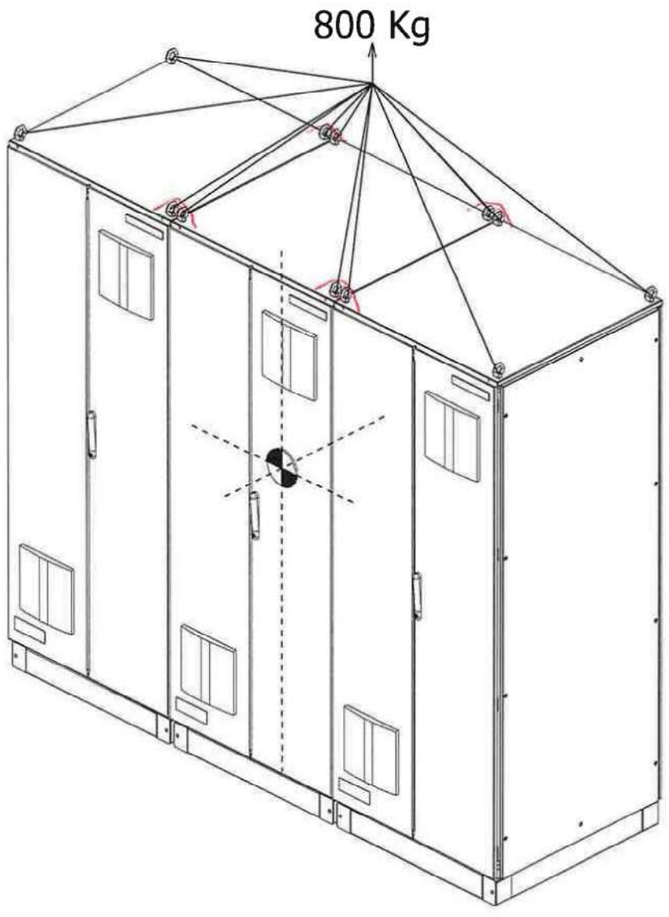
A3

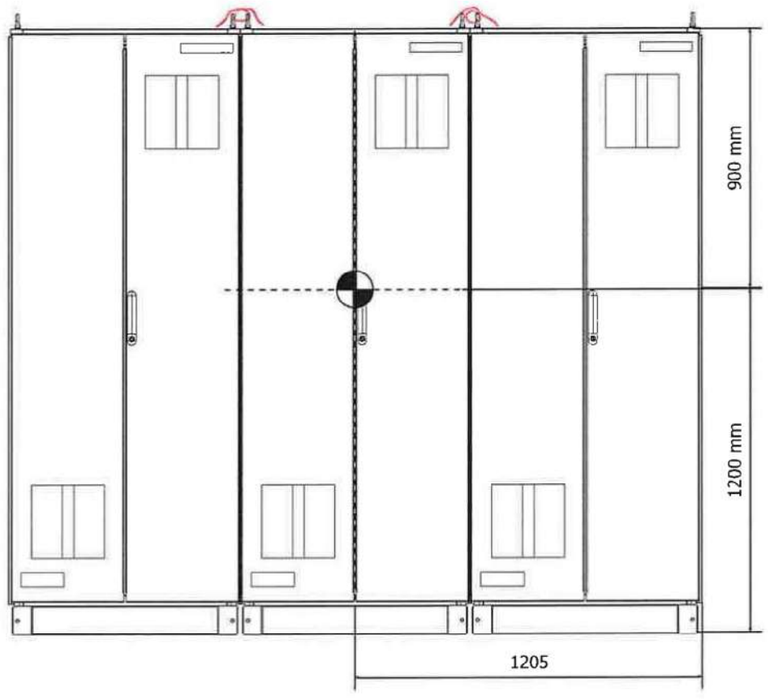
DRAWING NO. 1724000594-IN-DA-00010

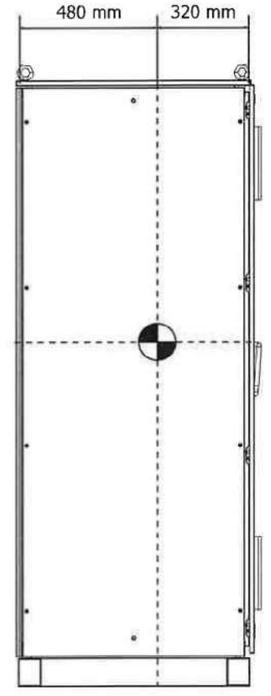
SHEET 012

REV. 1

FGS PANEL - LIFTING DETAILS







= CENTER OF GRAVITY

DRAWING SCALE 1:20
ALL QUOTES SHOWN ARE APPROXIMATE VALUE

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - LIFTING DETAILS

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00010

SHEET 013

REV. 1

FGS PANEL - FRONT DOOR CUT-OUT DETAILS



NOTE 1 : CUT-OUT FOR AIR VENTILATION FILTER

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - FRONT DOOR CUT-OUT DETAILS

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00010

SHEET 014

REV. 1

FGS PANEL - FRONT SIDE INTERNAL VIEW

FRONT SIDE

DEVICE "A"
(26) -S2SC70D-FA12010
(22) -N: 6: SAI143-H63
<1> (23) -N: 2: SEC401-S1 — 51
(24) -N: 2: S2CP471-01
(25) -N: 2: SPW482-53
(37) AIP 602

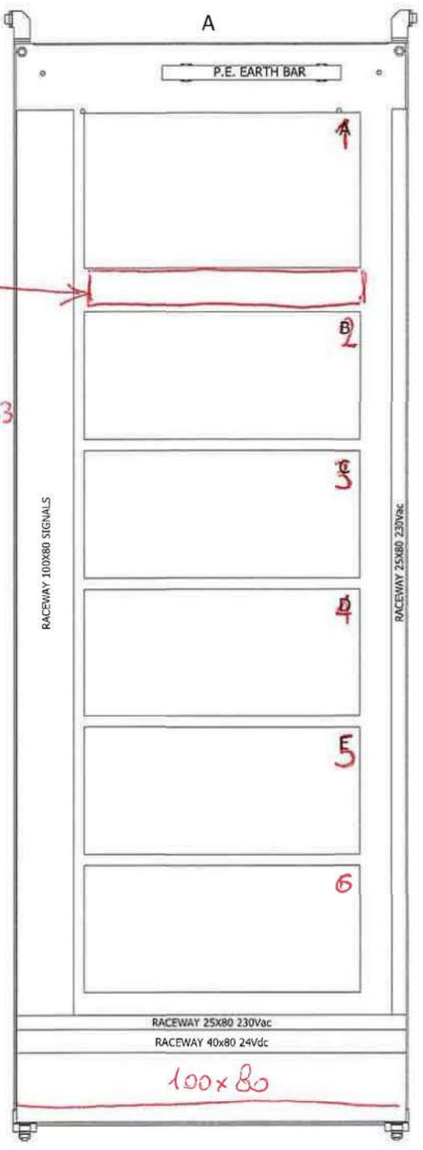
DEVICE "B"
(27) -SNB10D-425/CU2N
(22) -N: 4: SAI143-H63
(28) -N: 2: SDV144-S63
<1> (29) -N: 2: SDV541-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53

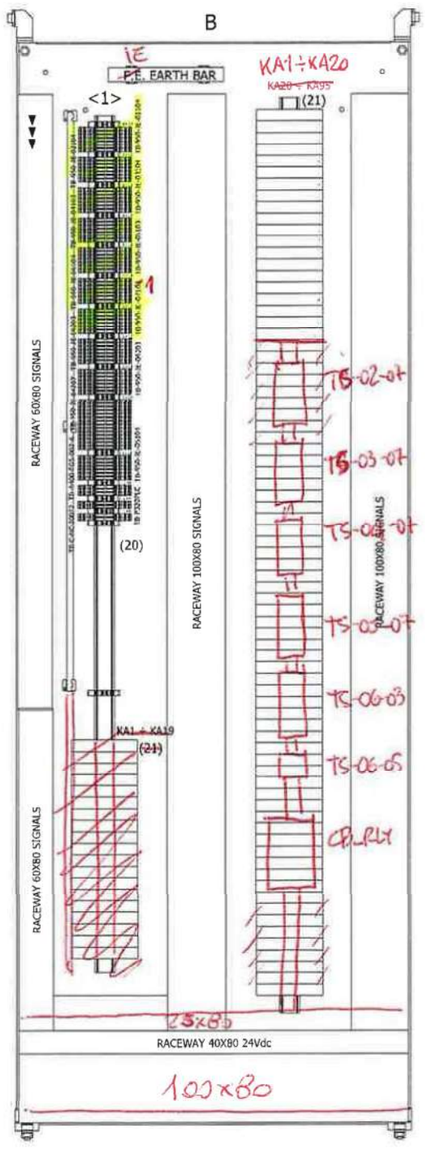
DEVICE "C"
(27) -SNB10D-425/CU2N
(22) -N: 4: SAI143-H63
(28) -N: 2: SDV144-S63
<1> (29) -N: 2: SDV541-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53

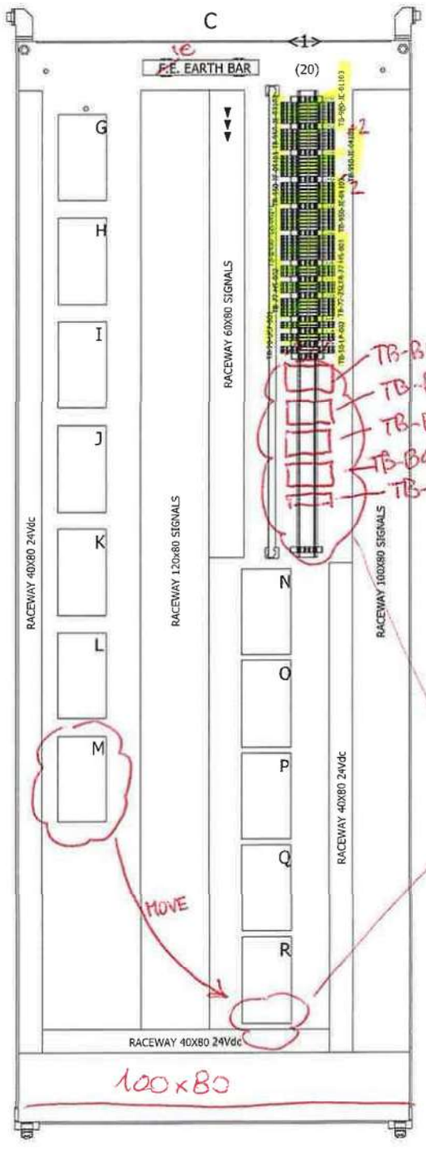
DEVICE "D"
(27) -SNB10D-425/CU2N
(22) -N: 4: SAI143-H63
(28) -N: 2: SDV144-S63
<1> (29) -N: 2: SDV541-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53

DEVICE "E"
(27) -SNB10D-425/CU2N
(22) -N: 2: SAI143-H63
(28) -N: 4: SDV144-S63
<1> (29) -N: 2: SDV541-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53

DEVICE "F"
(30) -SNB10D-425/CU2T
-N: 2: SPARE
<1> (29) -N: 4: SDV541-S63
(28) -N: 2: SPARE SDV144-S63
(36) (23) -N: 2: SEC401-S1 SSB401-53
(25) -N: 2: SPW482-53







DEVICE "G" ÷ "R"
SBD4D-06 (31)

G = TB-02-07 (31)
H = TB-03-07
I = TB-04-07
J = TB-05-07
K = TB-06-03
L = TB-06-05
M = TB-06-07
N = TB-02-05
O = TB-03-05
P = TB-04-05
Q = TB-05-03
R = TB-05-05

TB-B100-HSB-001
TB-B200-HSB-001
TB-B300-HSB-001
TB-B400-HSB-001
TB-B0-UCP-001

TO BE ADDED AS-BUILT

GENERAL COMMENT:
PLEASE EVALUATE THE POSSIBILITY TO INCREASE AS MUCH AS POSSIBLE THE SIZE OF RACEWAYS FOR FIELD CABLES.
PLEASE IDENTIFY THEM WITH A DIFFERENT PATTERN.

⋮ = CABLE ENTRY

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

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

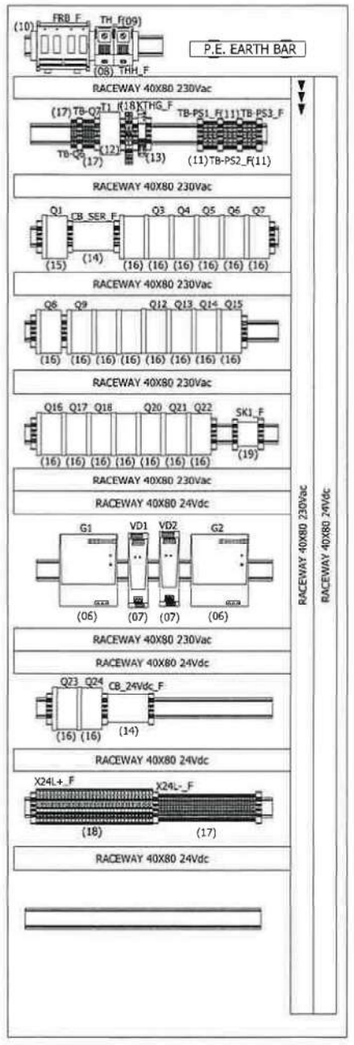
TITLE :
BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - FRONT SIDE INTERNAL VIEW

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DA-00010
SHEET 015
REV. 1

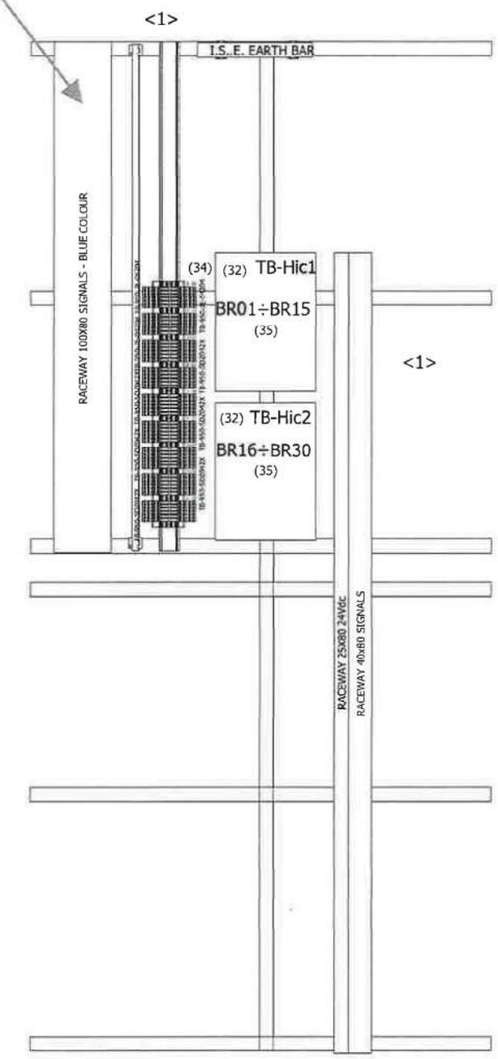
FGS PANEL - RIGHT/LEFT SIDE INTERNAL VIEWS

PLEASE IDENTIFY WITH A DEDICATED PATTERN ALL RACEWAYS FOR I.S. CIRCUITS

LEFT SIDE (A)

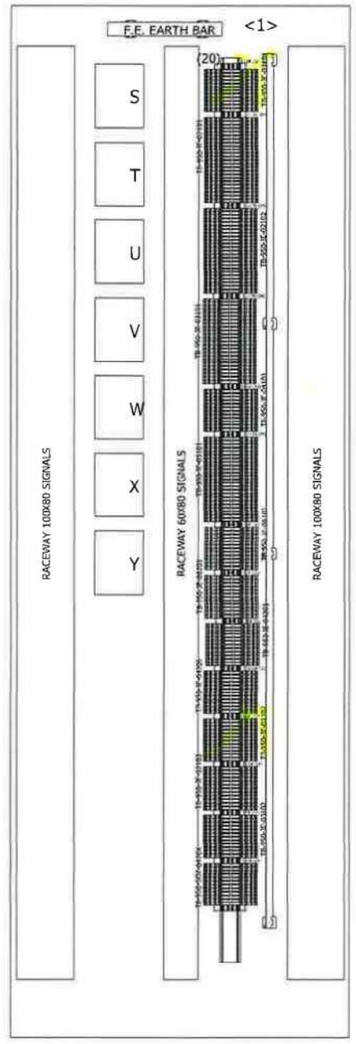


LEFT SIDE (C)



RIGHT SIDE (C)

DEVICE "S" ÷ "Y"
SBA4D-06 (33)



▼ = CABLE ENTRY

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.09.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)
0	29.05.2024	A.G.	A.B.	S.C.	Issue for Review (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_CLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SAFETY SYSTEMS CABINET (SIS & FGS) GEN. ARR. DRW AND INT. LAYOUT
FGS - RIGHT/LEFT SIDE INTERNAL VIEWS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00010

SHEET 016

REV. 1

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE
060	X									BASE LOAD POWER HUB (BLPH) SPARE PAGE
061	X	X								BASE LOAD POWER HUB (BLPH) 24Vdc POWER DISTRIBUTION
062	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - FAULT ALARM SIGNALS TO DCS
063	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - RACK "A" POWER DISTRIBUTION
064	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - RACK "B" POWER DISTRIBUTION
065	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - RACK "C" POWER DISTRIBUTION
066	X									BASE LOAD POWER HUB (BLPH) SIS PANEL - TYPICAL WIRING DIGITAL INPUT/OUTPUT
067	X									BASE LOAD POWER HUB (BLPH) SIS PANEL - TYPICAL WIRING ANALOG INPUT
068	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
069	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL OUTPUT SIGNALS
070	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL OUTPUT SIGNALS
071	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL OUTPUT SIGNALS
072	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
073	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL INPUT SIGNALS
074	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL INPUT SIGNALS
075	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - DIGITAL INPUT SIGNALS
076	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
077	X	X								BASE LOAD POWER HUB (BLPH) SIS PANEL - ANALOG INPUT SIGNALS

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

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
INDEX

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 003

REV. 1

NUMBER	SYMBOL	REFERENCE	DESCRIPTION
01		IEC 60417-5031	DIRECT CURRENT
02		IEC 60417-5032	ALTERNATING CURRENT
03		IEC 60417-5033	BOTH DIRECT AND ALTERNATING CURRENT
04		.	THREE-PHASE ALTERNATING CURRENT
05		IEC 60417-5017	EARTH (GROUND) TERMINAL
06		IEC 60417-5019	PROTECTIVE CONDUCTOR TERMINAL
07		IEC 60417-5020	FRAME OR CHASSIS TERMINAL
08		IEC 60417-5021	EQUIPOTENTIALITY
09		IEC 60417-5007	ON (SUPPLY)
10		IEC 60417-5008	OFF (SUPPLY)
11		IEC 60417-5172	EQUIPMENT PROTECTED THROUGHOUT BY DOUBLE INSULATION OR REINFORCED INSULATION
12		.	CAUTION RISK OF ELECTRIC SHOCK
13		IEC 60417-5041	CAUTION HOT SURFACE
14		ISO 7000-0434	CAUTION RISK OF DANGER
15		IEC 60417-5266	IN POSITION OF A BI-STABLE PUSH CONTROL
16		IEC 60417-5269	OUT POSITION OF A BI-STABLE PUSH CONTROL

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
LEGEND

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 03A

REV. 1

MSXX XA	ROTATIVE MAIN SWITCH -	EVx Flx	ELECTRIC FAN WITH FAULT DETECTION	BARRIER NAME	I.S. BARRIER (NOTE: AB-xx FOR ACTIVE BARRIERS, ZB-xx FOR ZENER BARRIERS)
QFXX XA XMA Qx 13 14 I> I>	DIFFERENTIAL RESIDUAL CURRENT CIRCUIT BREAKER WITH AUXILIARY CONTACT	HEx	PANEL ELECTRIC HEATER -	ISOLATOR NAME	GALVANIC ISOLATOR -
QFXX XA Qx 13 14	AUTOMATIC CIRCUIT BREAKER WITH AUXILIARY CONTACT	T1 230Vac 24Vac 230Vac/24Vac	AC/AC VOLTAGE TRANSFORMER -	1	FUSED TERMINAL -
QUXX XA	DISCONNECTOR WITH FUSE -	TH 1 2 <1>	THERMOSTATE NO CONTACT -	1	KNIFE TERMINAL -
QFXX XA XMA I> I>	PURE RESIDUAL CURRENT CIRCUIT BREAKER	KXX	NO CONTACT -	1	FEED THROUGH TERMINAL -
L1 SAX PEN L2 PEM *1 2805331 *2 2807569 - -	SURGE ARRESTOR -	KXX	NC CONTACT -	(20-B02) PAGE ROW (20-B02) COLUMN	PAGE CROSS REFERENCE INDICATION -
EF-1 TB-2 TB-1	LINE FILTER MODULE -	Sx	DOOR LIMIT SWITCH -	CBxx L N	COMMON BOX -
SKxx	SERVICE SOCKET -	HA-x	FRONT PANEL ALARM BUZZER -		- -
GDXX 4 IBDW AC DC	AC/DC FEEDER -	Hx 15W	INTERNAL LIGHT OR FRONT PANEL LIGHT		- -
VDX IN IN OUT OUT REDUNDANCY DIODE MODULE 40A	REDUNDANCY DIODE MODULE -		MUSHROOM PUSHBUTTON INDICATOR NORMAL PUSHBUTTON INDICATOR		- -
KX	RELAYS -		ROTATIVE SELECTOR INDICATOR -		- -
	- -	Rp 10kΩ	RESISTOR -		- -
	- -		- -		- -

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SYMBOL LEGEND

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

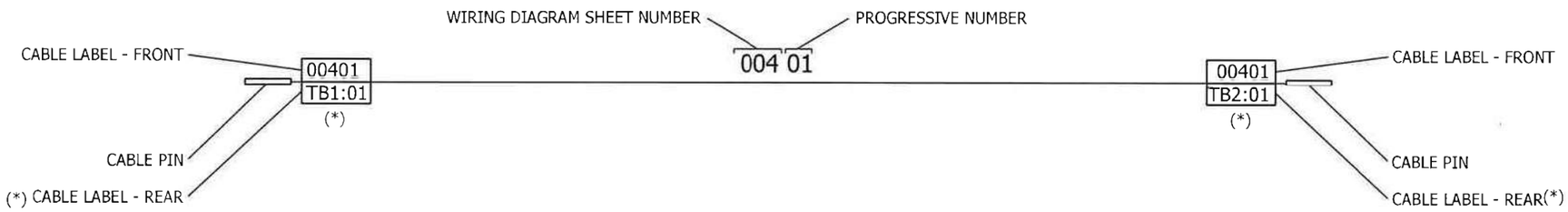
SHEET 004

REV. 1

COLOR ACRONYMS LIST :

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

TYPICAL WIRE MARKING



EARTH CONNECTION RESUME TABLE:

	CABINET
P.E. EARTH	▭
I.E. EARTH	▭
I.S.E. EARTH	▭

EARTH ACRONYMS LEGEND :

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

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

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS

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

A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 005
REV. 1

FGS PANEL - POWER DISTRIBUTION FROM UPS LINE 1

230Vac-50Hz
FROM UPS#1
(BY CUSTOMER)

CUSTOMER CONNECTION POINT

TB-PS1_F

00601 BR 6 mm² — 00603 LB 6 mm² — 00611 YG 6 mm² — PE

MS1_F
230Vac
32A

CB_UPS1_F
(007-B02)

(007-C02)
(007-C02)

00604 BR 6 mm² — 00602 LB 6 mm²

	Q6	Q7	Q8	Q9	Q10
Cable	00605 BR 2,5 mm² / 00606 LB 2,5 mm²	00607 BR 2,5 mm² / 00608 LB 2,5 mm²	00609 BR 2,5 mm² / 00610 LB 2,5 mm²	00512 BR 2,5 mm² / 00613 LB 2,5 mm²	00614 BR 2,5 mm² / 00615 LB 2,5 mm²
Device	Q6 230Vac 16A "C" CURVE	Q7 230Vac 6A "D" CURVE	Q8 230Vac 6A "D" CURVE	Q9 230Vac 6A "D" CURVE	Q10 230Vac 6A "D" CURVE
	(017-B02)	(017-A02)	(017-A03)	(017-B03)	(017-C03)
Cable	01501 BR 2,5 mm² / 01502 LB 2,5 mm²	02201 BR 1,5 mm² / 02202 LB 1,5 mm²	02301 BR 1,5 mm² / 02302 LB 1,5 mm²	02401 BR 1,5 mm² / 02402 LB 1,5 mm²	02501 BR 1,5 mm² / 02502 LB 1,5 mm²
	(015-B02) / (015-B02)	(022-G02) / (022-G02)	(023-G02) / (023-G02)	(024-G02) / (024-G02)	(025-G02) / (025-G02)
	POWER SUPPLY G1_F	POWER SUPPLY (1) RACK "A" PW482-51 (1)	POWER SUPPLY (1) RACK "B" PW482-51 (2)	POWER SUPPLY (1) RACK "C" PW482-51 (3)	POWER SUPPLY (1) RACK "D" PW482-51 (4)

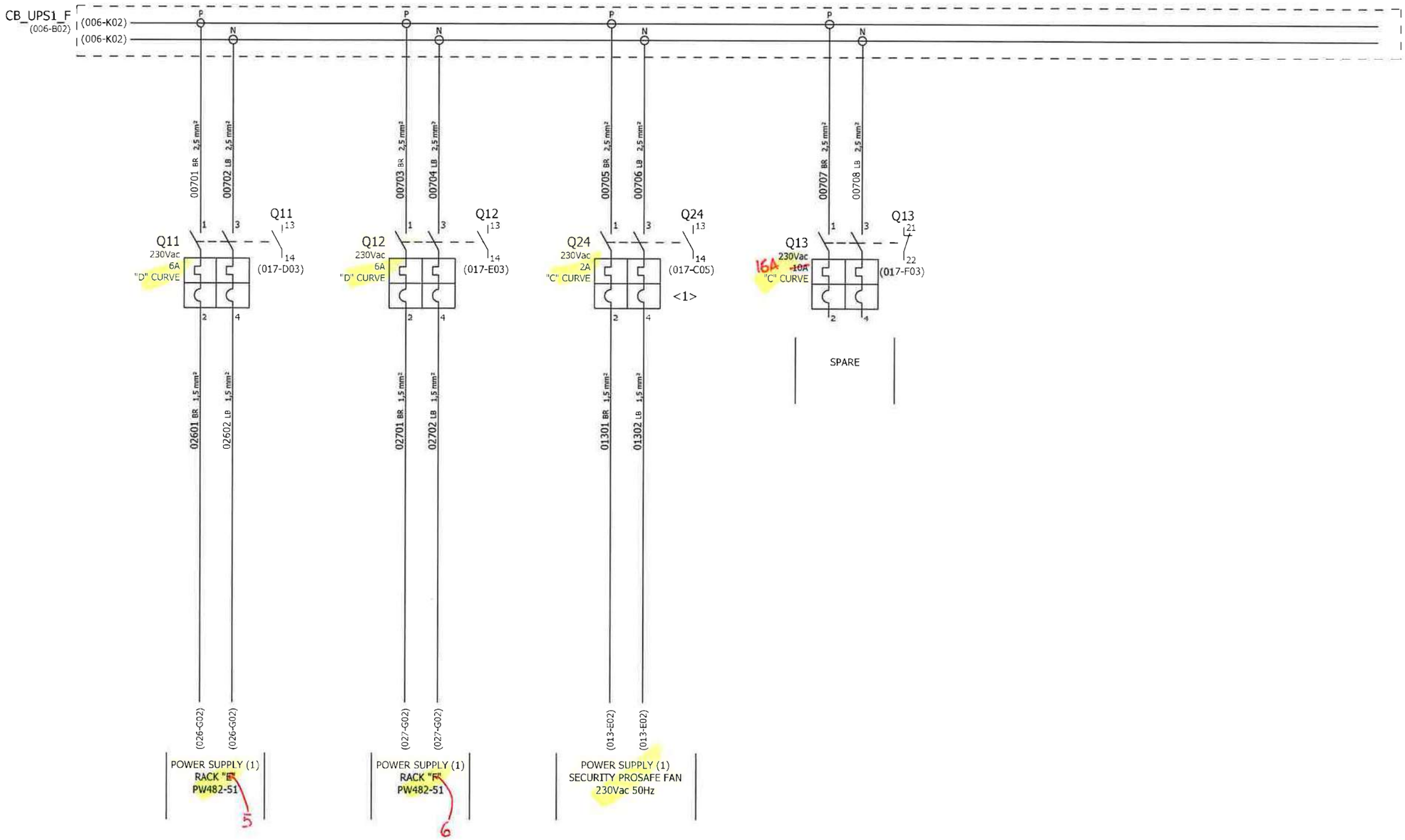
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

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

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 006
REV. 1

FGS PANEL - POWER DISTRIBUTION FROM UPS LINE 1



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 007

REV. 1

FGS PANEL - POWER DISTRIBUTION FROM UPS LINE 2

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

CUSTOMER CONNECTION POINT

TB-PS2_F 1 2 3

00801 BR 6 mm² — 00803 LB 6 mm² — 00611 YG 6 mm² — PE

CB_UPS2_F
(009-B02)

(009-C02)
(009-C02)

MS2_F
230Vac
32A

00804 BR 6 mm²
00802 LB 6 mm²

	Q14	Q15	Q16	Q17	Q18
230Vac	16A "C" CURVE	6A "D" CURVE	6A "D" CURVE	6A "D" CURVE	6A "D" CURVE
	(017-G03)	(017-F04)	(017-E04)	(017-D04)	(017-C04)
	00805 BR 2,5 mm²	00807 BR 2,5 mm²	00809 BR 2,5 mm²	00811 BR 2,5 mm²	00813 BR 2,5 mm²
	00806 LB 2,5 mm²	00808 LB 2,5 mm²	00810 LB 2,5 mm²	00812 LB 2,5 mm²	00814 LB 2,5 mm²
	01503 BR 2,5 mm²	02203 BR 1,5 mm²	02303 BR 1,5 mm²	02403 BR 1,5 mm²	02503 BR 1,5 mm²
	01504 LB 2,5 mm²	02204 LB 1,5 mm²	02304 LB 1,5 mm²	02404 LB 1,5 mm²	02504 LB 1,5 mm²
	(015-H02) (015-H02)	(022-H02) (022-H02)	(023-H02) (023-H02)	(024-H02) (024-H02)	(025-H02) (025-H02)
	POWER SUPPLY G2_F	POWER SUPPLY (2) RACK "A" PW482-51 1	POWER SUPPLY (2) RACK "B" PW482-51 2	POWER SUPPLY (2) RACK "C" PW482-51 3	POWER SUPPLY (2) RACK "D" PW482-51 4

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND — ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 008

REV. 1

A B C D E F G H J K

FGS PANEL - POWER DISTRIBUTION FROM UPS LINE 2

01 02 03 04 05 06 07 08 09 10

CB_UPS2_F
(008-B02)

(008-K02) P
(008-K02) N

00901 BR 2,5 mm² — Q19 1 — Q19 2 — 02603 BR 1,5 mm² — (026-H02) — POWER SUPPLY (2) RACK "E" PW482-51 — 5
00902 LB 2,5 mm² — Q19 3 — Q19 4 — 02604 LB 1,5 mm² — (026-H02)

Q19 230Vac 6A "D" CURVE — Q19 13 — 14 (017-B04)

00903 BR 2,5 mm² — Q20 1 — Q20 2 — 02703 BR 1,5 mm² — (027-H02) — POWER SUPPLY (2) RACK "F" PW482-51 — 6
00904 LB 2,5 mm² — Q20 3 — Q20 4 — 02704 LB 1,5 mm² — (027-H02)

Q20 230Vac 6A "D" CURVE — Q20 13 — 14 (017-A04)

00905 BR 2,5 mm² — Q25 1 — Q25 2 — 01303 BR 1,5 mm² — (013-F02) — POWER SUPPLY (2) SECURITY PROSAFE FAN 230Vac 50Hz
00906 LB 2,5 mm² — Q25 3 — Q25 4 — 01304 LB 1,5 mm² — (013-F02)

Q25 230Vac 2A "C" CURVE — Q25 13 — 14 (017-D05) <1>

00907 BR 2,5 mm² — Q21 1 — Q21 2
00908 LB 2,5 mm² — Q21 3 — Q21 4

Q21 230Vac 10A "C" CURVE — Q21 21 — 22 (017-B05)

SPARE

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND — ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 009

REV. 1

FGS PANEL - POWER DISTRIBUTION FROM NON UPS

230Vac-50Hz
FROM MCC
(BY CUSTOMER)

CUSTOMER CONNECTION POINT

TB-PS3_F 1 2 3

01001 BR 6 mm² | 01003 LB 6 mm² | 00611 YG 6 mm² → PE

CB_SER_F
(011-A01)

N P P P N P N

(011-A01)
(011-A01)

01004 LB 6 mm² | 01002 BR 6 mm²

01005 BR 2.5 mm² | 01007 LB 2.5 mm²

01009 BR 2.5 mm² | 01015 LB 2.5 mm²

01020 BR 2.5 mm² | 01021 LB 2.5 mm²

Q1
230Vac
25A
Id 30mA
(017-G02)

Q2
230Vac
16A
"C" CURVE
(017-F02)

Q3
230Vac
2A
"C" CURVE
(017-E02)

Q4
230Vac
4A
"C" CURVE
(017-D02)

SPARE

01006 BR 2.5 mm² | 01008 LB 2.5 mm²

01010 BR 1.5 mm² | 01011 BR 1.5 mm² | 01012 BR 1.5 mm²

S1_F | S2_F | S3_F

01013 BR 1.5 mm² | 01018 BR 1.5 mm² | 01019 BR 1.5 mm²

H1_F | H2_F | H3_F

SK1_F — 00611 YG 2,5 mm² → PE

01014 LB 1,5 mm² | 01017 LB 1,5 mm² | 01017 LB 1,5 mm²

SERVICE SOCKET
230Vac 50Hz

INTERNAL LIGHT (LEFT SIDE)
230Vac 50Hz
TOTAL CONSUMPTION: 15W

INTERNAL LIGHT (CENTRAL SIDE)
230Vac 50Hz
TOTAL CONSUMPTION: 15W

INTERNAL LIGHT (RIGHT SIDE)
230Vac 50Hz
TOTAL CONSUMPTION: 15W

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

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

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

SCALE : 1

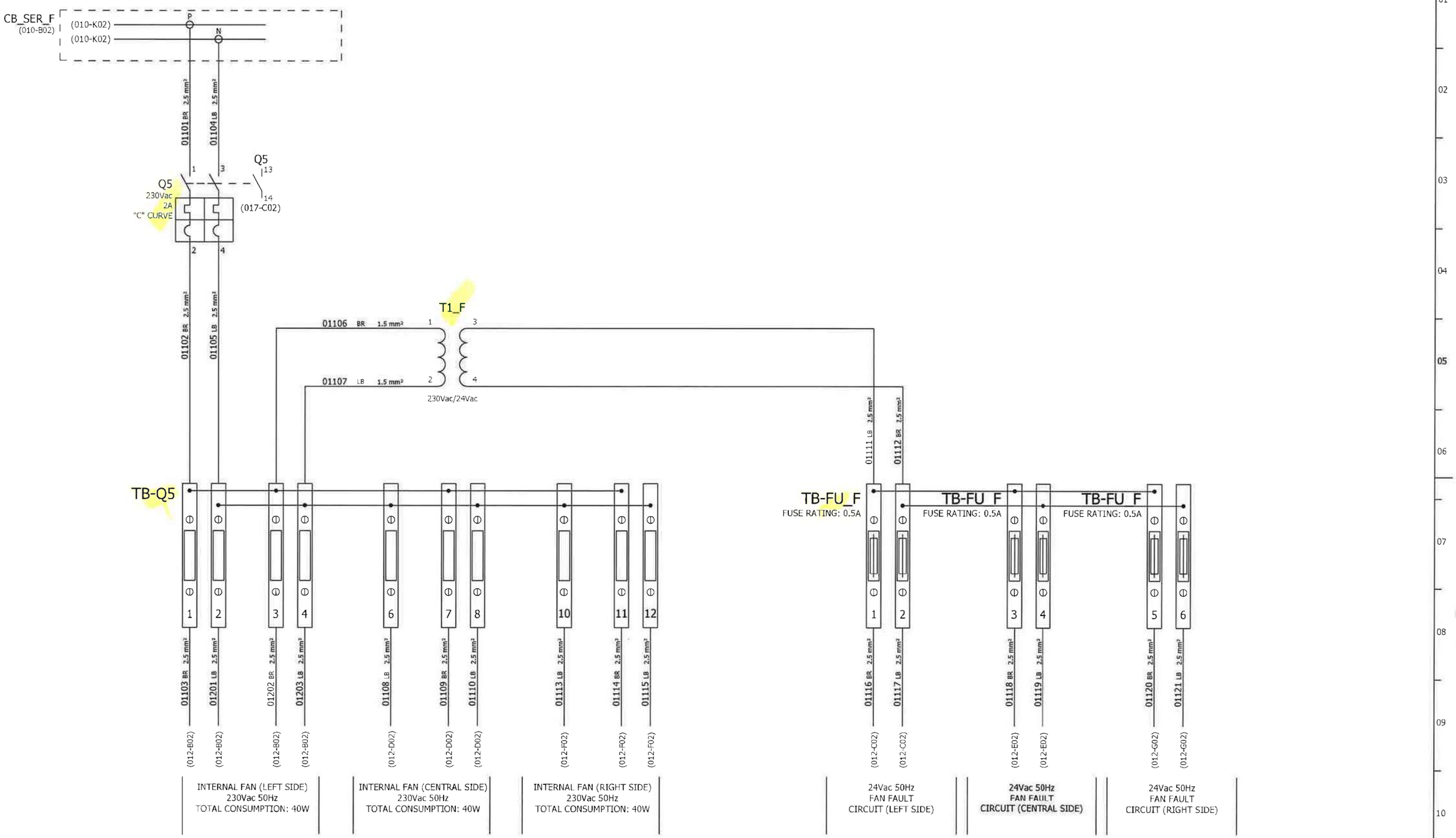
A3

DRAWING NO.
1724000594-IN-DG-00021

SHEET 010

REV. 1

FGS PANEL - POWER DISTRIBUTION FROM NON UPS



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

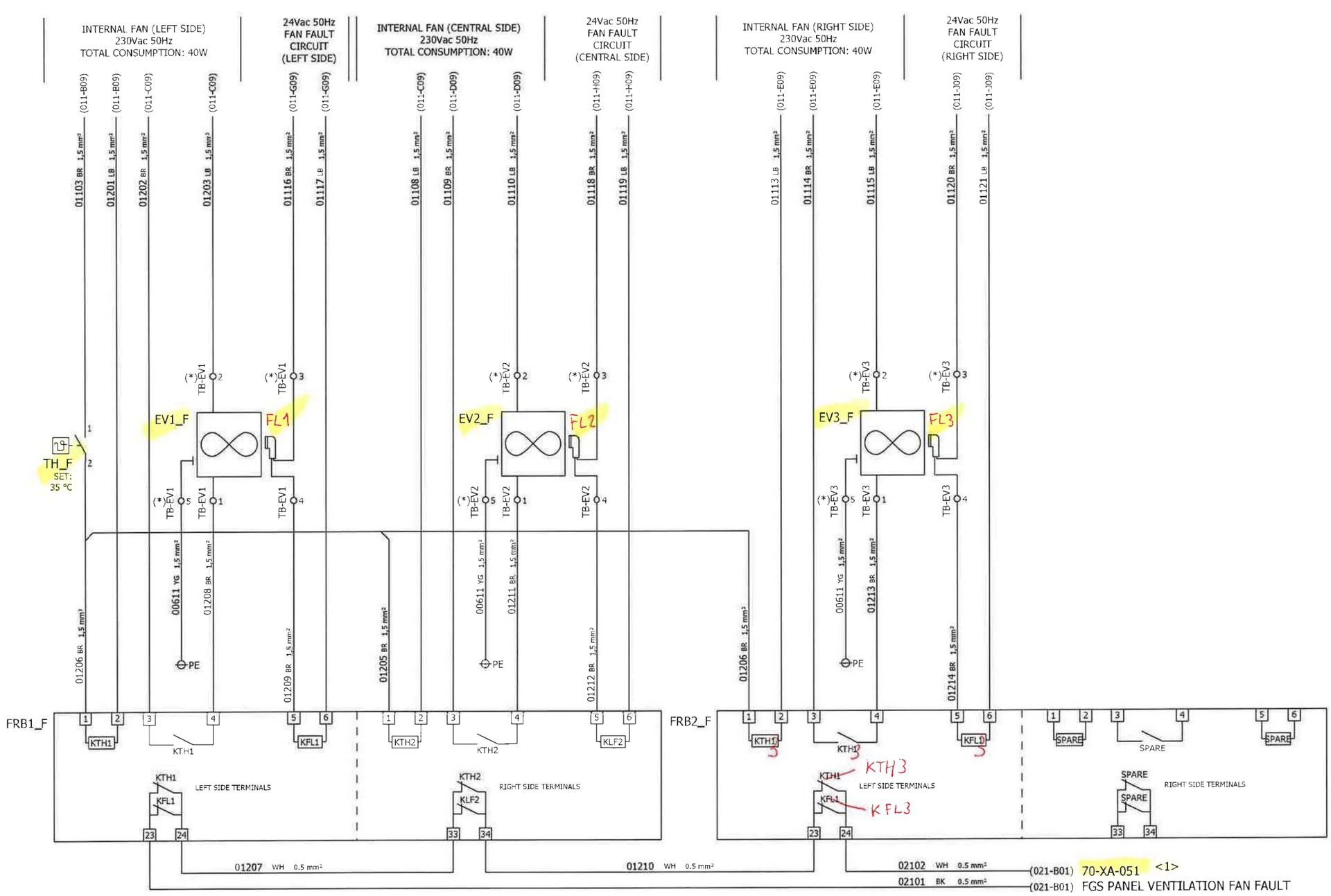
A3

DRAWING NO.
1724000594-IN-DG-00021

SHEET 011

REV. 1

FGS PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN & HEATER



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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

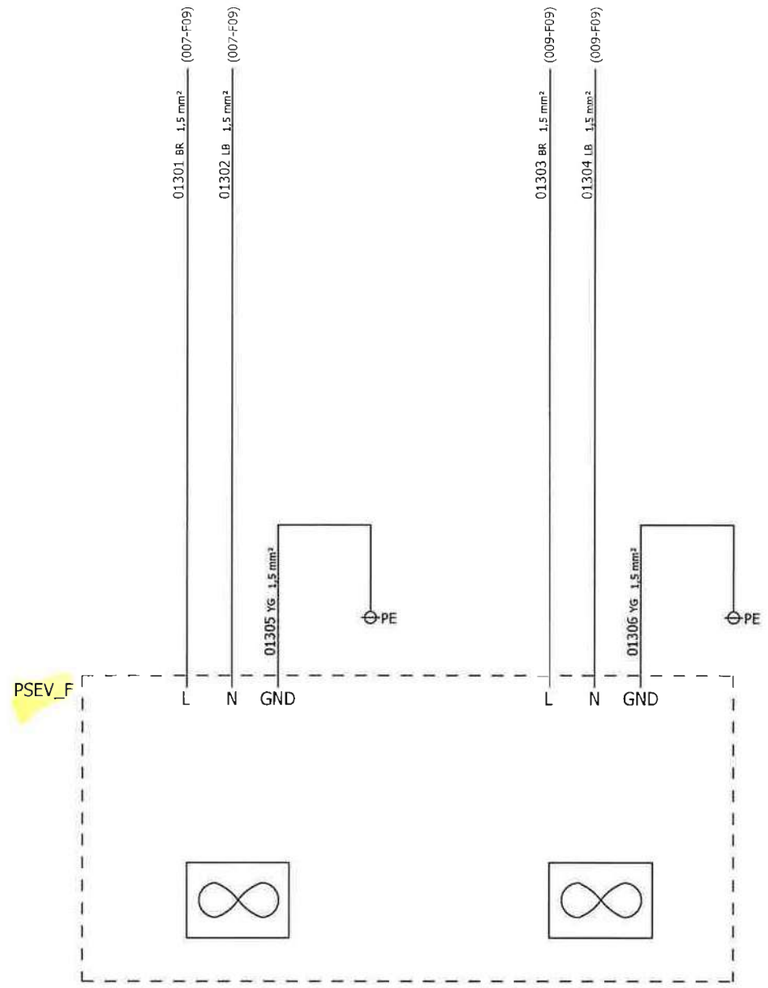
CROSSWIND | ROSETTI MARINO

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

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

A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 012
REV. 1

FGS PANEL - 230Vac 50Hz POWER DISTRIBUTION SECURITY PROSAFE FAN



1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - 230Vac 50Hz POWER DISTRIBUTION SECURITY PROSAFE FAN

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

A3 | DRAWING NO. 1724000594-IN-DG-00021 | SHEET 013 | REV. 1

SHEET LEFT INTENTIONALLY BLANK

1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 014

REV. 1

FGS PANEL - 230Vac/24Vdc POWER DISTRIBUTION

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#1

(006-D09) 01501 BR 2,5 mm² — (006-D09) 01502 LB 2,5 mm²

G1_F
IN: 230Vac
OUT: 24Vdc
480W
20A
WEIDMULLER PRO ECO
code 1469510000

02103 WH 1 mm² (021-B02)
01414 WH 1 mm²
00611 YG 2,5 mm² PE

70-XA-052
FGS PANEL POWER SUPPLY
24Vdc FAILURE <1>

01505 RD 4 mm² — 01507 BU 4 mm² — 01506 RD 4 mm² — 01510 BU 4 mm²

VD1_F
20A
WEIDMULLER PRO DM 20
code 2486080000
IN1+ IN1- IN2+ IN2-
OUT+ OUT-
<1>
<1>

01508 RD 6 mm² — 01511 BU 6 mm²

INSTALLED 16A
TO BE REPLACED
(F003)

Q22
24Vdc
32A
Q22 13 14 (017-D07)

01509 RD 6 mm² — 01512 BU 6 mm²

CB_24Vdc_F
(019-A01)
(020-A01)
(021-A05)
(019-A01)
(019-A01)

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#2

(008-D08) 01503 BR 2,5 mm² — (008-D08) 01504 LB 2,5 mm²

G2_F
IN: 230Vac
OUT: 24Vdc
480W
20A
WEIDMULLER PRO ECO
code 1469510000

01415 WH 1 mm²
02104 BK 1 mm² (021-B02)
00611 YG 2,5 mm² PE

70-XA-052
FGS PANEL POWER SUPPLY
24Vdc FAILURE

01513 RD 4 mm² — 01515 BU 4 mm² — 01514 RD 4 mm² — 01518 BU 4 mm²

VD2_F
20A
WEIDMULLER PRO DM 20
code 2486080000
IN1+ IN1- IN2+ IN1-
OUT+ OUT-
<1>
<1>

01516 RD 6 mm² — 01519 BU 6 mm²

Q23
24Vdc
32A
Q23 13 14 (017-C07)

01517 RD 6 mm² — 01520 BU 6 mm²

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND — ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 015

REV. 1

SHEET LEFT INTENTIONALLY BLANK

1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

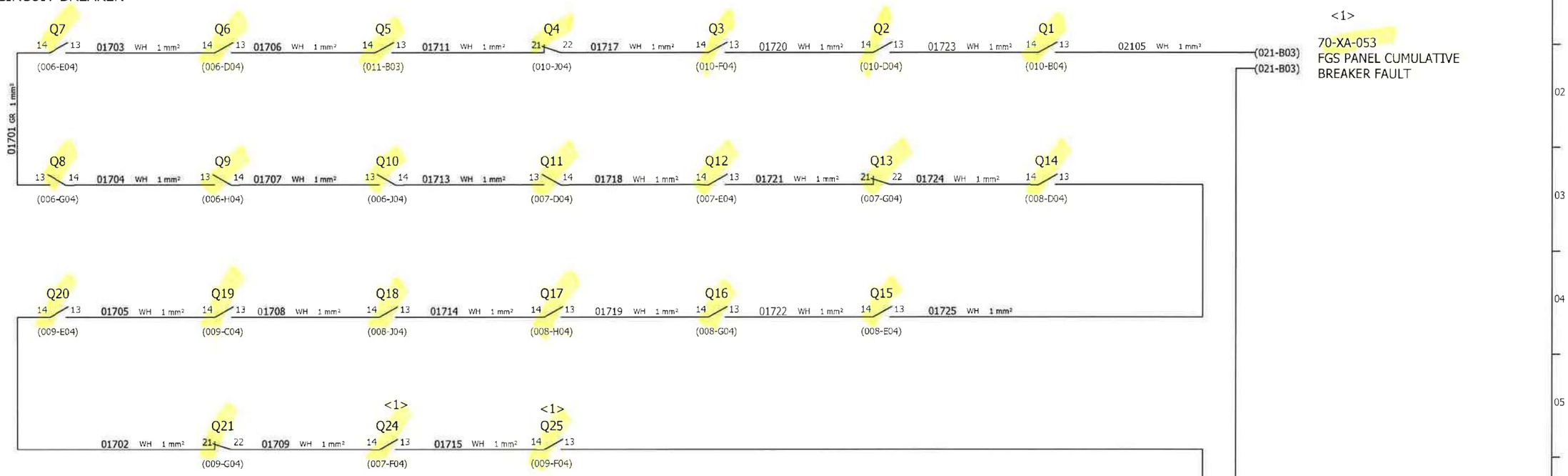
DRAWING NO.
1724000594-IN-DG-00021

SHEET 016

REV. 1

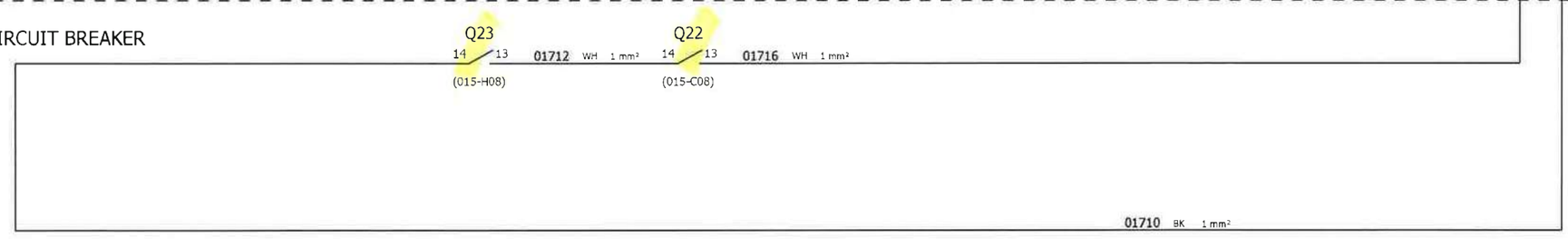
FGS PANEL - BRAKER FAULT ALARM CIRCUIT

230Vac CIRCUIT BREAKER



<1>
70-XA-053
FGS PANEL CUMULATIVE
BREAKER FAULT

24Vdc CIRCUIT BREAKER



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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - BREAKER FAULT ALARM CIRCUIT

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

SCALE : 1

A3

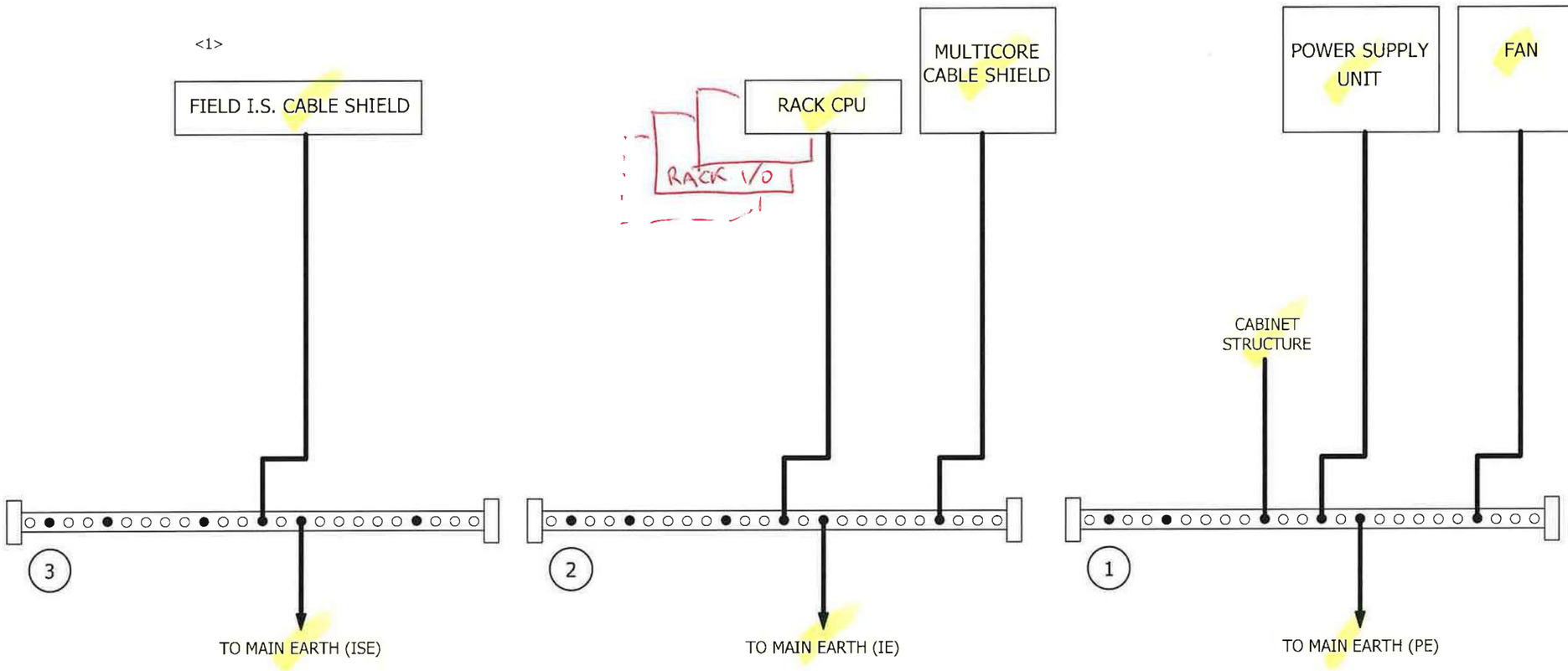
DRAWING NO. 1724000594-IN-DG-00021

SHEET 017

REV. 1

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

<1>



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 018

REV. 1

FGS PANEL - 24Vdc POWER DISTRIBUTION

CB_24Vdc_F

(015-B10) | (015-J10) (020-A01)
(020-A01) | (015-J10) (020-A01)
(021-A05) | (015-J10) (020-A01)

01901 RD 4 mm²
01903 BU 4 mm²
01902 RD 4 mm²
01904 BU 4 mm²

F1
10A

01905 RD 4 mm²
01907 BU 4 mm²
01906 RD 4 mm²
01908 BU 4 mm²

F2
10A

CB-COM-A1

TO TYPICAL FGS_DO02
RELAY SIGNAL POWER SUPPLY
(PAG 028)

CB_RLY

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

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

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
24Vdc POWER DISTRIBUTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 019
REV. 1

FGS PANEL - 24Vdc POWER DISTRIBUTION

CB_24Vdc_F

(015-B10) | (019-K01)
(019-A01)
(021-A05) | (019-K01)

(021-B05)
(021-B05)

02001 RD 4 mm²
02003 BU 4 mm²
02066 BU 4 mm²
02065 RD 4 mm²
02063 RD 4 mm²
02064 BU 4 mm²

XL24+_F ~~X24L+~~
XL24-_F ~~X24L-~~

<1>

1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21	22	22	23	23	24	24	25	25	26	26	27	27	28	28	29	29	30	30	31	31	32	32	33	33	34	34
																																																																		SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE

02002 RD 1,5 mm² — 24Vdc for TB-02-05 (1) — 1+ 1-
02004 BU 1,5 mm² — 24Vdc for TB-02-05 (2) — 2+ 2-
02005 RD 1,5 mm² — 24Vdc for TB-02-07 (1) — 1+ 1-
02006 BU 1,5 mm² — 24Vdc for TB-02-07 (2) — 2+ 2-
02007 RD 1,5 mm² — 24Vdc for TB-03-05 (1) — 1+ 1-
02008 BU 1,5 mm² — 24Vdc for TB-03-05 (2) — 2+ 2-
02009 RD 1,5 mm² — 24Vdc for TB-03-07 (1) — 1+ 1-
02010 BU 1,5 mm² — 24Vdc for TB-03-07 (2) — 2+ 2-
02011 RD 1,5 mm² — 24Vdc for TB-04-05 (1) — 1+ 1-
02012 BU 1,5 mm² — 24Vdc for TB-04-05 (2) — 2+ 2-
02013 RD 1,5 mm² — 24Vdc for TB-04-07 (1) — 1+ 1-
02014 BU 1,5 mm² — 24Vdc for TB-04-07 (2) — 2+ 2-
02015 RD 1,5 mm² — 24Vdc for TB-05-03 (1) — 1+ 1-
02016 BU 1,5 mm² — 24Vdc for TB-05-03 (2) — 2+ 2-
02017 RD 1,5 mm² — 24Vdc for TB-05-05 (1) — 1+ 1-
02018 BU 1,5 mm² — 24Vdc for TB-05-05 (2) — 2+ 2-
02019 RD 1,5 mm² — 24Vdc for TB-05-07 (1) — 1+ 1-
02020 BU 1,5 mm² — 24Vdc for TB-05-07 (2) — 2+ 2-
02021 RD 1,5 mm² — 24Vdc for TB-06-03 (1) — 1+ 1-
02022 BU 1,5 mm² — 24Vdc for TB-06-03 (2) — 2+ 2-
02023 RD 1,5 mm² — 24Vdc for TB-06-05 (1) — 1+ 1-
02024 BU 1,5 mm² — 24Vdc for TB-06-05 (2) — 2+ 2-
02025 RD 1,5 mm² — 24Vdc for TB-06-07 (1) — 1+ 1-
02026 BU 1,5 mm² — 24Vdc for TB-06-07 (2) — 2+ 2-
02027 RD 1,5 mm² — 24Vdc for TB-01-05 (1) — 3+ 4-
02028 BU 1,5 mm² — 24Vdc for TB-01-05 (2) — 5+ 6-
02029 RD 1,5 mm² — 24Vdc for TB-01-03 (1) — 3+ 4-
02030 BU 1,5 mm² — 24Vdc for TB-01-03 (2) — 5+ 6-
02031 RD 1,5 mm² — 24Vdc for TB-01-01 (1) — 3+ 4-
02032 BU 1,5 mm² — 24Vdc for TB-01-01 (2) — 5+ 6-
02033 RD 1,5 mm² — 24Vdc for TB-06-07 (1) — 1+ 1-
02034 BU 1,5 mm² — 24Vdc for TB-06-07 (2) — 2+ 3-
02035 RD 1,5 mm² — 24Vdc for TB-01-05 (1) — 4+ 5-
02036 BU 1,5 mm² — 24Vdc for TB-01-05 (2) — 6+ 3-
02037 RD 1,5 mm² — 24Vdc for TB-01-03 (1) — 4+ 5-
02038 BU 1,5 mm² — 24Vdc for TB-01-03 (2) — 6+ 3-
02039 RD 1,5 mm² — 24Vdc for TB-01-01 (1) — 4+ 5-
02040 BU 1,5 mm² — 24Vdc for TB-01-01 (2) — 6+

<1> <1> <1> <1>

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

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

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
24Vdc POWER DISTRIBUTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DG-00021
SHEET 020
REV. 1

FGS PANEL - FAULT ALARM SIGNALS TO DCS & "GDZ" SIGNALS POWER SUPPLY

70-XA-051 (012-G10)	02102 WH 1 mm²	09	09A	IN 21	SLOT 7	NODE 6
- (012-G10)	02101 BK 1 mm²		09B	IN 21	SLOT 7	NODE 6
			09C	IN 21	SLOT 7	NODE 6

70-XA-051 - <1>

70-XA-052 (015-C04)	02103 WH 1 mm²	10	10A	IN 22	SLOT 7	NODE 6
- (015-J04)	02104 BK 1 mm²		10B	IN 22	SLOT 7	NODE 6
			10C	IN 22	SLOT 7	NODE 6

70-XA-052 - <1>

70-XA-053 (017-J02)	02105 WH 1 mm²	11	11A	IN 23	SLOT 7	NODE 6
- (017-J02)	01710 BK 1 mm²		11B	IN 23	SLOT 7	NODE 6
			11C	IN 23	SLOT 7	NODE 6

70-XA-053 - <1>

70-XA-054 -	02106 WH 1 mm²	12	12A	IN 24	SLOT 7	NODE 6
THH_F SET: 40 °C (21 / 24) <1>	02107 BK 1 mm²		12B	IN 24	SLOT 7	NODE 6
			12C	IN 24	SLOT 7	NODE 6

70-XA-054 - <1>

CB_24Vdc_F

(015-B10) (019-A01) (020-A01) (020-K01) (020-K01) <1>

02108 RD 2,5 mm²
02109 BU 2,5 mm²

1	2	950-GDZ-01101-PS
3	4	950-GDZ-01102-PS
5	6	950-GDZ-01103-PS
7	8	950-GDZ-02117-PS
9	10	950-GDZ-02118-PS
11	12	950-GDZ-02119-PS
13	14	950-GDZ-02120-PS
15	16	950-GDZ-03101-PS

02110 RD 2,5 mm²
02111 BU 2,5 mm²

17	18	950-GDZ-03102-PS
19	20	950-GDZ-03103-PS
21	22	950-GDZ-03104-PS
23	24	950-GDZ-03105-PS
25	26	SPARE
27	28	SPARE
29	30	SPARE
31	32	SPARE

FGS001-UA005 AT_01_F <1> 03301 WH 1mm² 03302 BK 1mm² <1>

DETAIL TO BE IMPLEMENTED

13 A	IN 13	S.7	N.6
B	↓	S.7	N.6
C		S.7	N.6

70-XA-055

to A	SLOT 5	NODE 2
to B	SLOT 5	2
to C	5	2

FGS001-UA-05

CUSTOMER TAG	SIGNAL DESCRIPTION FROM IO LIST
70-XA-051	FGS PANEL VENTILATION FAN FAULT
70-XA-052	FGS PANEL POWER SUPPLY & DIODES FAILURE
70-XA-053	FGS PANEL CUMULATIVE BREAKER FAULT
70-XA-054	FGS PANEL HIGH TEMPERATURE ALARM
70-XA-055	FGS PANEL DIGITAL/TB CUMUL. FAULT /ANALOG

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - FAULT ALARM SIGNALS TO DCS & "GDZ" SIGNALS P.S.

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

SCALE : 1

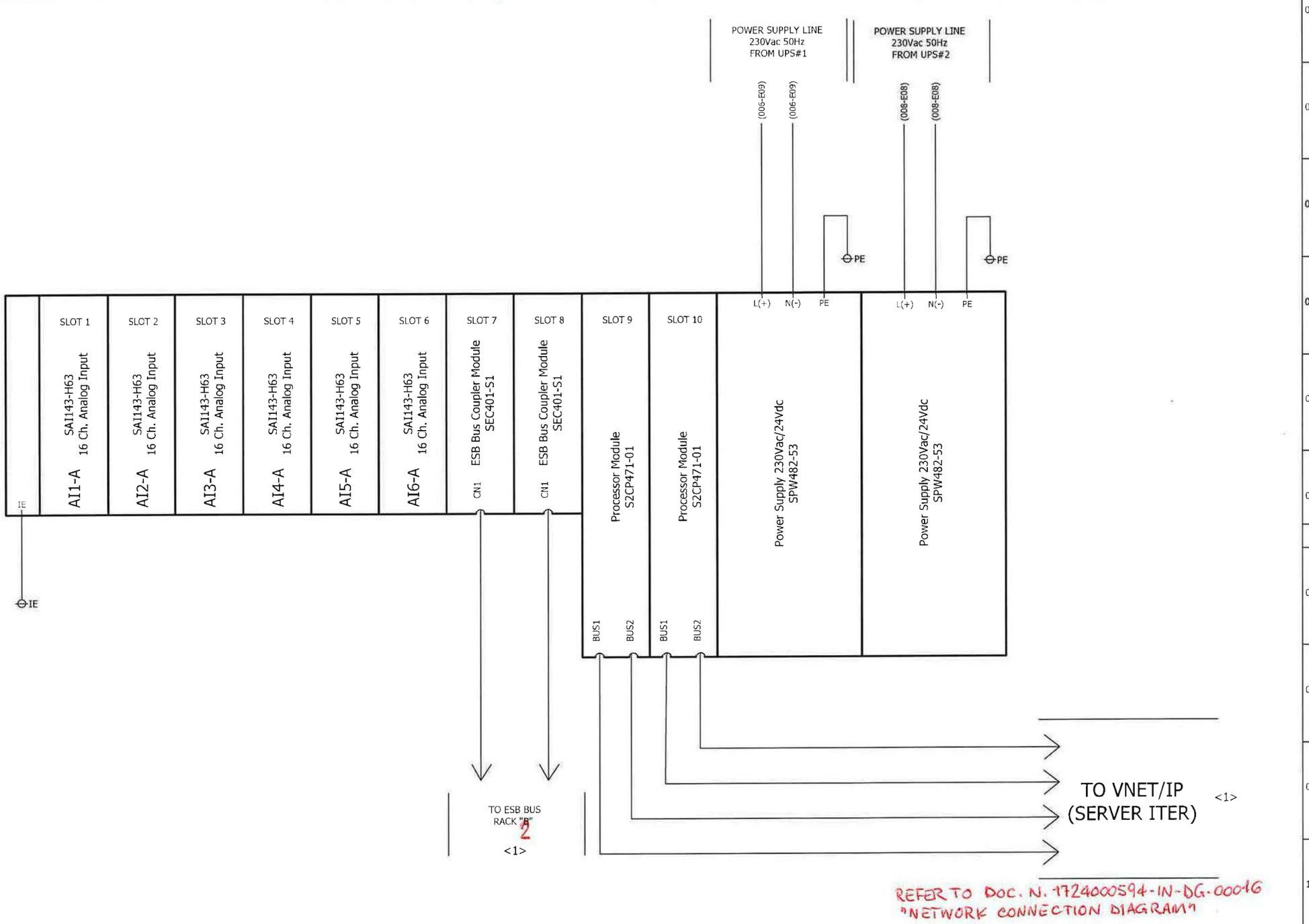
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 021

REV. 1

FGS PANEL - RACK "A" POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

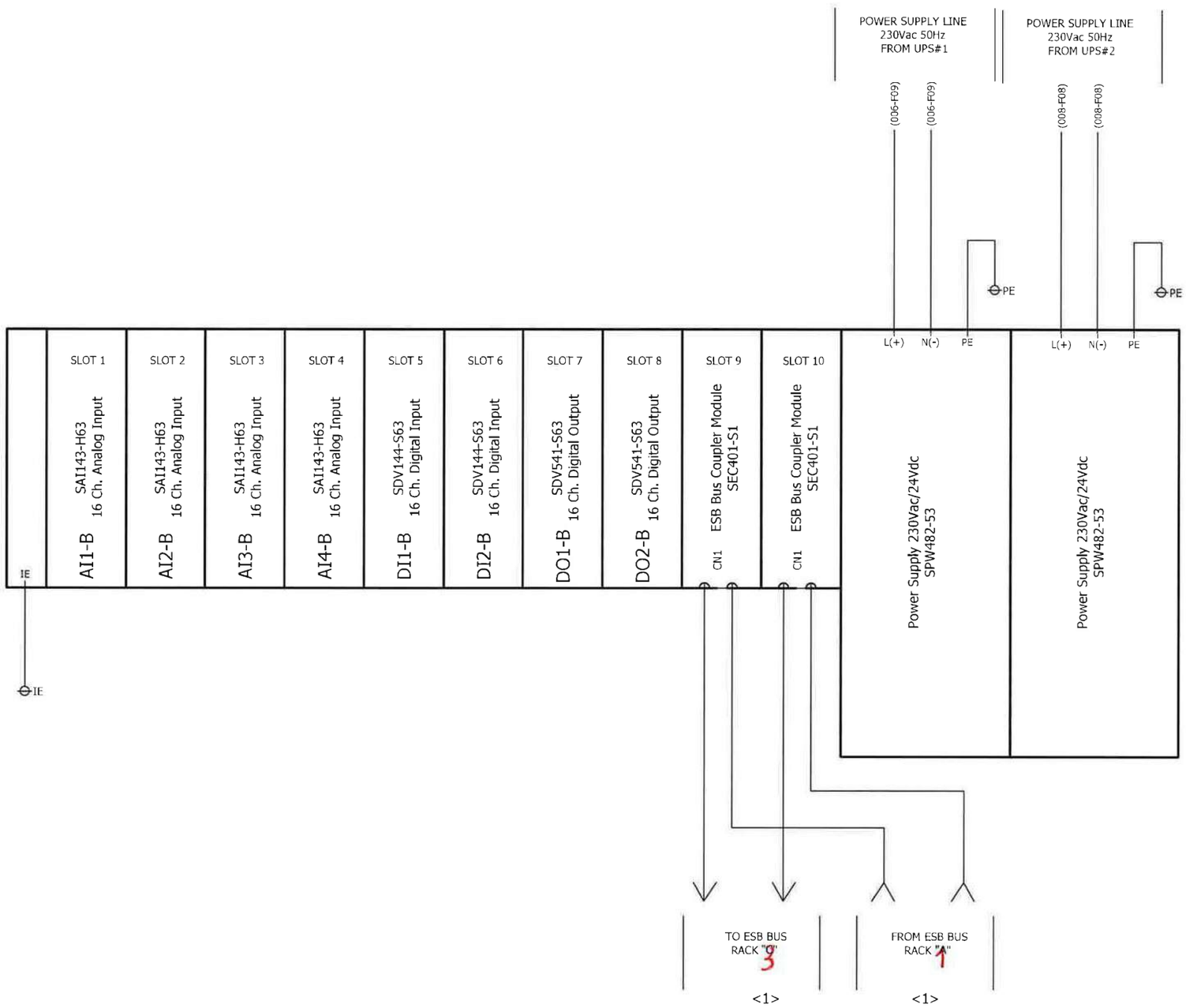
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 022

REV. 1

FGS PANEL - RACK "B" POWER DISTRIBUTION



1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

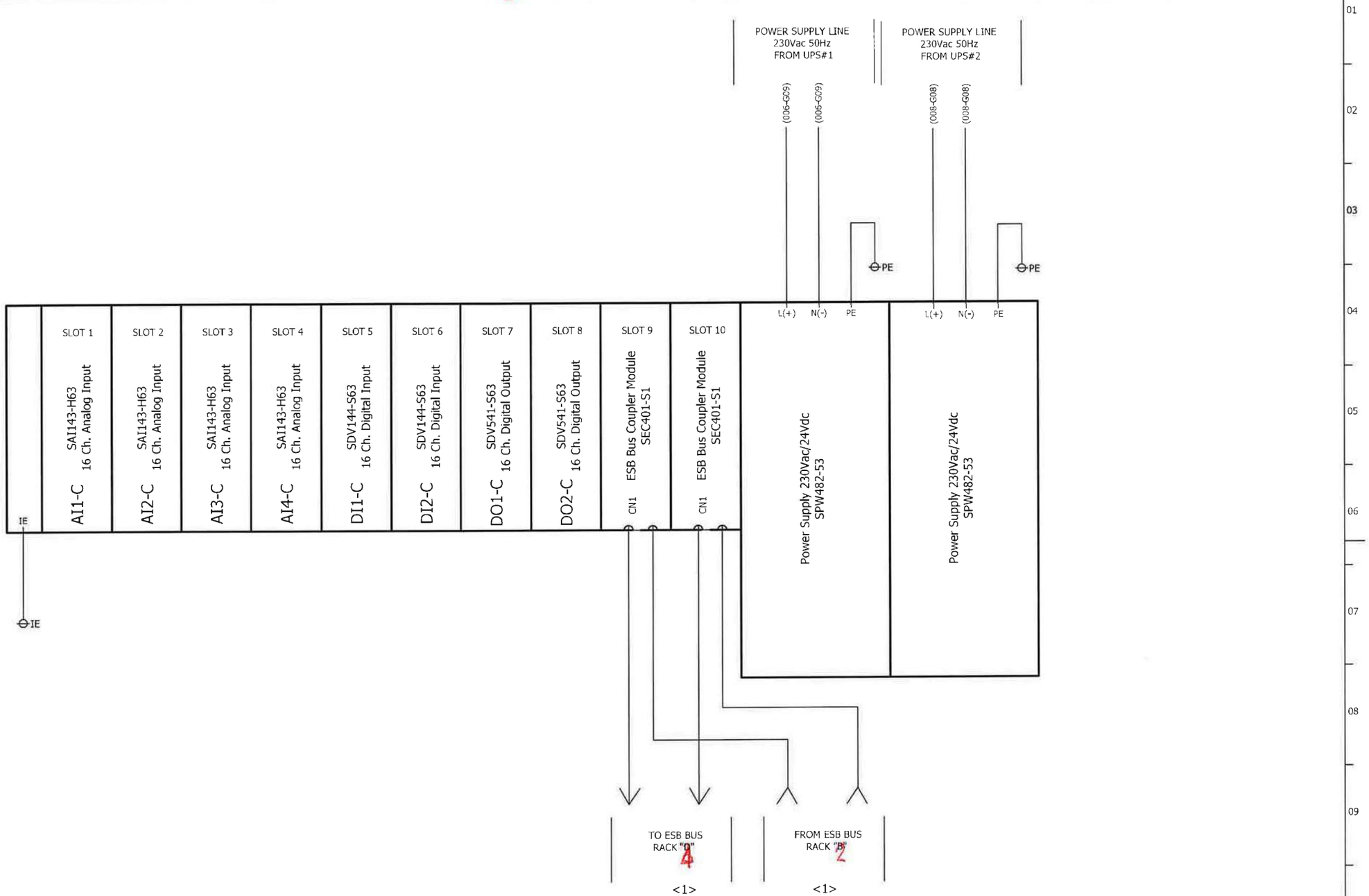
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 023

REV. 1

FGS PANEL - RACK "C" POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

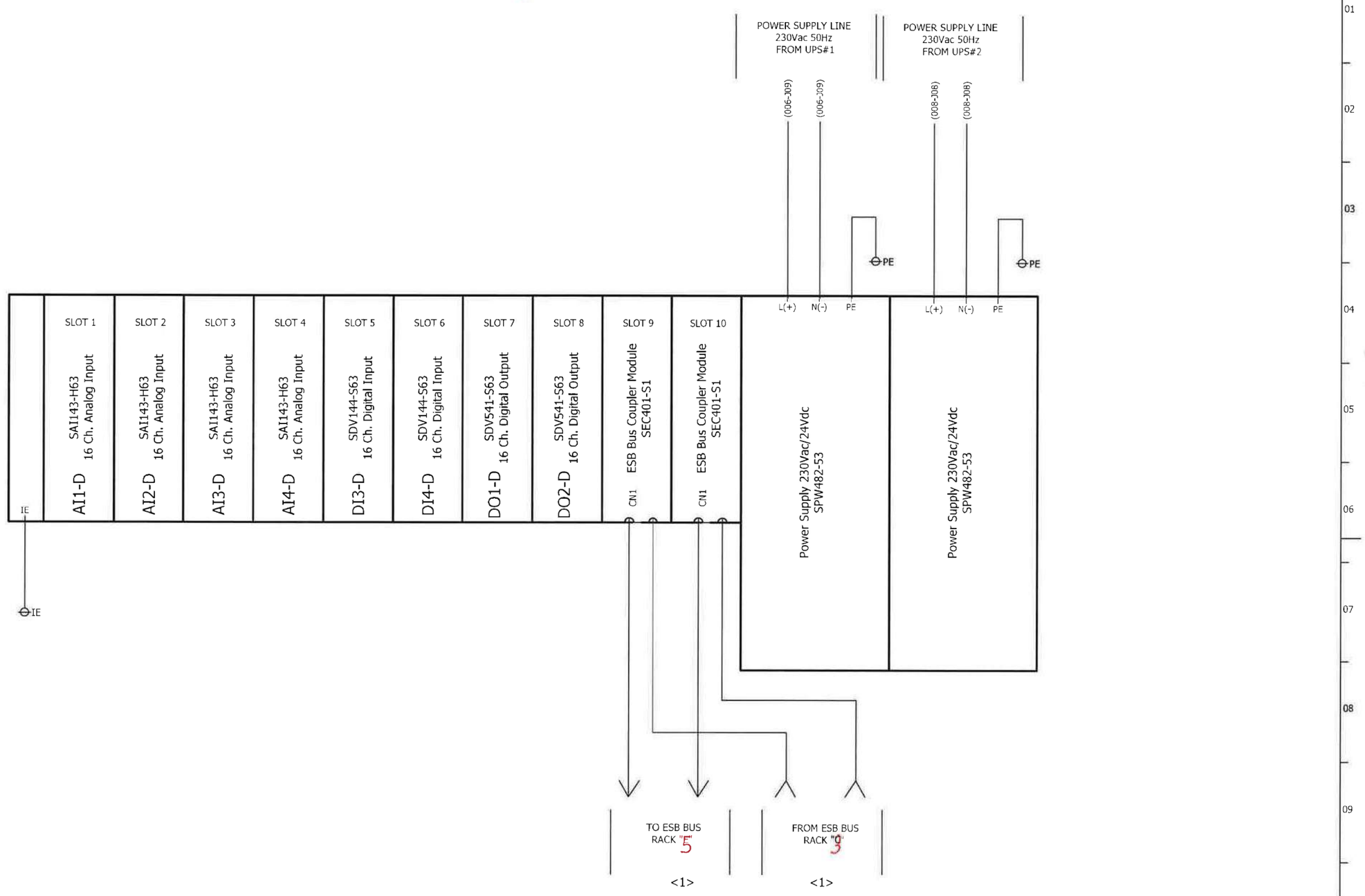
A3

DRAWING NO.
1724000594-IN-DG-00021

SHEET 024

REV. 1

FGS PANEL - RACK "4" POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

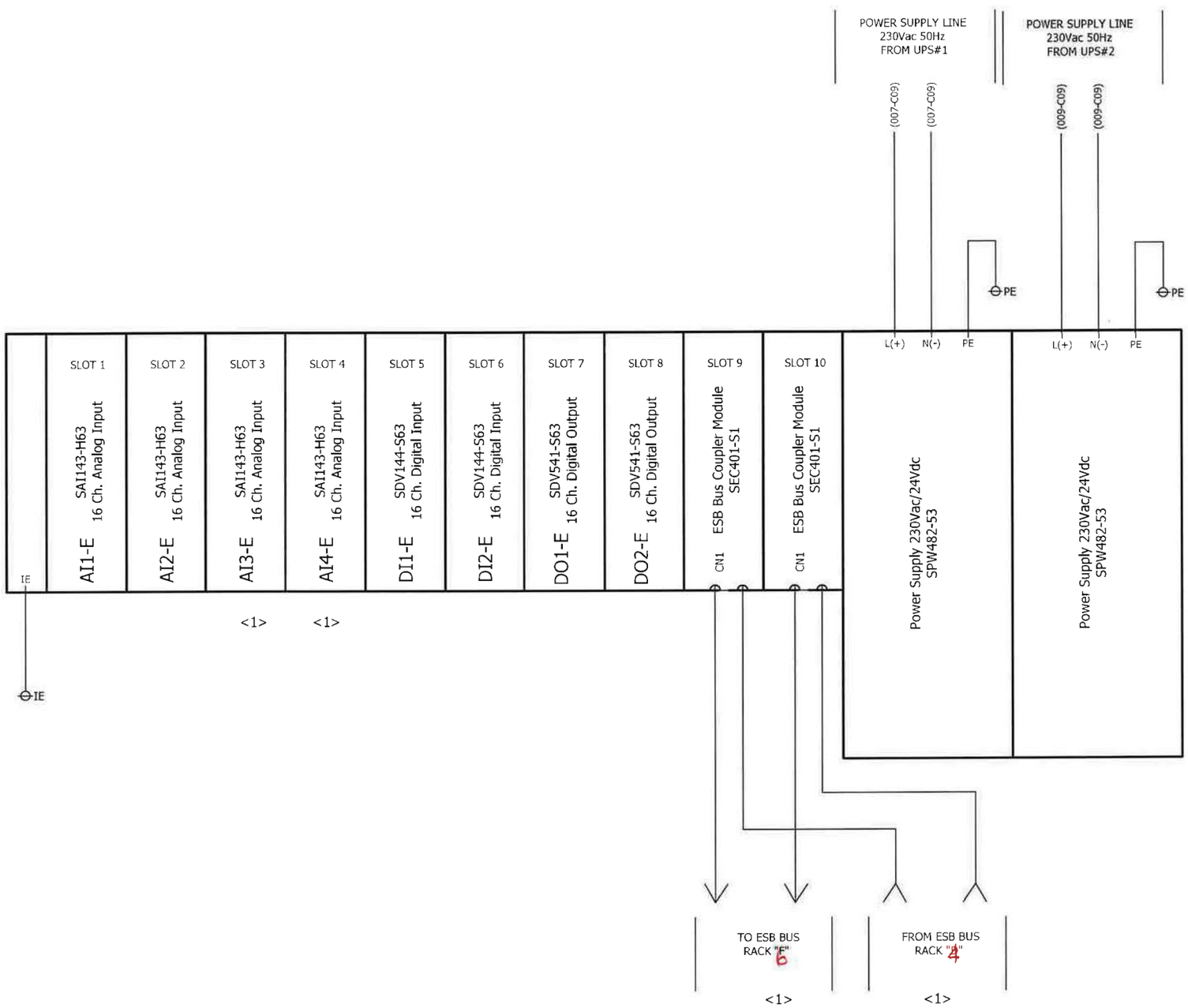
A3

DRAWING NO.
1724000594-IN-DG-00021

SHEET 025

REV. 1

FGS PANEL - RACK "E" POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - RACK "5" POWER DISTRIBUTION

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

SCALE : 1

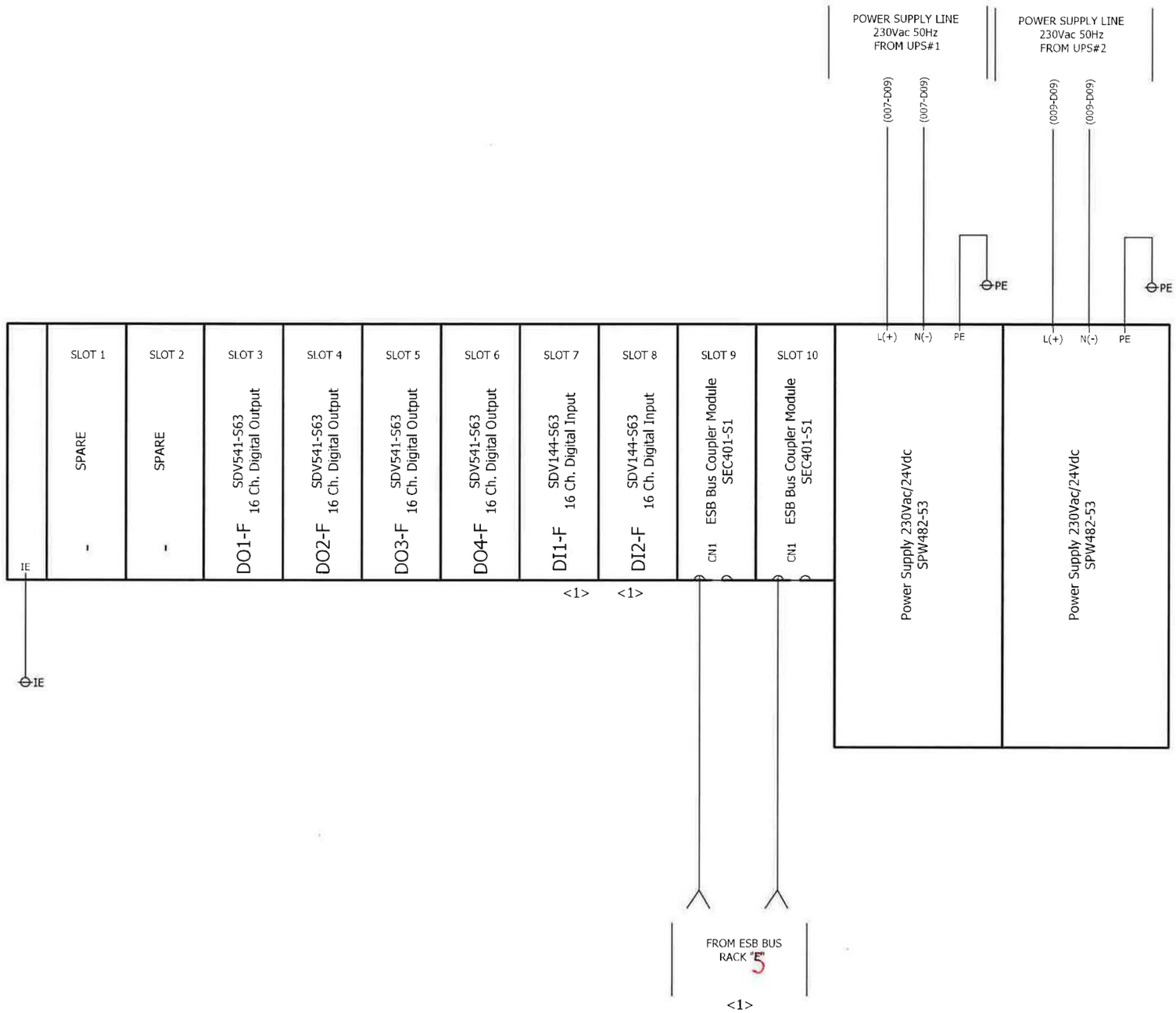
A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 026

REV. 1

FGS PANEL - RACK "6" POWER DISTRIBUTION



1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - RACK "6" POWER DISTRIBUTION

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

SCALE : 1

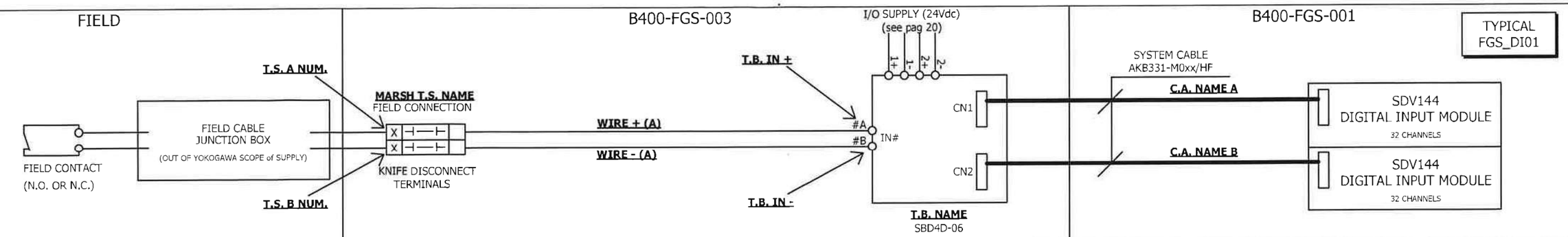
A3

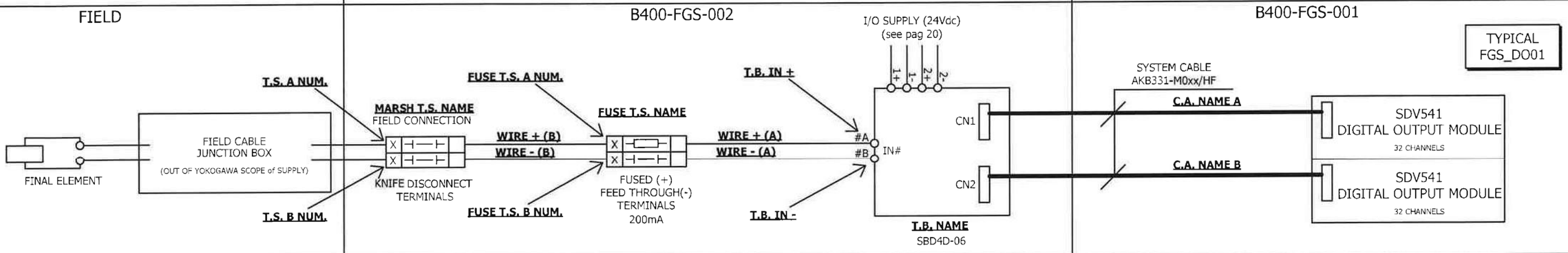
DRAWING NO. 1724000594-IN-DG-00021

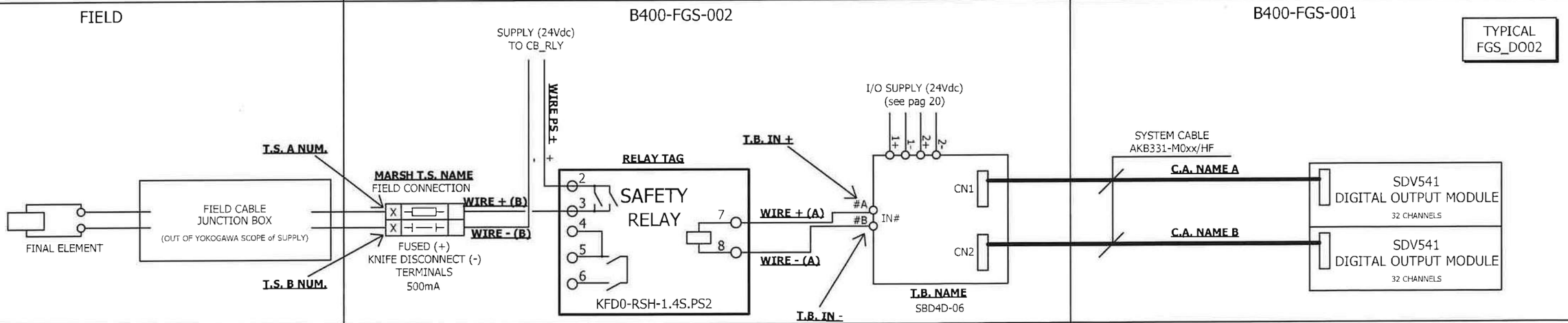
SHEET 027

REV. 1

FGS PANEL - TYPICAL WIRING DIGITAL INPUT/OUTPUT







REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00021

SHEET 028

REV. 1

FGS PANEL - TYPICAL WIRING ANALOG INPUT

FIELD

TX

TRANSMITTER 4-20mA
SINK TYPE

\+
\-

FIELD CABLE
JUNCTION BOX
(OUT OF YOKOGAWA SCOPE of SUPPLY)

T.S. A NUM.

T.S. B NUM.

B400-FGS-003

MARSH T.S. NAME
FIELD CONNECTION

KNIFE DISCONNECT
TERMINALS

WIRE + (A)

WIRE - (A)

T.B. IN +

T.B. IN -

BARRIER SWITCH CONFIG.			
S1	S2	S3	S4
OFF	OFF	ON	OFF

I/O SUPPLY (24Vdc)
(see page 20)

3+ 5+ 4- 6-

#1+
#5-
IN#

IS BARRIER
HiC2025

CN1
CN2

T.B. NAME
HiCTB16-YRS-RRB-KS-CC-AI16

B400-FGS-001

TYPICAL
FGS_AI02

SYSTEM CABLE
KS1-xx/HF

C.A. NAME A

C.A. NAME B

SAI143
ANALOG INPUT MODULE
16 CHANNELS

SAI143
ANALOG INPUT MODULE
16 CHANNELS

MODULE STRAPPING:
4-WIRE

FIELD

TX

TRANSMITTER 4-20mA
SOURCE TYPE

+24V
\+
\-

FIELD CABLE
JUNCTION BOX
(OUT OF YOKOGAWA SCOPE of SUPPLY)

T.S. A NUM.

T.S. B NUM.

T.S. C NUM.

B400-FGS-003

MARSH T.S. NAME
FIELD CONNECTION

FUSED (+)
KNIFE DISCONNECT (-)
TERMINALS
200mA

I/O SUPPLY (24Vdc)

WIRE PS +

to NEXT
CHANNEL

WIRE + (A)

WIRE - (A)

#A
#B
IN#

CN1
CN2

T.B. NAME
SBA4D-06

B400-FGS-001

TYPICAL
FGS_AI01

SYSTEM CABLE
KS1-xx/HF

C.A. NAME A

C.A. NAME B

SAI143
ANALOG INPUT MODULE
16 CHANNELS

SAI143
ANALOG INPUT MODULE
16 CHANNELS

MODULE STRAPPING:
4-WIRE

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - TYPICAL WIRING ANALOG INPUT

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 029

REV. 1

SHEET LEFT INTENTIONALLY BLANK

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 030

REV. 1

FGS PANEL - TB-950-JE-01103 + TB-950-JE-03103 + TB-950-JE-04102 + TB-950-JE-05102 + TB-950-JE-06102

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-MFA-01101	DI	TB-950-JE-01103	01	02	03101	03102	1mm²	BK	WH	TB-02-05	01A	01B	02	05	01	CA_02_05	CA_02_06	FGS_DI01
950-MFA-01102	DI	TB-950-JE-01103	03	04	03103	03104	1mm²	BK	WH	TB-02-05	02A	02B	02	05	02	CA_02_05	CA_02_06	FGS_DI01
950-MFA-01103	DI	TB-950-JE-01103	05	06	03105	03106	1mm²	BK	WH	TB-02-05	03A	03B	02	05	03	CA_02_05	CA_02_06	FGS_DI01
950-MFA-03101	DI	TB-950-JE-03103	01	02	03107	03108	1mm²	BK	WH	TB-02-05	04A	04B	02	05	04	CA_02_05	CA_02_06	FGS_DI01
950-MFA-03102	DI	TB-950-JE-03103	03	04	03109	03110	1mm²	BK	WH	TB-02-05	05A	05B	02	05	05	CA_02_05	CA_02_06	FGS_DI01
950-MFA-03103	DI	TB-950-JE-03103	05	06	03111	03112	1mm²	BK	WH	TB-02-05	06A	06B	02	05	06	CA_02_05	CA_02_06	FGS_DI01
950-MFA-03104	DI	TB-950-JE-03103	07	08	03113	03114	1mm²	BK	WH	TB-02-05	07A	07B	02	05	07	CA_02_05	CA_02_06	FGS_DI01
WS0110020508	DI	TB-950-JE-03103	09	10	03115	03116	1mm²	BK	WH	TB-02-05	08A	08B	02	05	08	CA_02_05	CA_02_06	FGS_DI01
WS0110020509	DI	TB-950-JE-03103	11	12	03117	03118	1mm²	BK	WH	TB-02-05	09A	09B	02	05	09	CA_02_05	CA_02_06	FGS_DI01
950-MFA-04101	DI	TB-950-JE-04102	01	02	03119	03120	1mm²	BK	WH	TB-03-05	01A	01B	03	05	01	CA_03_05	CA_03_06	FGS_DI01
950-MFA-04102	DI	TB-950-JE-04102	03	04	03121	03122	1mm²	BK	WH	TB-03-05	02A	02B	03	05	02	CA_03_05	CA_03_06	FGS_DI01
950-MFA-05101	DI	TB-950-JE-05102	01	02	03123	03124	1mm²	BK	WH	TB-03-05	03A	03B	03	05	03	CA_03_05	CA_03_06	FGS_DI01
950-MFA-05102	DI	TB-950-JE-05102	03	04	03125	03126	1mm²	BK	WH	TB-03-05	04A	04B	03	05	04	CA_03_05	CA_03_06	FGS_DI01
950-MFA-05103	DI	TB-950-JE-05102	05	06	03127	03128	1mm²	BK	WH	TB-03-05	05A	05B	03	05	05	CA_03_05	CA_03_06	FGS_DI01
950-MFA-05104	DI	TB-950-JE-05102	07	08	03129	03130	1mm²	BK	WH	TB-03-05	06A	06B	03	05	06	CA_03_05	CA_03_06	FGS_DI01
950-MFA-06101	DI	TB-950-JE-06102	01	02	03131	03132	1mm²	BK	WH	TB-03-05	07A	07B	03	05	07	CA_03_05	CA_03_06	FGS_DI01
950-MFA-06102	DI	TB-950-JE-06102	03	04	03133	03134	1mm²	BK	WH	TB-03-05	08A	08B	03	05	08	CA_03_05	CA_03_06	FGS_DI01
WS0110030509	DI	TB-950-JE-06102	05	06	03135	03136	1mm²	BK	WH	TB-03-05	09A	09B	03	05	09	CA_03_05	CA_03_06	FGS_DI01
WS0110030510	DI	TB-950-JE-06102	07	08	03137	03138	1mm²	BK	WH	TB-03-05	10A	10B	03	05	10	CA_03_05	CA_03_06	FGS_DI01

GENERAL COMMENT: INSERT ALL SPARE TERMINALS FOR NON-WIRED SPARES

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 031

REV. 1

FGS PANEL - TB-B400-FGS-002-1 + TB-B100-HSB-001 + TB-B200-HSB-001 + TB-B300-HSB-001 + TB-B400-HSB-001

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-MFA-02101	DI	TB-B400-FGS-002-1	01	02	03201	03202	1mm²	BK	WH	TB-04-05	01A	01B	04	05	01	CA_04_05	CA_04_06	FGS_DI01
950-MFA-04201	DI	TB-B400-FGS-002-1	03	04	03203	03204	1mm²	BK	WH	TB-04-05	02A	02B	04	05	02	CA_04_05	CA_04_06	FGS_DI01
950-MFA-04202	DI	TB-B400-FGS-002-1	05	06	03205	03206	1mm²	BK	WH	TB-04-05	03A	03B	04	05	03	CA_04_05	CA_04_06	FGS_DI01
950-MFA-04203	DI	TB-B400-FGS-002-1	07	08	03207	03208	1mm²	BK	WH	TB-04-05	04A	04B	04	05	04	CA_04_05	CA_04_06	FGS_DI01
950-MFA-05201	DI	TB-B400-FGS-002-1	09	10	03209	03210	1mm²	BK	WH	TB-04-05	05A	05B	04	05	05	CA_04_05	CA_04_06	FGS_DI01
950-MFA-06201	DI	TB-B400-FGS-002-1	11	12	03211	03212	1mm²	BK	WH	TB-04-05	06A	06B	04	05	06	CA_04_05	CA_04_06	FGS_DI01
950-MFA-07101	DI	TB-B400-FGS-002-1	13	14	03213	03214	1mm²	BK	WH	TB-04-05	07A	07B	04	05	07	CA_04_05	CA_04_06	FGS_DI01
77-ZSL-001	DI	TB-B100-HSB-001	01	02	03215	03216	1mm²	BK	WH	TB-05-03	01A	01B	05	03	01	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-002	DI	TB-B100-HSB-001	03	04	03217	03218	1mm²	BK	WH	TB-05-03	02A	02B	05	03	02	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-003	DI	TB-B100-HSB-001	05	06	03219	03220	1mm²	BK	WH	TB-05-03	03A	03B	05	03	03	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-004	DI	TB-B200-HSB-001	01	02	03221	03222	1mm²	BK	WH	TB-05-03	04A	04B	05	03	04	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-005	DI	TB-B200-HSB-001	03	04	03223	03224	1mm²	BK	WH	TB-05-03	05A	05B	05	03	05	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-006	DI	TB-B200-HSB-001	05	06	03225	03226	1mm²	BK	WH	TB-05-03	06A	06B	05	03	06	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-007	DI	TB-B300-HSB-001	01	02	03227	03228	1mm²	BK	WH	TB-05-03	07A	07B	05	03	07	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-008	DI	TB-B300-HSB-001	03	04	03229	03230	1mm²	BK	WH	TB-05-03	08A	08B	05	03	08	CA_05_03	CA_05_04	FGS_DI01
77-ZSL-009	DI	TB-B300-HSB-001	05	06	03231	03232	1mm²	BK	WH	TB-06-07	01A	01B	06	07	01	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-010	DI	TB-B300-HSB-001	07	08	03233	03234	1mm²	BK	WH	TB-06-07	02A	02B	06	07	02	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-011	DI	TB-B300-HSB-001	09	10	03235	03236	1mm²	BK	WH	TB-06-07	03A	03B	06	07	03	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-012	DI	TB-B400-HSB-001	01	02	03237	03238	1mm²	BK	WH	TB-06-07	04A	04B	06	07	04	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-013	DI	TB-B400-HSB-001	03	04	03239	03240	1mm²	BK	WH	TB-06-07	05A	05B	06	07	05	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-014	DI	TB-B400-HSB-001	05	06	03241	03242	1mm²	BK	WH	TB-06-07	06A	06B	06	07	06	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-015	DI	TB-B400-HSB-001	07	08	03243	03244	1mm²	BK	WH	TB-06-07	07A	07B	06	07	07	CA_06_07	CA_06_08	FGS_DI01
77-ZSL-016	DI	TB-B400-HSB-001	09	10	03245	03246	1mm²	BK	WH	TB-06-07	08A	08B	06	07	08	CA_06_07	CA_06_08	FGS_DI01

FOR SIGNALS: 70-XA-051 - 70-XA-052 - 70-XA-053 - 70-XA-054 SEE PAG 021

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 032

REV. 1

FGS PANEL - AT02 + TB-P320PLC + TB-20-UCP-001 + TB-80-UCP-001 + TB-50-LP-002

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
FGS001-UA-05	DI	~~AT02~~	~~01~~	~~02~~	03301	03302	1mm²	BK	WH	TB-02-05	10A	10B	02	05	10	CA_02_05	CA_02_06	FGS_DI01
85-XA-001	DI	TB-P320PLC	01	02	03303	03304	1mm²	BK	WH	TB-05-05	01A	01B	05	05	01	CA_05_05	CA_05_06	FGS_DI01
85-XA-002	DI	TB-P320PLC	03	04	03305	03306	1mm²	BK	WH	TB-05-05	02A	02B	05	05	02	CA_05_05	CA_05_06	FGS_DI01
20-XA-001	DI	TB-20-UCP-001	01	02	03307	03308	1mm²	BK	WH	TB-05-05	03A	03B	05	05	03	CA_05_05	CA_05_06	FGS_DI01
20-XA-002	DI	TB-20-UCP-001	03	04	03309	03310	1mm²	BK	WH	TB-05-05	04A	04B	05	05	04	CA_05_05	CA_05_06	FGS_DI01
80-XA-001	DI	TB-80-UCP-001	01	02	03311	03312	1mm²	BK	WH	TB-05-05	05A	05B	05	05	05	CA_05_05	CA_05_06	FGS_DI01
80-XA-002	DI	TB-80-UCP-001	03	04	03313	03314	1mm²	BK	WH	TB-05-05	06A	06B	05	05	06	CA_05_05	CA_05_06	FGS_DI01
50-XA-001	DI	TB-50-LP-002	01	02	03315	03316	1mm²	BK	WH	TB-05-05	07A	07B	05	05	07	CA_05_05	CA_05_06	FGS_DI01
50-XA-002	DI	TB-50-LP-002	03	04	03317	03318	1mm²	BK	WH	TB-05-05	08A	08B	05	05	08	CA_05_05	CA_05_06	FGS_DI01

INSERT SPARE TERMINALS

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 033

REV. 1

SHEET LEFT INTENTIONALLY BLANK

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 034

REV. 1

FGS PANEL - TB-950-JE-01104 + TB-950-JE-02104 + TB-950-JE-03104 + TB-950-JE-04103

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE + (B)	WIRE - (B)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A+B)	WIRE COLOUR - (A+B)	WIRE PS	FUSE T.S. NAME	FUSE T.S. A NUM.	FUSE T.S. B NUM.	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	RELAY TAG	TYPICAL
950-XZ-01101	DO	TB-950-JE-01104	01	02	03501	03502	03503	03504	N/A	1mm²	BK	WH	N/A	TS_02_07	1	2	TB-02-07	01A	01B	02	07	01	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-01102	DO	TB-950-JE-01104	03	04	03505	03506	03507	03508	N/A	1mm²	BK	WH	N/A	TS_02_07	3	4	TB-02-07	02A	02B	02	07	02	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-01101	DO	TB-950-JE-01104	05	06	03509	03510	03511	03512	N/A	1mm²	BK	WH	N/A	TS_02_07	5	6	TB-02-07	03A	03B	02	07	03	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-01102	DO	TB-950-JE-01104	07	08	03513	03514	03515	03516	N/A	1mm²	BK	WH	N/A	TS_02_07	7	8	TB-02-07	04A	04B	02	07	04	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-02101	DO	TB-950-JE-02104	01	02	03517	03518	03519	03520	N/A	1mm²	BK	WH	N/A	TS_02_07	9	10	TB-02-07	05A	05B	02	07	05	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-02101	DO	TB-950-JE-02104	03	04	03521	03522	03523	03524	N/A	1mm²	BK	WH	N/A	TS_02_07	11	12	TB-02-07	06A	06B	02	07	06	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-02102	DO	TB-950-JE-02104	05	06	03525	03526	03527	03528	N/A	1mm²	BK	WH	N/A	TS_02_07	13	14	TB-02-07	07A	07B	02	07	07	CA_02_07	CA_02_08	-	FGS_DO01
WS01700020714	DO	TB-950-JE-02104	07	08	03529	03530	03531	03532	N/A	1mm²	BK	WH	N/A	TS_02_07	15	16	TB-02-07	14A	14B	02	07	14	CA_02_07	CA_02_08	-	FGS_DO01
WS01700020715	DO	TB-950-JE-02104	09	10	03533	03534	03535	03536	N/A	1mm²	BK	WH	N/A	TS_02_07	17	18	TB-02-07	15A	15B	02	07	15	CA_02_07	CA_02_08	-	FGS_DO01
WS01700020716	DO	TB-950-JE-02104	11	12	03537	03538	03539	03540	N/A	1mm²	BK	WH	N/A	TS_02_07	19	20	TB-02-07	16A	16B	02	07	16	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-03101	DO	TB-950-JE-03104	01	02	03541	03542	03543	03544	N/A	1mm²	BK	WH	N/A	TS_02_07	21	22	TB-02-07	08A	08B	02	07	08	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-03102	DO	TB-950-JE-03104	03	04	03545	03546	03547	03548	N/A	1mm²	BK	WH	N/A	TS_02_07	23	24	TB-02-07	09A	09B	02	07	09	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-03101	DO	TB-950-JE-03104	05	06	03549	03550	03551	03552	N/A	1mm²	BK	WH	N/A	TS_02_07	25	26	TB-02-07	10A	10B	02	07	10	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-03102	DO	TB-950-JE-03104	07	08	03553	03554	03555	03556	N/A	1mm²	BK	WH	N/A	TS_02_07	27	28	TB-02-07	11A	11B	02	07	11	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-03103	DO	TB-950-JE-03104	09	10	03557	03558	03559	03560	N/A	1mm²	BK	WH	N/A	TS_02_07	29	30	TB-02-07	12A	12B	02	07	12	CA_02_07	CA_02_08	-	FGS_DO01
950-XL-03104	DO	TB-950-JE-03104	11	12	03561	03562	03563	03564	N/A	1mm²	BK	WH	N/A	TS_02_07	31	32	TB-02-07	13A	13B	02	07	13	CA_02_07	CA_02_08	-	FGS_DO01
950-XZ-04101	DO	TB-950-JE-04103	01	02	03565	03566	03567	03568	N/A	1mm²	BK	WH	N/A	TS_03_07	1	2	TB-03-07	01A	01B	03	07	01	CA_03_07	CA_03_08	-	FGS_DO01
950-XZ-04102	DO	TB-950-JE-04103	03	04	03569	03570	03571	03572	N/A	1mm²	BK	WH	N/A	TS_03_07	3	4	TB-03-07	02A	02B	03	07	02	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04101	DO	TB-950-JE-04103	05	06	03573	03574	03575	03576	N/A	1mm²	BK	WH	N/A	TS_03_07	5	6	TB-03-07	03A	03B	03	07	03	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04102	DO	TB-950-JE-04103	07	08	03577	03578	03579	03580	N/A	1mm²	BK	WH	N/A	TS_03_07	7	8	TB-03-07	04A	04B	03	07	04	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04103	DO	TB-950-JE-04103	09	10	03581	03582	03583	03584	N/A	1mm²	BK	WH	N/A	TS_03_07	9	10	TB-03-07	05A	05B	03	07	05	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04104	DO	TB-950-JE-04103	11	12	03585	03586	03587	03588	N/A	1mm²	BK	WH	N/A	TS_03_07	11	12	TB-03-07	06A	06B	03	07	06	CA_03_07	CA_03_08	-	FGS_DO01

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL OUTPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 035

REV. 1

A B C D E F G H J K

FGS PANEL - TB-950-JE-04203 + TB-950-JE-04207 + TB-950-JE-05103

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE + (B)	WIRE - (B)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A+B)	WIRE COLOUR - (A+B)	WIRE PS COLOUR	FUSE T.S. NAME	FUSE T.S. A NUM.	FUSE T.S. B NUM.	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	RELAY TAG	TYPICAL
950-XZ-04203	DO	TB-950-JE-04203	01	02	03601	03602	03603	03604	N/A	1mm²	BK	WH	N/A	TS_03_07	13	14	TB-03-07	07A	07B	03	07	07	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04205	DO	TB-950-JE-04203	03	04	03605	03606	03607	03608	N/A	1mm²	BK	WH	N/A	TS_03_07	15	16	TB-03-07	08A	08B	03	07	08	CA_03_07	CA_03_08	-	FGS_DO01
950-XL-04206	DO	TB-950-JE-04203	05	06	03609	03610	03611	03612	N/A	1mm²	BK	WH	N/A	TS_03_07	17	18	TB-03-07	09A	09B	03	07	09	CA_04_07	CA_04_08	-	FGS_DO01
77-HY-004	DO	TB-950-JE-04203	07	08	03613	03614	03615	03616	03617	1mm²	BK	WH	RD	N/A			TB-03-07	11A	11B	03	07	11	CA_04_07	CA_04_08	KA2	FGS_DO02
77-HY-005	DO	TB-950-JE-04203	09	10	03618	03619	03620	03621	03622	1mm²	BK	WH	RD	N/A			TB-04-07	04A	04B	04	07	04	CA_04_07	CA_04_08	KA3	FGS_DO02
77-HY-006	DO	TB-950-JE-04203	11	12	03623	03624	03625	03626	03627	1mm²	BK	WH	RD	N/A			TB-04-07	05A	05B	04	07	05	CA_04_07	CA_04_08	KA4	FGS_DO02
950-XZ-04202	DO	TB-950-JE-04207	1	2	03628	03629	03630	03631	N/A	1mm²	BK	WH	N/A	TS_04_07	19	20	TB-04-07	01A	01B	04	07	01	CA_04_07	CA_04_08	-	FGS_DO01
950-XL-04203	DO	TB-950-JE-04207	3	4	03631	03632	03633	03634	N/A	1mm²	BK	WH	N/A	TS_04_07	21	22	TB-04-07	02A	02B	04	07	02	CA_04_07	CA_04_08	-	FGS_DO01
950-XL-04204	DO	TB-950-JE-04207	5	6	03634	03635	03636	03637	N/A	1mm²	BK	WH	N/A	TS_04_07	23	24	TB-04-07	03A	03B	04	07	03	CA_04_07	CA_04_08	-	FGS_DO01
77-HY-007	DO	TB-950-JE-04207	7	8	03638	03639	03640	03641	03642	1mm²	BK	WH	RD	N/A			TB-06-03	07A	07B	06	03	07	CA_06_05	CA_06_06	KA7	FGS_DO02
77-HY-008	DO	TB-950-JE-04207	9	10	03643	03644	03645	03646	03647	1mm²	BK	WH	RD	N/A			TB-06-03	08A	08B	06	03	08	CA_06_05	CA_06_06	KA8	FGS_DO02
77-HY-009	DO	TB-950-JE-04207	11	12	03648	03649	03650	03651	03652	1mm²	BK	WH	RD	N/A			TB-06-05	01A	01B	06	05	01	CA_06_05	CA_06_06	KA9	FGS_DO02
77-HY-010	DO	TB-950-JE-04207	13	14	03653	03654	03655	03656	03657	1mm²	BK	WH	RD	N/A			TB-06-05	02A	02B	06	05	02	CA_06_05	CA_06_06	KA10	FGS_DO02
77-HY-011	DO	TB-950-JE-04207	15	16	03658	03659	03660	03661	03662	1mm²	BK	WH	RD	N/A			TB-06-05	03A	03B	06	05	03	CA_06_05	CA_06_06	KA11	FGS_DO02
WS01_0060509	DO	TB-950-JE-04207	17	18	03663	03664	03665	03666	03667	1mm²	BK	WH	RD	N/A			TB-06-05	09A	09B	06	05	09	CA_06_05	CA_06_06	KA17	FGS_DO02
WS01_0060510	DO	TB-950-JE-04207	19	20	03668	03669	03670	03671	03672	1mm²	BK	WH	RD	N/A			TB-06-05	10A	10B	06	05	10	CA_06_05	CA_06_06	KA18	FGS_DO02
WS01_0030712	DO	TB-950-JE-04207	21	22	03673	03674	03675	03676	03677	1mm²	BK	WH	RD	N/A			TB-03-07	12A	12B	03	07	12	CA_04_07	CA_04_08	KA19	FGS_DO02
WS01_0030713	DO	TB-950-JE-04207	23	24	03678	03679	03680	03681	03682	1mm²	BK	WH	RD	N/A			TB-03-07	13A	13B	03	07	13	CA_04_07	CA_04_08	KA20	FGS_DO02
950-XZ-05101	DO	TB-950-JE-05103	01	02	03683	03684	03685	03686	N/A	1mm²	BK	WH	N/A	TS_04_07	1	2	TB-04-07	06A	06B	04	07	06	CA_04_07	CA_04_08		FGS_DO01
950-XZ-05102	DO	TB-950-JE-05103	03	04	03687	03688	03689	03690	N/A	1mm²	BK	WH	N/A	TS_04_07	3	4	TB-04-07	07A	07B	04	07	07	CA_04_07	CA_04_08		FGS_DO01
950-XZ-05103	DO	TB-950-JE-05103	05	06	03691	03692	03693	03694	N/A	1mm²	BK	WH	N/A	TS_04_07	5	6	TB-04-07	08A	08B	04	07	08	CA_04_07	CA_04_08		FGS_DO01
950-XZ-05104	DO	TB-950-JE-05103	07	08	03695	03696	03697	03698	N/A	1mm²	BK	WH	N/A	TS_04_07	7	8	TB-04-07	09A	09B	04	07	09	CA_04_07	CA_04_08	-	FGS_DO01

INSERT SPARE TERMINALS

01 02 03 04 05 06 07 08 09 10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL OUTPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 036

REV. 1

A | B | C | D | E | F | G | H | J | K

FGS PANEL - TB-950-JE-05104 + TB-950-JE-06103 + TB-950-JE-06203 + TB-950-JE-07101

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	WIRE + (A)	WIRE - (A)	WIRE + (B)	WIRE - (B)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A+B)	WIRE COLOUR - (A+B)	WIRE PS COLOUR	FUSE T.S. NAME	FUSE T.S. A NUM.	FUSE T.S. B NUM.	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	RELAY TAG	TYPICAL
950-XZ-05201	DO	TB-950-JE-05104	01	02	03701	03702	03703	03704	N/A	1mm²	BK	WH	N/A	TS_04_07	9	10	TB-04-07	10A	10B	04	07	10	CA_04_07	CA_04_08	-	FGS_DO01
950-XL-05201	DO	TB-950-JE-05104	03	04	03705	03706	03707	03708	N/A	1mm²	BK	WH	N/A	TS_04_07	11	12	TB-04-07	11A	11B	04	07	11	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-05202	DO	TB-950-JE-05104	05	06	03709	03710	03711	03712	N/A	1mm²	BK	WH	N/A	TS_04_07	13	14	TB-04-07	12A	12B	04	07	12	CA_05_07	CA_05_08	-	FGS_DO01
WS01[illegible]0040713	DO	TB-950-JE-05104	07	08	03713	03714	03715	03716	N/A	1mm²	BK	WH	N/A	TS_04_07	15	16	TB-04-07	13A	13B	04	07	13	CA_05_07	CA_05_08	-	FGS_DO01
WS01[illegible]0040714	DO	TB-950-JE-05104	09	10	03717	03718	03719	03720	N/A	1mm²	BK	WH	N/A	TS_04_07	17	18	TB-04-07	14A	14B	04	07	14	CA_05_07	CA_05_08	-	FGS_DO01
950-XZ-06101	DO	TB-950-JE-06103	01	02	03721	03722	03723	03724	N/A	1mm²	BK	WH	N/A	TS_05_07	1	2	TB-05-07	01A	01B	05	07	01	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-06101	DO	TB-950-JE-06103	03	04	03725	03726	03727	03728	N/A	1mm²	BK	WH	N/A	TS_05_07	3	4	TB-05-07	02A	02B	05	07	02	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-06102	DO	TB-950-JE-06103	05	06	03729	03730	03731	03732	N/A	1mm²	BK	WH	N/A	TS_05_07	5	6	TB-05-07	03A	03B	05	07	03	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-06103	DO	TB-950-JE-06103	07	08	03733	03734	03735	03736	N/A	1mm²	BK	WH	N/A	TS_05_07	7	8	TB-05-07	04A	04B	05	07	04	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-06104	DO	TB-950-JE-06103	09	10	03737	03738	03739	03740	N/A	1mm²	BK	WH	N/A	TS_05_07	9	10	TB-05-07	05A	05B	05	07	05	CA_06_05	CA_06_06	-	FGS_DO01
WS01[illegible]0050711	DO	TB-950-JE-06103	11	12	03741	03742	03743	03744	N/A	1mm²	BK	WH	N/A	TS_05_07	11	12	TB-05-07	11A	11B	05	07	11	CA_06_05	CA_06_06	-	FGS_DO01
950-XZ-06201	DO	TB-950-JE-06203	01	02	03745	03746	03747	03748	N/A	1mm²	BK	WH	N/A	TS_05_07	13	14	TB-05-07	06A	06B	05	07	06	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-06201	DO	TB-950-JE-06203	03	04	03749	03750	03751	03752	N/A	1mm²	BK	WH	N/A	TS_05_07	15	16	TB-05-07	07A	07B	05	07	07	CA_05_07	CA_05_08	-	FGS_DO01
950-XL-06202	DO	TB-950-JE-06203	05	06	03753	03754	03755	03756	N/A	1mm²	BK	WH	N/A	TS_05_07	17	18	TB-05-07	08A	08B	05	07	08	CA_05_07	CA_05_08	-	FGS_DO01
77-HY-001	DO	TB-950-JE-06203	07	08	03757	03758	03759	03760	03761	1mm²	BK	WH	RD	N/A			TB-05-07	09A	09B	05	07	09	CA_05_07	CA_05_08	KA5	FGS_DO02
77-HY-002	DO	TB-950-JE-06203	09	10	03762	03763	03764	03765	03766	1mm²	BK	WH	RD	N/A			TB-05-07	10A	10B	05	07	10	CA_05_07	CA_05_08	KA6	FGS_DO02
77-HY-003	DO	TB-950-JE-06203	11	12	03767	03768	03769	03770	03771	1mm²	BK	WH	RD	N/A			TB-03-07	10A	10B	03	07	10	CA_03_07	CA_03_08	KA1	FGS_DO02
950-XZ-07101	DO	TB-950-JE-07101	01	02	03772	03773	03774	03775	N/A	1mm²	BK	WH	N/A	TS_06_03	1	2	TB-06-03	01A	01B	06	03	01	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-07101	DO	TB-950-JE-07101	03	04	03776	03777	03778	03779	N/A	1mm²	BK	WH	N/A	TS_06_03	3	4	TB-06-03	02A	02B	06	03	02	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-07102	DO	TB-950-JE-07101	05	06	03780	03781	03782	03783	N/A	1mm²	BK	WH	N/A	TS_06_03	5	6	TB-06-03	03A	03B	06	03	03	CA_06_03	CA_06_04	-	FGS_DO01
WS01[illegible]0050712	DO	TB-950-JE-07101	07	08	03784	03785	03786	03787	N/A	1mm²	BK	WH	N/A	TS_05_07	19	20	TB-05-07	12A	12B	05	07	12	CA_05_07	CA_05_08	-	FGS_DO01
WS01[illegible]0060310	DO	TB-950-JE-07101	09	10	03788	03789	03790	03791	N/A	1mm²	BK	WH	N/A	TS_06_03	7	8	TB-06-03	10A	10B	06	03	10	CA_06_03	CA_06_04	-	FGS_DO01
WS01[illegible]0060311	DO	TB-950-JE-07101	11	12	03792	03793	03794	03795	N/A	1mm²	BK	WH	N/A	TS_06_03	9	10	TB-06-03	11A	11B	06	03	11	CA_06_03	CA_06_04	-	FGS_DO01

INSERT SPARE TERMINALS

01 02 03 04 05 06 07 08 09 10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL OUTPUT SIGNALS

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

A3 | DRAWING NO. 1724000594-IN-DG-00021 | SHEET 037 | REV. 1

FGS PANEL - TB-B400-FGS-002-4 + TB-B400-FGS-002-5 + TB-B400-FGS-002-6 + TB-NC-200F2.01 + TB-NC-200F2.02

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S.B NUM.	WIRE + (A)	WIRE - (A)	WIRE + (B)	WIRE - (B)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A+B)	WIRE COLOUR - (A+B)	WIRE PS COLOUR	FUSE T.S. NAME	FUSE T.S. A NUM.	FUSE T.S. B NUM.	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	RELAY TAG	TYPICAL
77-HY-015	DO	TB-B400-FGS-002-4	01	02	03801	03802	03803	03804	03805	1mm²	BK	WH	RD	N/A			TB-06-05	07A	07B	06	05	07	CA_06_05	CA_06_06	KA15	FGS_DO02
77-HY-016	DO	TB-B400-FGS-002-4	03	04	03806	03807	03808	03809	03810	1mm²	BK	WH	RD	N/A			TB-06-05	08A	08B	06	05	08	CA_06_05	CA_06_06	KA16	FGS_DO02
77-HY-012	DO	TB-B400-FGS-002-5	01	02	03811	03812	03813	03814	03815	1mm²	BK	WH	RD	N/A			TB-06-05	04A	04B	06	05	04	CA_06_05	CA_06_06	KA12	FGS_DO02
77-HY-013	DO	TB-B400-FGS-002-5	03	04	03816	03817	03818	03819	03820	1mm²	BK	WH	RD	N/A			TB-06-05	05A	05B	06	05	05	CA_06_05	CA_06_06	KA13	FGS_DO02
77-HY-014	DO	TB-B400-FGS-002-5	05	06	03821	03822	03823	03824	03825	1mm²	BK	WH	RD	N/A			TB-06-05	06A	06B	06	05	06	CA_06_05	CA_06_06	KA14	FGS_DO02
950-XZ-04201	DO	TB-B400-FGS-002-6	01	02	03826	03827	03828	03829	N/A	1mm²	BK	WH	N/A	TS_06_03	11	12	TB-06-03	04A	04B	06	03	04	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-04201	DO	TB-B400-FGS-002-6	03	04	03830	03831	03832	03833	N/A	1mm²	BK	WH	N/A	TS_06_03	13	14	TB-06-03	05A	05B	06	03	05	CA_06_03	CA_06_04	-	FGS_DO01
950-XL-04202	DO	TB-B400-FGS-002-6	05	06	03834	03835	03836	03837	N/A	1mm²	BK	WH	N/A	TS_06_03	15	16	TB-06-03	06A	06B	06	03	06	CA_06_03	CA_06_04	-	FGS_DO01
72-XS-001	DO	TB-NC-200F2.01	01	02	03838	03839	03840	03841	N/A	1mm²	BK	WH	N/A	TS_06_03	17	18	TB-06-03	09A	09B	06	03	09	CA_06_03	CA_06_04	-	FGS_DO01
72-XS-002	DO	TB-NC-200F2.01	03	04	03842	03843	03844	03845	N/A	1mm²	BK	WH	N/A	TS_06_05	19	20	TB-06-05	11A	11B	06	05	11	CA_06_05	CA_06_06	-	FGS_DO01

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00 DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - DIGITAL OUTPUT SIGNALS

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

A3 | DRAWING NO. 1724000594-IN-DG-00021 | SHEET 038 | REV. 1

SHEET LEFT INTENTIONALLY BLANK

1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00021

SHEET 039

REV. 1

FGS PANEL - TB-950-JE-01101 + TB-950-JE-01102 + TB-950-JE-02101

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR +(A)	WIRE COLOUR -(B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-FDZ-01101	AI	TB-950-JE-01101	01	02	03	04001	04002	04003	1mm²	BK	WH	RD	TB-02-01	05A	05B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-FDZ-01102	AI	TB-950-JE-01101	04	05	06	04004	04005	04006	1mm²	BK	WH	RD	TB-02-03	05A	05B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-FDZ-01103	AI	TB-950-JE-01101	07	08	09	04007	04008	04009	1mm²	BK	WH	RD	TB-03-01	05A	05B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-FDZ-01104	AI	TB-950-JE-01101	10	11	12	04010	04011	04012	1mm²	BK	WH	RD	TB-03-03	05A	05B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
WS0110020112	AI	TB-950-JE-01101	13	14	15	04013	04014	04015	1mm²	BK	WH	RD	TB-02-01	12A	12B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-01101	AI	TB-950-JE-01102	1	2	3	04016	04017	04018	1mm²	BK	WH	RD	TB-02-01	11A	11B	1	2	3	CA_1_2	CA_1_03	FGS_AI01
950-GDZ-01102	AI	TB-950-JE-01102	4	5	6	04019	04020	04021	1mm²	BK	WH	RD	TB-02-03	13A	13B	4	5	6	CA_4_5	CA_4_06	FGS_AI01
950-GDZ-01103	AI	TB-950-JE-01102	7	8	9	04022	04023	04024	1mm²	BK	WH	RD	TB-04-01	16A	16B	7	8	9	CA_7_8	CA_7_09	FGS_AI01
WS0110020113	AI	TB-950-JE-01102	10	11	12	04025	04026	04027	1mm²	BK	WH	RD	TB-02-01	13A	13B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
WS0110020315	AI	TB-950-JE-01102	13	14	15	04028	04029	04030	1mm²	BK	WH	RD	TB-02-03	15A	15B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-FDZ-02101	AI	TB-950-JE-02101	01	02	03	04031	04032	04033	1mm²	BK	WH	RD	TB-02-01	04A	04B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-FDZ-02102	AI	TB-950-JE-02101	04	05	06	04034	04035	04036	1mm²	BK	WH	RD	TB-02-03	04A	04B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-FDZ-02103	AI	TB-950-JE-02101	07	08	09	04037	04038	04039	1mm²	BK	WH	RD	TB-03-01	04A	04B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-FDZ-02104	AI	TB-950-JE-02101	10	11	12	04040	04041	04042	1mm²	BK	WH	RD	TB-03-03	04A	04B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-02101	AI	TB-950-JE-02101	13	14	15	04043	04044	04045	1mm²	BK	WH	RD	TB-02-01	01A	01B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-02102	AI	TB-950-JE-02101	16	17	18	04046	04047	04048	1mm²	BK	WH	RD	TB-02-01	02A	02B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-02103	AI	TB-950-JE-02101	19	20	21	04049	04050	04051	1mm²	BK	WH	RD	TB-02-01	03A	03B	19	20	21	CA_19_20	CA_19_021	FGS_AI01
950-GDZ-02104	AI	TB-950-JE-02101	22	23	24	04052	04053	04054	1mm²	BK	WH	RD	TB-02-03	01A	01B	22	23	24	CA_22_23	CA_22_024	FGS_AI01
950-GDZ-02105	AI	TB-950-JE-02101	25	26	27	04055	04056	04057	1mm²	BK	WH	RD	TB-02-03	02A	02B	25	26	27	CA_25_26	CA_25_027	FGS_AI01
950-GDZ-02106	AI	TB-950-JE-02101	28	29	30	04058	04059	04060	1mm²	BK	WH	RD	TB-02-03	03A	03B	28	29	30	CA_28_29	CA_28_030	FGS_AI01
WS0110020316	AI	TB-950-JE-02101	31	32	33	04061	04062	04063	1mm²	BK	WH	RD	TB-02-03	16A	16B	31	32	33	CA_31_32	CA_31_033	FGS_AI01
WS0110030114	AI	TB-950-JE-02101	34	35	36	04064	04065	04066	1mm²	BK	WH	RD	TB-03-01	14A	14B	34	35	36	CA_34_35	CA_34_036	FGS_AI01

~~FOR SIGNALS: 950-GDZ-01101-PS, 950-GDZ-01102-PS, 950-GDZ-01103-PS SEE PAG 021~~

IN SECT SPARE TERMINALS

TO REPLACE WITH RIGHT ASSIGNMENT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 040

REV. 1

FGS PANEL - TB-950-JE-02102 + TB-950-JE-03101 + TB-950-JE-02103

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A)	WIRE COLOUR - (B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-GDZ-02107	AI	TB-950-JE-02102	01	02	03	04101	04102	04103	1mm²	BK	WH	RD	TB-03-01	01A	01B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-02108	AI	TB-950-JE-02102	04	05	06	04104	04105	04106	1mm²	BK	WH	RD	TB-03-01	02A	02B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-02109	AI	TB-950-JE-02102	07	08	09	04107	04108	04109	1mm²	BK	WH	RD	TB-03-01	03A	03B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-02110	AI	TB-950-JE-02102	10	11	12	04110	04111	04112	1mm²	BK	WH	RD	TB-03-03	01A	01B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-02111	AI	TB-950-JE-02102	13	14	15	04113	04114	04115	1mm²	BK	WH	RD	TB-03-03	02A	02B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-02112	AI	TB-950-JE-02102	16	17	18	04116	04117	04118	1mm²	BK	WH	RD	TB-03-03	03A	03B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-02113	AI	TB-950-JE-02102	19	20	21	04119	04120	04121	1mm²	BK	WH	RD	TB-04-01	01A	01B	19	20	21	CA_19_20	CA_19_021	FGS_AI01
950-GDZ-02114	AI	TB-950-JE-02102	22	23	24	04122	04123	04124	1mm²	BK	WH	RD	TB-04-01	02A	02B	22	23	24	CA_22_23	CA_22_024	FGS_AI01
950-GDZ-02115	AI	TB-950-JE-02102	25	26	27	04125	04126	04127	1mm²	BK	WH	RD	TB-04-01	03A	03B	25	26	27	CA_25_26	CA_25_027	FGS_AI01
950-GDZ-02116	AI	TB-950-JE-02102	28	29	30	04128	04129	04130	1mm²	BK	WH	RD	TB-04-03	01A	01B	28	29	30	CA_28_29	CA_28_030	FGS_AI01
WS0120040113	AI	TB-950-JE-02102	31	32	33	04131	04132	04133	1mm²	BK	WH	RD	TB-04-01	13A	13B	31	32	33	CA_31_32	CA_31_033	FGS_AI01
WS0120040314	AI	TB-950-JE-02102	34	35	36	04134	04135	04136	1mm²	BK	WH	RD	TB-04-03	14A	14B	34	35	36	CA_34_35	CA_34_036	FGS_AI01
~~950-FDZ-03101~~	~~AI~~	~~TB-950-JE-03101~~	~~01~~	~~02~~	~~03~~	~~04137~~	~~04138~~	~~04139~~	~~1mm²~~	~~BK~~	~~WH~~	~~RD~~	~~TB-02-01~~	~~07A~~	~~07B~~	~~01~~	~~02~~	~~03~~	~~CA_01_02~~	~~CA_01_03~~	~~FGS_AI01~~
950-GDZ-02117	AI	TB-950-JE-02103	1	2	3	04140	04141	04142	1mm²	BK	WH	RD	TB-04-03	02A	02B	1	2	3	CA_1_2	CA_1_03	FGS_AI01
950-GDZ-02118	AI	TB-950-JE-02103	4	5	6	04143	04144	04145	1mm²	BK	WH	RD	TB-04-03	03A	03B	4	5	6	CA_4_5	CA_4_06	FGS_AI01
950-GDZ-02119	AI	TB-950-JE-02103	7	8	9	04146	04147	04148	1mm²	BK	WH	RD	TB-05-01	01A	01B	7	8	9	CA_7_8	CA_7_09	FGS_AI01
950-GDZ-02120	AI	TB-950-JE-02103	10	11	12	04149	04150	04151	1mm²	BK	WH	RD	TB-05-01	02A	02B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
WS0120040315	AI	TB-950-JE-02103	13	14	15	04152	04153	04154	1mm²	BK	WH	RD	TB-04-03	15A	15B	13	14	15	CA_13_14	CA_13_015	FGS_AI01

~~FOR SIGNALS: 950-GDZ-02117-PS, 950-GDZ-02118-PS, 950-GDZ-02119-PS, 950-GDZ-02120-PS SEE PAG 021~~

DUPLICATED!

REPLACE WITH RIGHT ASSIGNMENT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

A3 | DRAWING NO. 1724000594-IN-DG-00021 | SHEET 041 | REV. 1

FGS PANEL - TB-950-JE-03101 + TB-950-JE-03102 + TB-950-JE-04101

950-GDZ-03105

	TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A)	WIRE COLOUR - (B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
GDZ	950-~~FDZ~~-03101	AI	TB-950-JE-03101	01	02	03	04201	04202	04203	1mm²	BK	WH	RD	TB-02-01	07A	07B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
GDZ	950-~~FDZ~~-03102	AI	TB-950-JE-03101	04	05	06	04204	04205	04206	1mm²	BK	WH	RD	TB-02-03	07A	07B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
GDZ	950-~~FDZ~~-03103	AI	TB-950-JE-03101	07	08	09	04207	04208	04209	1mm²	BK	WH	RD	TB-03-01	07A	07B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
GDZ	950-~~FDZ~~-03104	AI	TB-950-JE-03101	10	11	12	04210	04211	04212	1mm²	BK	WH	RD	TB-03-03	07A	07B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
	950-GDZ-03107	AI	TB-950-JE-03101	13	14	15	04213	04214	04215	1mm²	BK	WH	RD	TB-02-01	08A	08B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
	950-GDZ-03108	AI	TB-950-JE-03101	16	17	18	04216	04217	04218	1mm²	BK	WH	RD	TB-02-03	08A	08B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
	950-GDZ-03109	AI	TB-950-JE-03101	19	20	21	04219	04220	04221	1mm²	BK	WH	RD	TB-03-01	08A	08B	19	20	21	CA_19_20	CA_19_021	FGS_AI01
	~~WS0110020114~~	AI	TB-950-JE-03101	22	23	24	04222	04223	04224	1mm²	BK	WH	RD	TB-02-01	14A	14B	22	23	24	CA_22_23	CA_22_024	FGS_AI01
	WS0120020115	AI	TB-950-JE-03101	25	26	27	04225	04226	04227	1mm²	BK	WH	RD	TB-02-01	15A	15B	25	26	27	CA_25_26	CA_25_027	FGS_AI01
	WS0120030115	AI	TB-950-JE-03101	28	29	30	04228	04229	04230	1mm²	BK	WH	RD	TB-03-01	15A	15B	28	29	30	CA_28_29	CA_28_030	FGS_AI01
	WS0120030116	AI	TB-950-JE-03101	31	32	33	04231	04232	04233	1mm²	BK	WH	RD	TB-03-01	16A	16B	31	32	33	CA_31_32	CA_31_033	FGS_AI01
	WS0120030311	AI	TB-950-JE-03101	34	35	36	04234	04235	04236	1mm²	BK	WH	RD	TB-03-03	11A	11B	34	35	36	CA_34_35	CA_34_036	FGS_AI01
FDZ	950-~~GDZ~~-03101	AI	TB-950-JE-03102	1	2	3	04237	04238	04239	1mm²	BK	WH	RD	TB-03-01	13A	13B	1	2	3	CA_1_2	CA_1_03	FGS_AI01
FDZ	950-~~GDZ~~-03102	AI	TB-950-JE-03102	4	5	6	04240	04241	04242	1mm²	BK	WH	RD	TB-03-03	08A	08B	4	5	6	CA_4_5	CA_4_06	FGS_AI01
FDZ	950-~~GDZ~~-03103	AI	TB-950-JE-03102	7	8	9	04243	04244	04245	1mm²	BK	WH	RD	TB-04-01	08A	08B	7	8	9	CA_7_8	CA_7_09	FGS_AI01
FDZ	950-~~GDZ~~-03104	AI	TB-950-JE-03102	10	11	12	04246	04247	04248	1mm²	BK	WH	RD	TB-04-03	08A	08B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
	~~950-GDZ-03105~~	AI	TB-950-JE-03102	13	14	15	04249	04250	04251	1mm²	BK	WH	RD	TB-05-01	08A	08B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
	WS0120030312	AI	TB-950-JE-03102	16	17	18	04252	04253	04254	1mm²	BK	WH	RD	TB-03-03	12A	12B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
	950-FDZ-04101	AI	TB-950-JE-04101	01	02	03	04255	04256	04257	1mm²	BK	WH	RD	TB-02-01	06A	06B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
	950-FDZ-04102	AI	TB-950-JE-04101	04	05	06	04258	04259	04260	1mm²	BK	WH	RD	TB-02-03	06A	06B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
	950-FDZ-04103	AI	TB-950-JE-04101	07	08	09	04261	04262	04263	1mm²	BK	WH	RD	TB-03-01	06A	06B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
	950-FDZ-04104	AI	TB-950-JE-04101	10	11	12	04264	04265	04266	1mm²	BK	WH	RD	TB-03-03	06A	06B	10	11	12	CA_10_11	CA_10_012	FGS_AI01

FOR SIGNALS: 950-GDZ-03101-PS, 950-GDZ-03102-PS, 950-GDZ-03103-PS, 950-GDZ-03104-PS, 950-GDZ-03105-PS SEE PAG 021

WIRED SPARE (WS0120020114)

REPLACE WITH RIGHT ASSIGNMENT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 042

REV. 1

FGS PANEL - TB-950-JE-04201 + TB-950-JE-04205 + TB-950-JE-05101

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A)	WIRE COLOUR - (B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-GDZ-04213	AI	TB-950-JE-04201	01	02	03	04301	04302	04303	1mm²	BK	WH	RD	TB-02-01	09A	09B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-04214	AI	TB-950-JE-04201	04	05	06	04304	04305	04306	1mm²	BK	WH	RD	TB-02-03	11A	11B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-04215	AI	TB-950-JE-04201	07	08	09	04307	04308	04309	1mm²	BK	WH	RD	TB-03-01	11A	11B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-04216	AI	TB-950-JE-04201	10	11	12	04310	04311	04312	1mm²	BK	WH	RD	TB-02-01	10A	10B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-04217	AI	TB-950-JE-04201	13	14	15	04313	04314	04315	1mm²	BK	WH	RD	TB-02-03	12A	12B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-04218	AI	TB-950-JE-04201	16	17	18	04316	04317	04318	1mm²	BK	WH	RD	TB-03-01	12A	12B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-04207	AI	TB-950-JE-04205	01	02	03	04319	04320	04321	1mm²	BK	WH	RD	TB-04-01	04A	04B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-04208	AI	TB-950-JE-04205	04	05	06	04322	04323	04324	1mm²	BK	WH	RD	TB-04-03	04A	04B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-04209	AI	TB-950-JE-04205	07	08	09	04325	04326	04327	1mm²	BK	WH	RD	TB-05-01	04A	04B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-04210	AI	TB-950-JE-04205	10	11	12	04328	04329	04330	1mm²	BK	WH	RD	TB-04-01	05A	05B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-04211	AI	TB-950-JE-04205	13	14	15	04331	04332	04333	1mm²	BK	WH	RD	TB-04-03	05A	05B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-04212	AI	TB-950-JE-04205	16	17	18	04334	04335	04336	1mm²	BK	WH	RD	TB-05-01	05A	05B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-FDZ-05101	AI	TB-950-JE-05101	01	02	03	04337	04338	04339	1mm²	BK	WH	RD	TB-02-03	10A	10B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-FDZ-05102	AI	TB-950-JE-05101	04	05	06	04340	04341	04342	1mm²	BK	WH	RD	TB-03-01	10A	10B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-FDZ-05103	AI	TB-950-JE-05101	07	08	09	04343	04344	04345	1mm²	BK	WH	RD	TB-03-03	10A	10B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-FDZ-05104	AI	TB-950-JE-05101	10	11	12	04346	04347	04348	1mm²	BK	WH	RD	TB-04-01	10A	10B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-05101	AI	TB-950-JE-05101	13	14	15	04349	04350	04351	1mm²	BK	WH	RD	TB-02-03	09A	09B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-05102	AI	TB-950-JE-05101	16	17	18	04352	04353	04354	1mm²	BK	WH	RD	TB-03-01	09A	09B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-05103	AI	TB-950-JE-05101	19	20	21	04355	04356	04357	1mm²	BK	WH	RD	TB-03-03	09A	09B	19	20	21	CA_19_20	CA_19_021	FGS_AI01
950-GDZ-05104	AI	TB-950-JE-05101	22	23	24	04358	04359	04360	1mm²	BK	WH	RD	TB-04-01	09A	09B	22	23	24	CA_22_23	CA_22_024	FGS_AI01
950-GDZ-05105	AI	TB-950-JE-05101	25	26	27	04361	04362	04363	1mm²	BK	WH	RD	TB-04-03	09A	09B	25	26	27	CA_25_26	CA_25_027	FGS_AI01
950-GDZ-05106	AI	TB-950-JE-05101	28	29	30	04364	04365	04366	1mm²	BK	WH	RD	TB-05-01	09A	09B	28	29	30	CA_28_29	CA_28_030	FGS_AI01
WS0110040114	AI	TB-950-JE-05101	31	32	33	04367	04368	04369	1mm²	BK	WH	RD	TB-04-01	14A	14B	31	32	33	CA_31_32	CA_31_033	FGS_AI01
WS0110040115	AI	TB-950-JE-05101	34	35	36	04370	04371	04372	1mm²	BK	WH	RD	TB-04-01	15A	15B	34	35	36	CA_34_35	CA_34_036	FGS_AI01

REPLACE WITH RIGHT ASSIGNMENT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 043

REV. 1

FGS PANEL - TB-950-JE-06101 + TB-950-JE-06201 + TB-B400-FGS-002-3

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. A NUM.	T.S. B NUM	T.S. C NUM.	WIRE + (A)	WIRE - (A)	WIRE PS +	WIRE SECTION (A+B+PS)	WIRE COLOUR + (A)	WIRE COLOUR - (B)	WIRE PS COLOUR	T.B. NAME	T.B. IN +	T.B.IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
950-FDZ-06101	AI	TB-950-JE-06101	01	02	03	04401	04402	04403	1mm²	BK	WH	RD	TB-04-03	10A	10B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-FDZ-06103	AI	TB-950-JE-06101	04	05	06	04404	04405	04406	1mm²	BK	WH	RD	TB-05-01	10A	10B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
WS012 0050113	AI	TB-950-JE-06101	07	08	09	04407	04408	04409	1mm²	BK	WH	RD	TB-05-01	13A	13B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
WS012 0050114	AI	TB-950-JE-06101	10	11	12	04410	04411	04412	1mm²	BK	WH	RD	TB-05-01	14A	14B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-06201	AI	TB-950-JE-06201	01	02	03	04413	04414	04415	1mm²	BK	WH	RD	TB-04-01	06A	06B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-06202	AI	TB-950-JE-06201	04	05	06	04416	04417	04418	1mm²	BK	WH	RD	TB-04-03	06A	06B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-06203	AI	TB-950-JE-06201	07	08	09	04419	04420	04421	1mm²	BK	WH	RD	TB-05-01	06A	06B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-06204	AI	TB-950-JE-06201	10	11	12	04422	04423	04424	1mm²	BK	WH	RD	TB-04-01	07A	07B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-06205	AI	TB-950-JE-06201	13	14	15	04425	04426	04427	1mm²	BK	WH	RD	TB-04-03	07A	07B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-06206	AI	TB-950-JE-06201	16	17	18	04428	04429	04430	1mm²	BK	WH	RD	TB-05-01	07A	07B	16	17	18	CA_16_17	CA_16_018	FGS_AI01
950-GDZ-04201	AI	TB-B400-FGS-002-3	01	02	03	04431	04432	04433	1mm²	BK	WH	RD	TB-04-01	11A	11B	01	02	03	CA_01_02	CA_01_03	FGS_AI01
950-GDZ-04202	AI	TB-B400-FGS-002-3	04	05	06	04434	04435	04436	1mm²	BK	WH	RD	TB-04-03	11A	11B	04	05	06	CA_04_05	CA_04_06	FGS_AI01
950-GDZ-04203	AI	TB-B400-FGS-002-3	07	08	09	04437	04438	04439	1mm²	BK	WH	RD	TB-05-01	11A	11B	07	08	09	CA_07_08	CA_07_09	FGS_AI01
950-GDZ-04204	AI	TB-B400-FGS-002-3	10	11	12	04440	04441	04442	1mm²	BK	WH	RD	TB-04-01	12A	12B	10	11	12	CA_10_11	CA_10_012	FGS_AI01
950-GDZ-04205	AI	TB-B400-FGS-002-3	13	14	15	04443	04444	04445	1mm²	BK	WH	RD	TB-04-03	12A	12B	13	14	15	CA_13_14	CA_13_015	FGS_AI01
950-GDZ-04206	AI	TB-B400-FGS-002-3	16	17	18	04446	04447	04448	1mm²	BK	WH	RD	TB-05-01	12A	12B	16	17	18	CA_16_17	CA_16_018	FGS_AI01

INSERT SPARE TERMINALS

REPLACE WITH RIGHT ASSIGNMENT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
FGS PANEL - NIS ANALOG INPUT SIGNALS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 044

REV. 1

SHEET LEFT INTENTIONALLY BLANK

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	02.10.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-SIS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
SIS AND FGS WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00021

SHEET 045

REV. 1

Section 7 MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE

NOT APPLICABLE

Section 8 MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE

NOT APPLICABLE

Section 9 MECHANICAL COMPLETION STATUS INDEX - HVAC DISCIPLINE

NOT APPLICABLE

Section 10 MECHANICAL COMPLETION STATUS INDEX - PIPING DISCIPLINE

NOT APPLICABLE

Section 11 MECHANICAL COMPLETION INDEX - SAFETY DISCIPLINE

NOT APPLICABLE

Section 12 FAT / VENDOR REPORTS

ROSETTI MARINO	**INSPECTION REPORT**	**Report No**. IR-YOK-0594-01	SHEET 1 di 6
		Data *Date from 04/10/2024 to 11/10/2024*	Rev. *Rev. 0*
PROGETTO *Project* **Base Load Power Hub (BLPH)**	**CLIENTE** *Client* CROSSWIND	**COMMESSA** / *Job* ***123A90***	**COMMESSA FORNITORE** / *Job Vendor* YOKOGAWA
FORNITORE *Supplier: YOKOGAWA*	**No. Ordine** *P.O. No.* **1724000594**	**OGGETTO** *Object* **INTEGRATED CONTROL AND SAFETY SYSTEM (ICSS)**	

DESCRIZIONE DEL MATERIALE / *Material Description*

POS. *Item*	**QUANTITA'** *Quantity*	**DESCRIZIONE** *Description*	**Nr. TAG** *TAG No.*	**TIPO DI ISPEZIONE** / *Kind of Inspection*	**ESITO** / *Result*
10	1	CONTROL SYSTEM	B400-PCS-001/002 B400-EMCS-001 B400-FGS-001/002/003 B400-SIS-001	Visual Check & FAT	**Satisfactory with Punch list**

DOCUMENTI APPLICABILI / *Applicable Documents*

TITOLO DOCUMENTO / *Document Title*	**NUMERO DOCUMENTO** / *Document Number*	**REVISIONE** / *Revision*	**STATO DOCUMENTO** / *Document Status*
INSPECTION AND TEST PLAN	1724000594-QC-ITP-00002	01	AFC
HARDWARE FACTORY ACCEPTANCE TEST (FAT) PROCEDURE	1724000594-QC-PRO-00030	01	AFC
*	*	*	*

Remarks:
*all other dwg's applicable are listed in section D like attachements

DISTRIBUZIONE A: / *Distribution to:*

☒**GESTIONE FORNITURE** / *Supply Management Department*	☒**CAPO COMMESSA** / *Project Manager*
☒**PRODUZIONE** / *Production*	☒**FORNITORE** / *Supplier*
☒**PPLM** */ Project Procurement & Logistic Manager*	☒**P.Q.M.**
☒**MAGAZZINO** / *Warehouse*	☒**P.E.M.**

ATTIVITA' ESEGUITE / *Activities Carried Out*

A - INTRODUZIONE / *Preliminary Introduction*

The present report refers to the inspection visit carried out from 04/10/2024 to 11/10/2024 at PREI factory (sucontractor of YOKOGAWA), located in ALZATE BRIANZA, ITALY.
The following inspection activities were witnessed by Rosetti Marino and Crosswind as specified in the Notification of Inspection (Noi) and in accordance with ITP and Factory acceptance test procedure
Attendees the test:

Mauro Dossena (Rosetti Marino)
Fabio Sirigu (Rosetti Marino)
Luigi Pignatelli (Crosswind)
Alessandro Giorgetti (Yokogawa)
Alessandro Berra (Yokogawa)

L' INCARICATO / *The person in charge*	**IL RAPP. DEL CLIENTE** / *Client's Representative*	**IL FORNITORE** / *Supplier*
ROSETTI MARINO *Supply Management dept.* 		

QUESTO DOCUMENTO NON SOLLEVA IL FORNITORE DALLA RESPONSABILITA' DI EVENTUALI DIFETTI E/O MALFUNZIONAMENTI RILEVATI DURANTE L'USO /
This document does not relieve the Supplier of the responsibility of any possible defects and/or misfunctioning arising during the utilisation.

ROSETTI MARINO	**INSPECTION REPORT**	**Report No**. IR-YOK-0594-01	SHEET 2 di 6
		Data *Date from 04/10/2024 to 11/10/2024*	Rev. *Rev. 0*
PROGETTO *Project* **Base Load Power Hub (BLPH)**	**CLIENTE** *Client* CROSSWIND	**COMMESSA** / *Job* ***123A90***	**COMMESSA FORNITORE** / *Job Vendor* YOKOGAWA
FORNITORE *Supplier: YOKOGAWA*	**No. Ordine** *P.O. No.* **1724000594**	**OGGETTO** *Object* **INTEGRATED CONTROL AND SAFETY SYSTEM (ICSS)**	

Area of concern
None

B –SCOPO DELL'ISPEZIONE / *Scope of Inspection*

DESCRIZIONE DEI TEST PRESENZIATI / *Description of witnessed tests*	**ESITO** / *Result*
DAY 1 **B400-PCS-001/002** - Visual & dimensional check - Electrical distribution functional check - Power supplies redundancy functional tests - I/O Functional test - I/O Redundancy functional tests - CPU and I/O bus couplers redundancy functional tests **DAY 2-3** **B400-EMCS-001** - Visual & dimensional check - Electrical distribution functional check - Power supplies redundancy functional tests - I/O Functional test - I/O Redundancy functional tests **DAY 4-5** **B400-FGS-001/002/003** - Visual & dimensional check - Electrical distribution functional check - Power supplies redundancy functional tests - I/O Functional test - I/O Redundancy functional tests - CPU and I/O bus couplers redundancy functional tests **DAY 6** **B400-SIS-001** - Visual & dimensional check - Electrical distribution functional check - Power supplies redundancy functional tests - I/O Functional test	**Satisfactory with Punch List**

L' INCARICATO / *The person in charge*	**IL RAPP. DEL CLIENTE** / *Client's Representative*	**IL FORNITORE** / *Supplier*
ROSETTI MARINO *Supply Management dept.*		

- I/O Redundancy functional tests
- CPU and I/O bus couplers redundancy functional tests

C –DETTAGLIO DEGLI STRUMENTI UTILIZZATI PER TEST E ISPEZIONE / *Details of Inspection and Test Instruments used*

NOME DELLO STRUMENTO *Equipment name*	**PRODUTTORE** *Manufacturer*	**MODELLO** *Model*	**PROSSIMA TARATURA** *Next calibration*
Multimeter	**FLUKE**	**87V (serial N. 96410192)**	**(1)**
Multifunction calibrator	**DRUCK**	**UPS-II (serial N. 59160)**	**(2)**

Remarks

(1) Refer to calibration certificate N. 210866V10e24 issued by Aviatronik Trescal on 10th May 2024, here attached
(2) Refer to calibration certificate N. 210863V10e24 issued by Aviatronik Trescal on 10th May 2024, here attached

D –ALLEGATI / *Attachments (***CERTIFICATI E TEST REPORT** */ Certificates and Test Reports)*

NUMERO DOCUMENTO / *Document Number*	**DESCRIZIONE** / *Description*	**TIPO** / *Type*	**NR. PAGINE** / *No. Pages*
1724000594-QC-PRO-00030	HW FACTORY ACCEPTANCE TEST (FAT) PROCEDURE	Signed copy	112
1724000594-IN-DA-00009	PCS CABINETS GENERAL ARRANGEMENT DRAWINGS AND INTERNAL LAYOUT	Mark-up copy	23
1724000594-IN-DG-00020	PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS	Mark-up copy	43
1724000594-IN-DA-00013	EMCS CABINETS GENERAL ARRANGEMENT DRAWINGS AND INTERNAL LAYOUT	Mark-up copy	23
1724000594-IN-DG-00024	EMCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS	Mark-up copy	30
1724000594-IN-DA-00010	SAFETY SYSTEMS CABINETS (SIS AND FGS) GENERAL ARRANGEMENT DRAWINGS AND INTERNAL LAYOUT	Mark-up copy	36
1724000594-IN-DG-00021	SAFETY SYSTEMS CABINETS (SIS AND FGS) WIRING DIAGRAMS AND TERMINAL STRIPS	Mark-up copy	78
-	PUNCH LIST	Signed copy	1
-	B400-PCS-001-2 Check Sheet and Punch Records	Signed copy	13
-	B400-EMCS-001 Check Sheet and Punch Records	Signed copy	7
-	B400-FGS-001-2-3 Check Sheet and Punch Records	Signed copy	7
-	B400-SIS-001 Check Sheet and Punch Records	Signed copy	8

E – DETTAGLI ED ESITO DELL'ISPEZIONE */ Details and Results of Inspection*

All details have been highlighted in the test reports

F – CONCLUSIONI */ Conclusions*

L' INCARICATO / *The person in charge*	**IL RAPP. DEL CLIENTE** / *Client's Representative*	**IL FORNITORE** / *Supplier*
ROSETTI MARINO *Supply Management dept.*		

QUESTO DOCUMENTO NON SOLLEVA IL FORNITORE DALLA RESPONSABILITA' DI EVENTUALI DIFETTI E/O MALFUNZIONAMENTI RILEVATI DURANTE L'USO /
This document does not relieve the Supplier of the responsibility of any possible defects and/or misfunctioning arising during the utilisation.

ROSETTI MARINO	**INSPECTION REPORT**	**Report No**. IR-YOK-0594-01	SHEET 4 di 6
		Data *Date from 04/10/2024 to 11/10/2024*	Rev. *Rev. 0*
PROGETTO *Project* **Base Load Power Hub (BLPH)**	**CLIENTE** *Client* CROSSWIND	**COMMESSA** / *Job* ***123A90***	**COMMESSA FORNITORE** / *Job Vendor* YOKOGAWA
FORNITORE *Supplier: YOKOGAWA*	**No. Ordine** *P.O. No.* **1724000594**	**OGGETTO** *Object* **INTEGRATED CONTROL AND SAFETY SYSTEM (ICSS)**	

FAT for B400-PCS-001/002, B400-EMCS-001, B400-FGS-001/002/003, B400-SIS-001 has been completed successfully with Punch Lists.
During FAT has been created a Master Copy of documents with all red marked up in order to create a pictures for construction and commission team.
The above cabinets will be delivered during week 42.

G – PUNTI IRRISOLTI / *Outstanding points*

See attached Punch List

H – STATO PACKING LIST / *Packing List Status*	☒ **EMESSO** / *Issued*	☐ **NON EMESSO** / *Not Issued*	DD/MM/YYYY **ULTIMA DATA UTILE** / *Last Date*

PUNCH LIST REPORT: VEDI ALLEGATO N° / *Refer to Attachment n° NOT APPLICABLE*

REPORT FOTOGRAFICO (SE PRESENTE) / *Digital Pictures (if any)*



Punch P005



Punch P008

L' INCARICATO / *The person in charge*	**IL RAPP. DEL CLIENTE** / *Client's Representative*	**IL FORNITORE** / *Supplier*
ROSETTI MARINO *Supply Management dept.*		

QUESTO DOCUMENTO NON SOLLEVA IL FORNITORE DALLA RESPONSABILITA' DI EVENTUALI DIFETTI E/O MALFUNZIONAMENTI RILEVATI DURANTE L'USO /
This document does not relieve the Supplier of the responsibility of any possible defects and/or misfunctioning arising during the utilisation.

ROSETTI MARINO	**INSPECTION REPORT**	**Report No.** IR-YOK-0594-01	SHEET 5 di 6
		Data *Date from 04/10/2024 to 11/10/2024*	Rev. *Rev. 0*
PROGETTO *Project* **Base Load Power Hub (BLPH)**	**CLIENTE** *Client* CROSSWIND	**COMMESSA** / *Job* ***123A90***	**COMMESSA FORNITORE** / *Job Vendor* YOKOGAWA
FORNITORE *Supplier: YOKOGAWA*	**No. Ordine** *P.O. No.* **1724000594**	**OGGETTO** *Object* **INTEGRATED CONTROL AND SAFETY SYSTEM (ICSS)**	



Punch E003



Punch E006



Punch F003



Punch F004

L' INCARICATO / *The person in charge*	**IL RAPP. DEL CLIENTE** / *Client's Representative*	**IL FORNITORE** / *Supplier*
ROSETTI MARINO *Supply Management dept.*		

QUESTO DOCUMENTO NON SOLLEVA IL FORNITORE DALLA RESPONSABILITA' DI EVENTUALI DIFETTI E/O MALFUNZIONAMENTI RILEVATI DURANTE L'USO /
This document does not relieve the Supplier of the responsibility of any possible defects and/or misfunctioning arising during the utilisation.

ROSETTI MARINO	**INSPECTION REPORT**	**Report No**. IR-YOK-0594-01	SHEET 6 di 6
		Data *Date from 04/10/2024 to 11/10/2024*	Rev. *Rev. 0*
PROGETTO *Project* **Base Load Power Hub (BLPH)**	**CLIENTE** *Client* CROSSWIND	**COMMESSA** / *Job* ***123A90***	**COMMESSA FORNITORE** / *Job Vendor* YOKOGAWA
FORNITORE *Supplier:* *YOKOGAWA*	**No. Ordine** *P.O. No.* **1724000594**	**OGGETTO** *Object* **INTEGRATED CONTROL AND SAFETY SYSTEM (ICSS)**	



Punch S002



Punch S003



Punch S005

NON VALIDO PER IL RILASCIO DELLA FORNITURA / *It is not valid for the supply's release*

L' INCARICATO / *The person in charge*	**IL RAPP. DEL CLIENTE** / *Client's Representative*	**IL FORNITORE** / *Supplier*
ROSETTI MARINO *Supply Management dept.*		

QUESTO DOCUMENTO NON SOLLEVA IL FORNITORE DALLA RESPONSABILITA' DI EVENTUALI DIFETTI E/O MALFUNZIONAMENTI RILEVATI DURANTE L'USO /
This document does not relieve the Supplier of the responsibility of any possible defects and/or misfunctioning arising during the utilisation.

Section 13 MECHANICAL COMPLETION CHANGES / MARK-UPS

NOT APPLICABLE