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

2	15.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00022

SHEET 001

REV. 2

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE
001	X	X								BASE LOAD POWER HUB (BLPH) COVER PAGE
002	X	X								BASE LOAD POWER HUB (BLPH) INDEX
003	X									BASE LOAD POWER HUB (BLPH) LEGEND
004	X	X								BASE LOAD POWER HUB (BLPH) SYMBOL LEGEND
005	X									BASE LOAD POWER HUB (BLPH) TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS
006	X									BASE LOAD POWER HUB (BLPH) SERV PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 1
007	X									BASE LOAD POWER HUB (BLPH) SERV PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 2
008	X	X								BASE LOAD POWER HUB (BLPH) SERV PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS
009	X									BASE LOAD POWER HUB (BLPH) SPARE PAGE
010	X	X	X							BASE LOAD POWER HUB (BLPH) SERV PANEL - BREAKER FAULT ALARM CIRCUIT
011	X	X								BASE LOAD POWER HUB (BLPH) SERV PANEL - SHIELD / GROUND CONNECTION
012	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
013	X	X	X							BASE LOAD POWER HUB (BLPH) SERV PANEL - POWER STRIPS DISTRIBUTION
014	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
015	X	X								BASE LOAD POWER HUB (BLPH) NET. PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 1
016	X	X								BASE LOAD POWER HUB (BLPH) NET. PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 2
017	X	X	X							BASE LOAD POWER HUB (BLPH) NET. PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS
018	X	X								BASE LOAD POWER HUB (BLPH) NET. PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS
019	X	X	X							BASE LOAD POWER HUB (BLPH) NET. PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN
020	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE
021	X	X	X							BASE LOAD POWER HUB (BLPH) NET PANEL - 230Vac / 24Vdc POWER DISTRIBUTION
022	X	X	X							BASE LOAD POWER HUB (BLPH) NET. PANEL - POWER STRIPS DISTRIBUTION
023	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
024	X	X	X							BASE LOAD POWER HUB (BLPH) NET PANEL - BREAKER FAULT ALARM CIRCUIT
025	X	X	X							BASE LOAD POWER HUB (BLPH) NET PANEL - SHIELD / GROUND CONNECTION
026	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
027	X	X	X							BASE LOAD POWER HUB (BLPH) NET PANEL - FAULT ALARM SIGNALS TO PCS
028	X	X	X							BASE LOAD POWER HUB (BLPH) NET. PANEL - POWER STRIPS DISTRIBUTION

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

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NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
INDEX

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

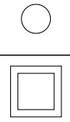
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DRAWING NO. 1724000594-IN-DG-00022

SHEET 002

REV. 2

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

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LEGEND

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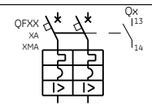
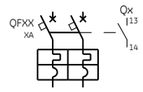
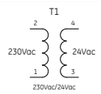
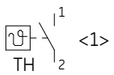
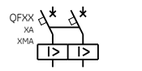
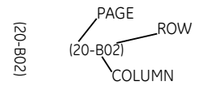
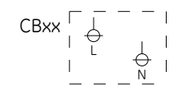
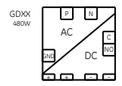
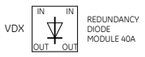
SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 003

REV. 2

	ROTATIVE MAIN SWITCH -		ELECTRIC FAN WITH FAULT DETECTION		I.S. BARRIER (NOTE: AB-xx FOR ACTIVE BARRIERS, ZB-xx FOR ZENER BARRIERS)
	DIFFERENTIAL RESIDUAL CURRENT CIRCUIT BREAKER WITH AUXILIARY CONTACT		PANEL ELECTRIC HEATER -		GALVANIC ISOLATOR -
	AUTOMATIC CIRCUIT BREAKER WITH AUXILIARY CONTACT		AC/AC VOLTAGE TRANSFORMER -		FUSED TERMINAL -
	DISCONNECTOR WITH FUSE -		THERMOSTATE NO CONTACT -		KNIFE TERMINAL -
	PURE RESIDUAL CURRENT CIRCUIT BREAKER		NO CONTACT -		FEED THROUGH TERMINAL -
	SURGE ARRESTOR -		NC CONTACT -		PAGE CROSS REFERENCE INDICATION -
	LINE FILTER MODULE -		DOOR LIMIT SWITCH -		COMMON BOX -
	SERVICE SOCKET -		FRONT PANEL ALARM BUZZER -		- -
	AC/DC FEEDER -		INTERNAL LIGHT OR FRONT PANEL LIGHT		- -
	REDUNDANCY DIODE MODULE -		MUSHROOM PUSHBUTTON INDICATOR NORMAL PUSHBUTTON INDICATOR		- -
	RELAYS -		ROTATIVE SELECTOR INDICATOR -		- -
	- -		RESISTOR -		- -
	- -		- -		- -

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CROSSWIND

ROSETTI MARINO

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BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS SYMBOL LEGEND

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

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A3

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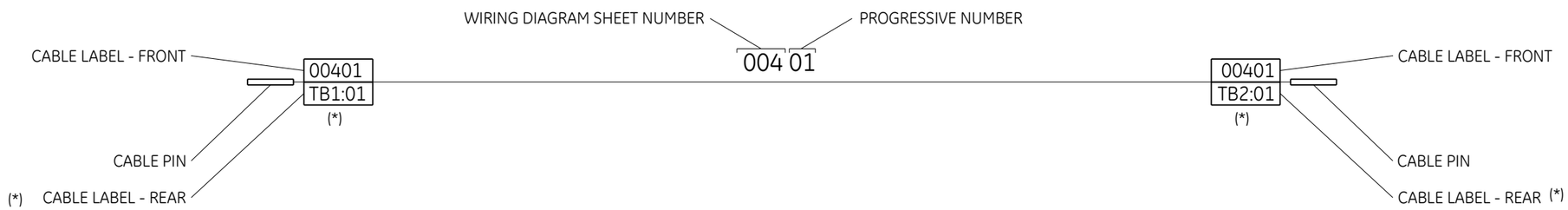
SHEET 004

REV. 2

COLOR ACRONYMS LIST :

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

TYPICAL WIRE MARKING



EARTH CONNECTION RESUME TABLE:

	CABINET
P.E. EARTH	○○○○○○○○○○○○○○○
I.E. EARTH	○○○○○○○○○○○○○○○

EARTH ACRONYMS LEGEND :

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

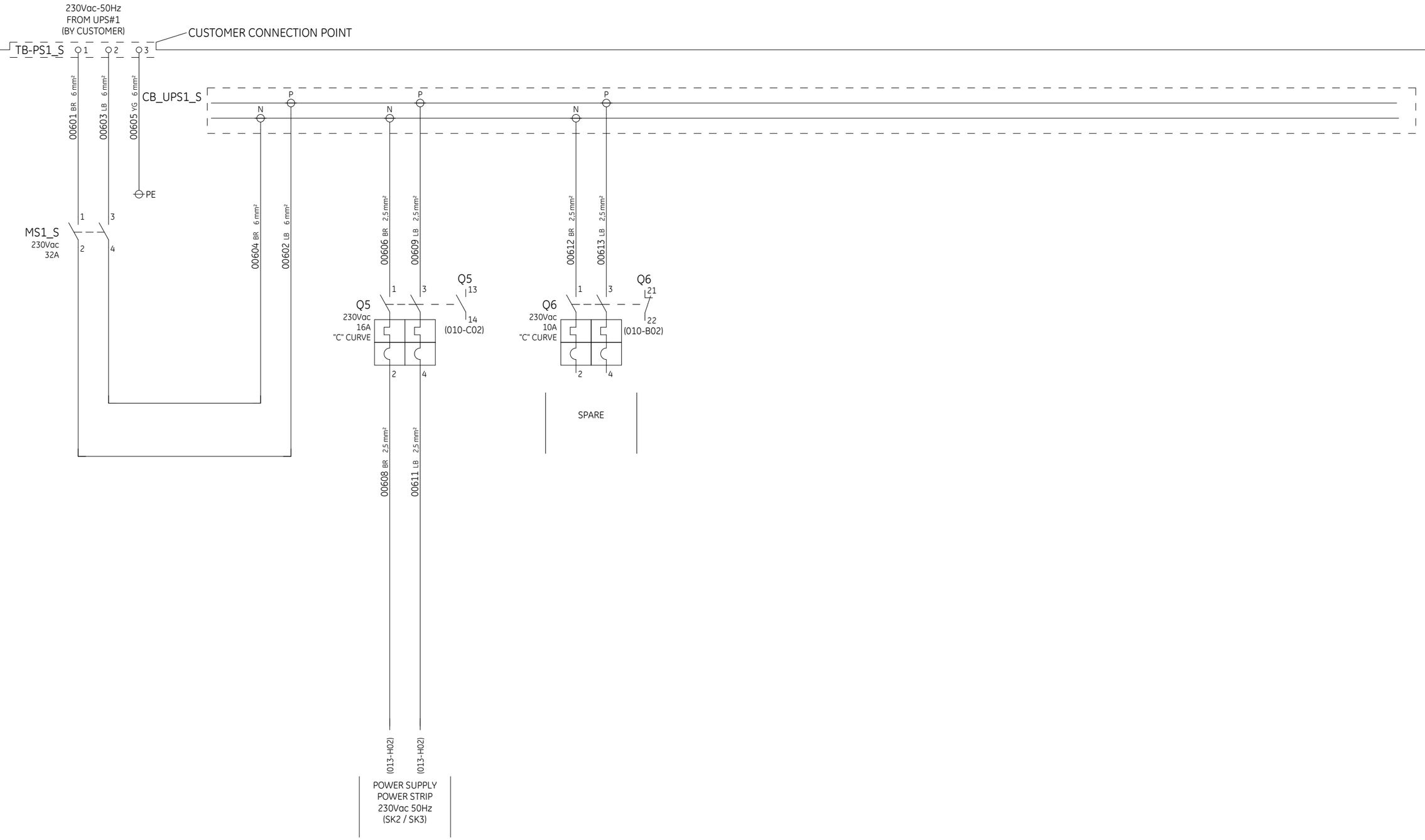
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ROSETTI MARINO

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NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DG-00022
SHEET 005
REV. 2

SERV. PANEL - POWER DISTRIBUTION FROM UPS LINE 1



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CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

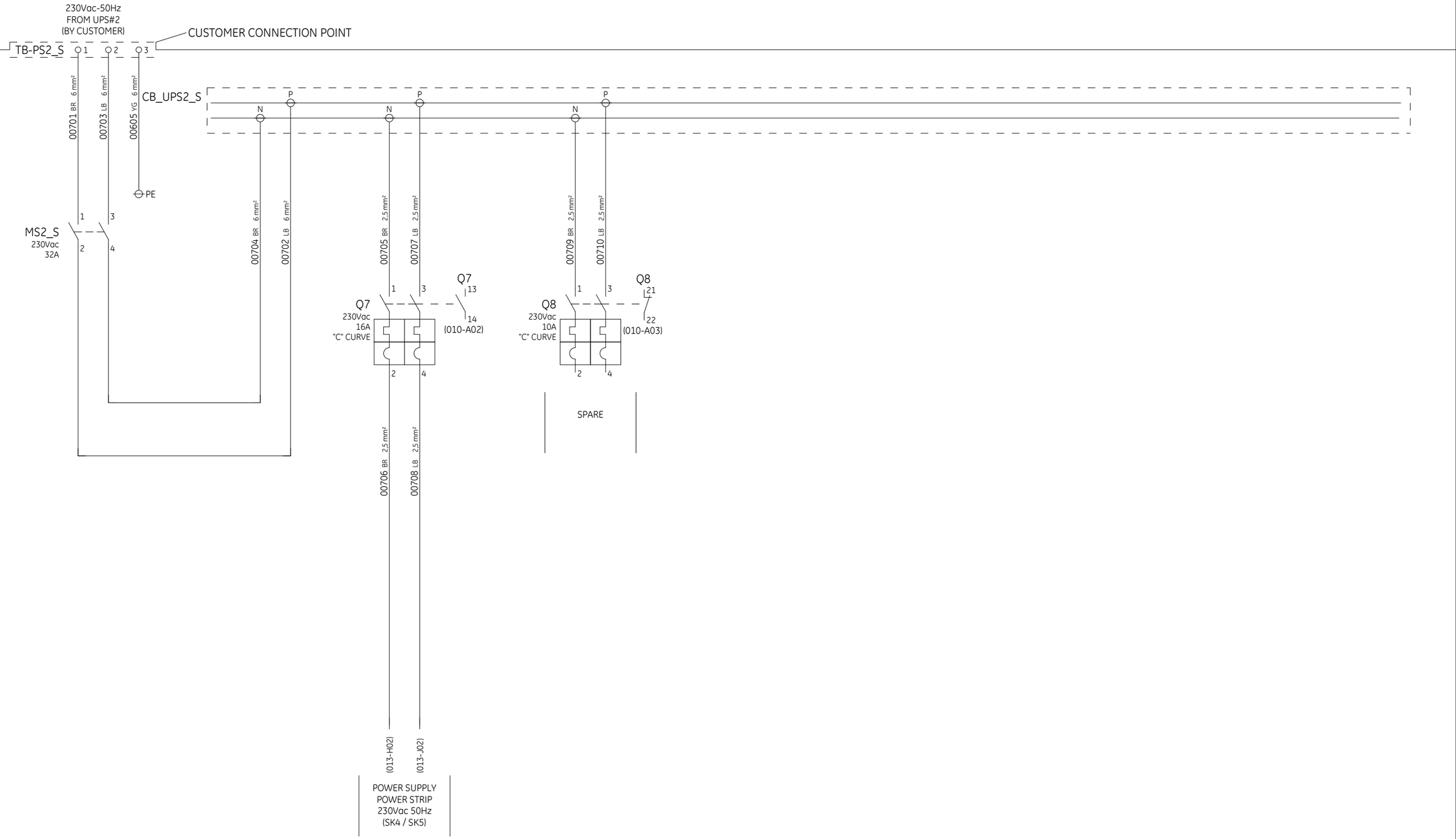
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DRAWING NO. 1724000594-IN-DG-00022

SHEET 006

REV. 2

SERV. PANEL - POWER DISTRIBUTION FROM UPS LINE 2



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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CROSSWIND

ROSETTI MARINO

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NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
SERV PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 2

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 007

REV. 2

SERV. PANEL - POWER DISTRIBUTION FROM NON UPS

230Vac-50Hz
FROM MCC
(BY CUSTOMER)

CUSTOMER CONNECTION POINT

TB-PS3_S 1 2 3

00801 BR 6 mm² — 00803 LB 6 mm² — 00605 YG 6 mm² — PE

CB_SER_S

N P — N P — N P — N P

00804 LB 6 mm² — 00802 BR 6 mm²

00805 BR 2.5 mm² — 00807 LB 2.5 mm²

00809 BR 2.5 mm² — 00813 LB 2.5 mm²

00814 BR 2.5 mm² — 00815 LB 2.5 mm²

Q1
230Vac
25A
Id 30mA
1 3 — 2 4
Q1 13 — 14 (010-G02)

Q2
230Vac
16A
"C" CURVE
1 3 — 2 4
Q2 13 — 14 (010-F02)

Q3
230Vac
2A
"C" CURVE
1 3 — 2 4
Q3 13 — 14 (010-E02)

Q4
230Vac
4A
"C" CURVE
1 3 — 2 4
Q4 21 — 22 (010-D02)

SPARE

00806 BR 2.5 mm² — 00808 LB 2.5 mm²

<1>
SK1 — PE — 00816 YG 2,5 mm² — PE

SERVICE SOCKET
230Vac 50Hz

00810 BR 1.5 mm²

S1_S 11 — 12

00811 BR 1.5 mm² — 00812 LB 1.5 mm²

H1_S x1 — x2

INTERNAL LIGHT
230Vac 50Hz
TOTAL CONSUMPTION: 15W

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

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SERV PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS

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SCALE : 1

A3

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SHEET 008

REV. 2

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SPARE PAGE

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SCALE : 1

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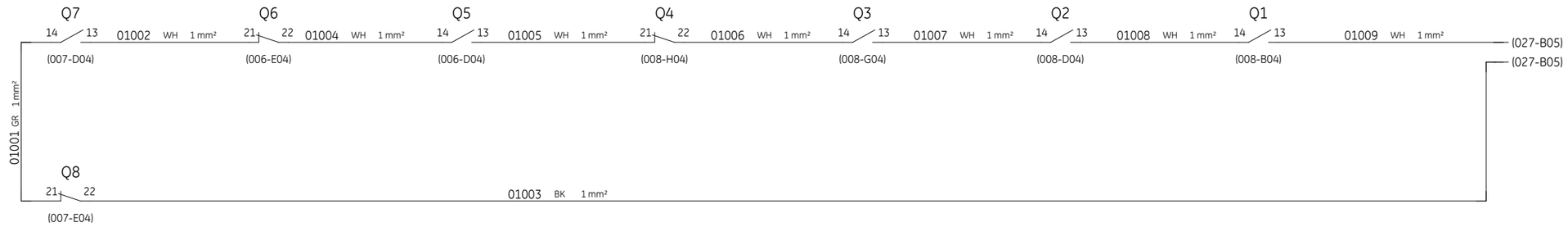
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SHEET 009

REV. 2

SERV. PANEL - BRAKER FAULT ALARM CIRCUIT

230Vac CIRCUIT BREAKER



87-XA-073 <1>
SERVER PANEL CUMULATIVE BREAKER FAULT
<2>

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

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SERV PANEL - BREAKER FAULT ALARM CIRCUIT

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SCALE : 1

A3

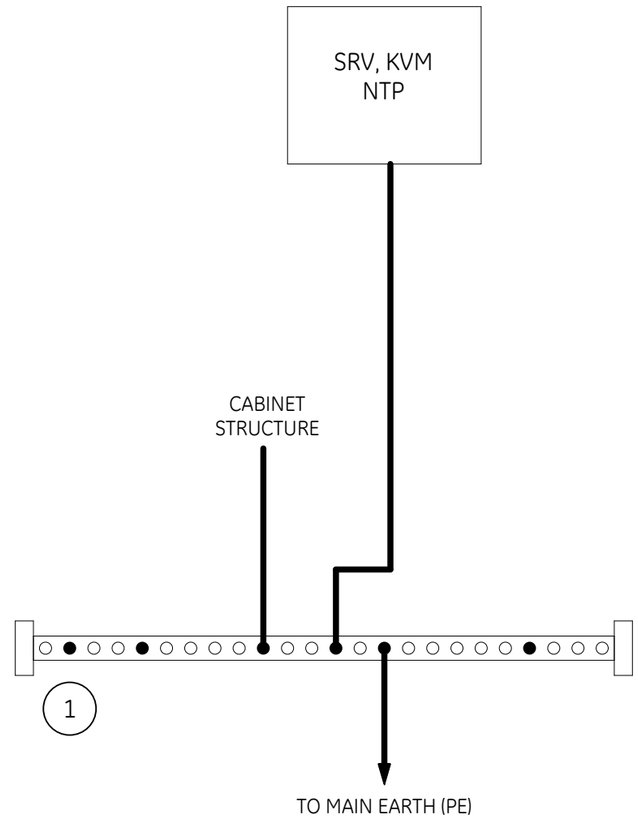
DRAWING NO. 1724000594-IN-DG-00022

SHEET 010

REV. 2

SERV. PANEL - SHIELD/GROUND CONNECTION

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



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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 011

REV. 2

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0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

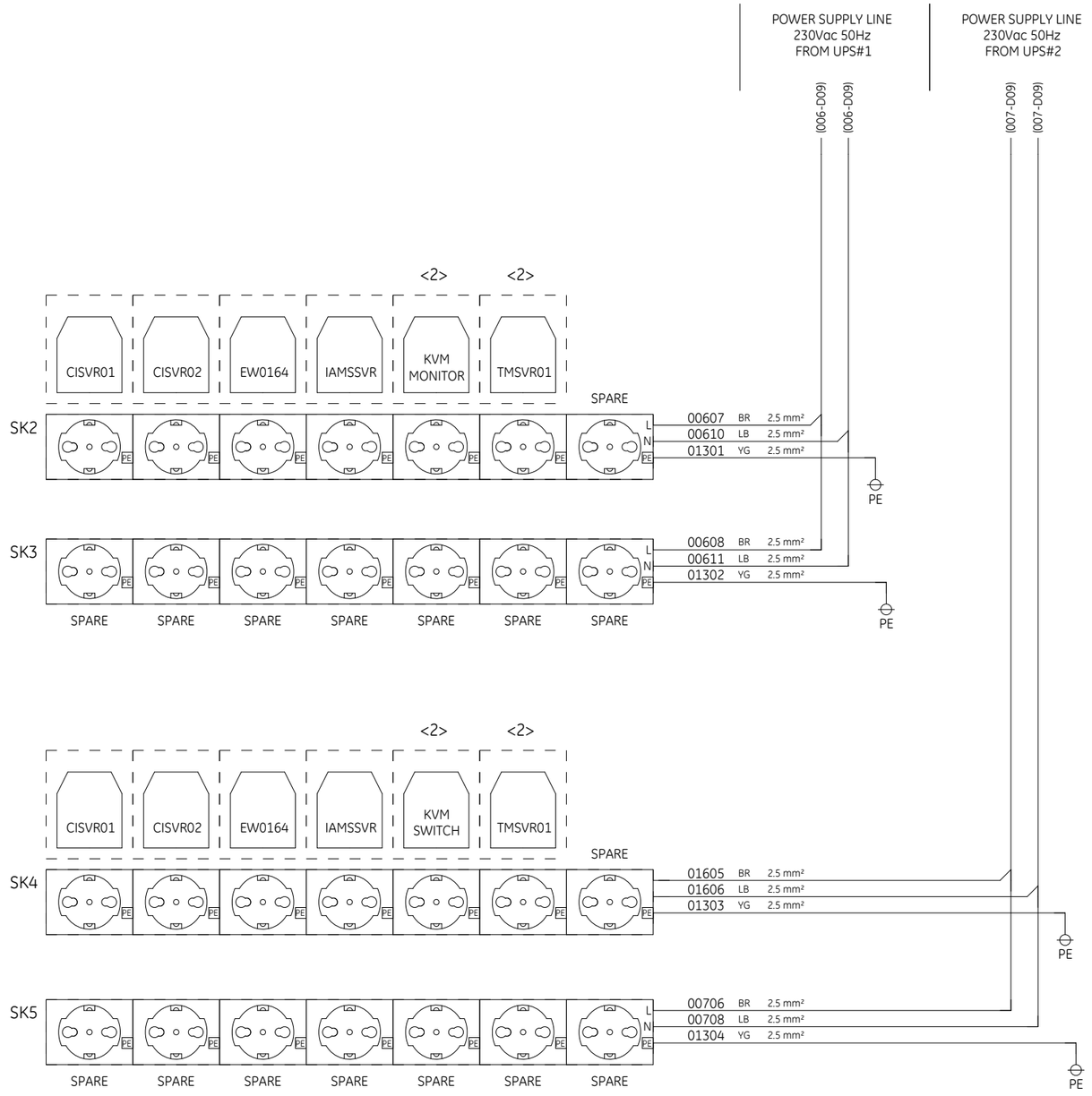
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DRAWING NO. 1724000594-IN-DG-00022

SHEET 012

REV. 2

SERV. PANEL - POWER STRIPS DISTRIBUTION



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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	15.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 013

REV. 2

SHEET LEFT INTENTIONALLY BLANK

2	15.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

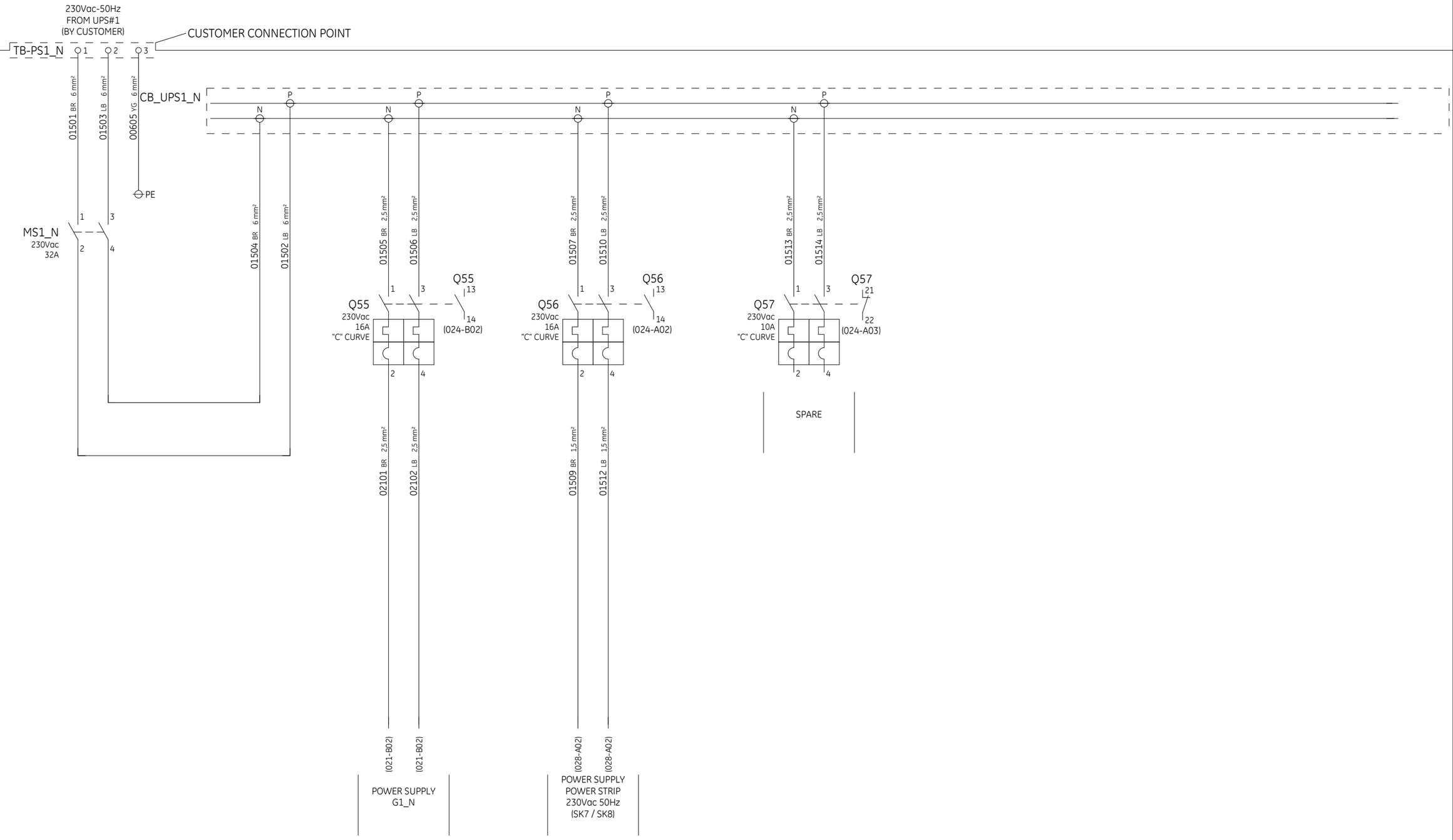
A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 014

REV. 2

NET PANEL - POWER DISTRIBUTION FROM UPS LINE 1



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	15.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

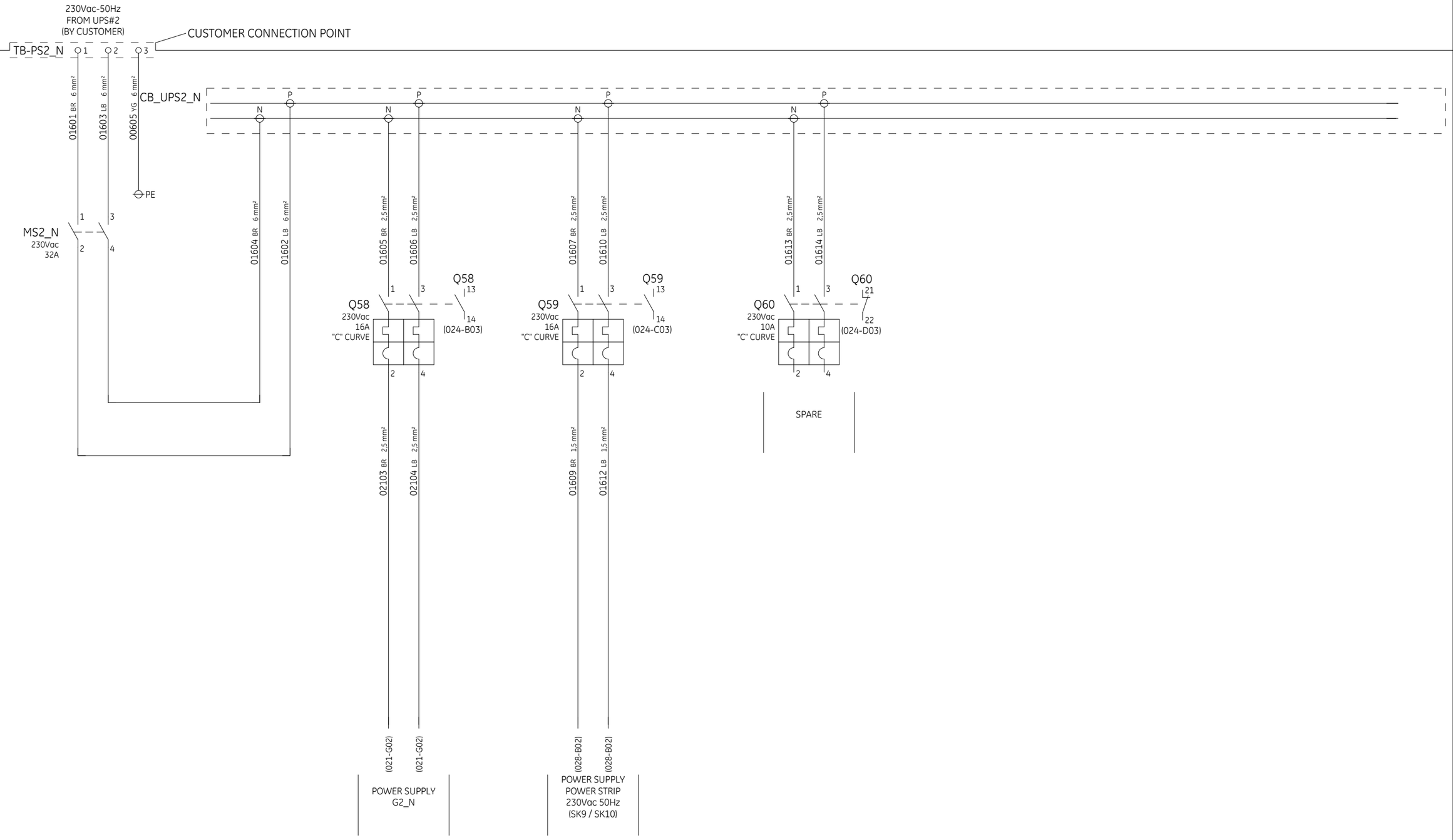
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DRAWING NO. 1724000594-IN-DG-00022

SHEET 015

REV. 2

NET PANEL - POWER DISTRIBUTION FROM UPS LINE 2



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	15.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 016

REV. 2

NET PANEL - POWER DISTRIBUTION FROM NON UPS

230Vac-50Hz
FROM MCC
(BY CUSTOMER)

CUSTOMER CONNECTION POINT

TB-PS3_N 1 2 3

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

CB_SER_N
(018-A01)

N P P N P N P N

(018-A01)
(018-A01)

01704 LB 6 mm² — 01702 BR 6 mm²

01705 BR 2.5 mm² — 01707 LB 2.5 mm²

01709 BR 2.5 mm² — 01713 LB 2.5 mm²

01714 BR 2.5 mm² — 01715 LB 2.5 mm²

Q50
230Vac
25A
Id 30mA
1 3 2 4
Q50 13 14 (024-G02)

Q51
230Vac
16A
"C" CURVE
1 3 2 4
Q51 13 14 (024-F02)

01706 BR 2.5 mm² — 01708 LB 2.5 mm²

SK1_N
<2>
PE
00605 YG 2,5 mm² — PE

SERVICE SOCKET
230Vac 50Hz

Q52
230Vac
2A
"C" CURVE
1 3 2 4
Q52 13 14 (024-E02)

01710 BR 1.5 mm²

S1_N 11 12

01711 BR 1.5 mm² — 01712 LB 1.5 mm²

H1_N x1 x2

INTERNAL LIGHT
230Vac 50Hz
TOTAL CONSUMPTION: 15W

Q53
230Vac
4A
"C" CURVE
1 3 2 4
Q53 21 22 (024-D02)

SPARE

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

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

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

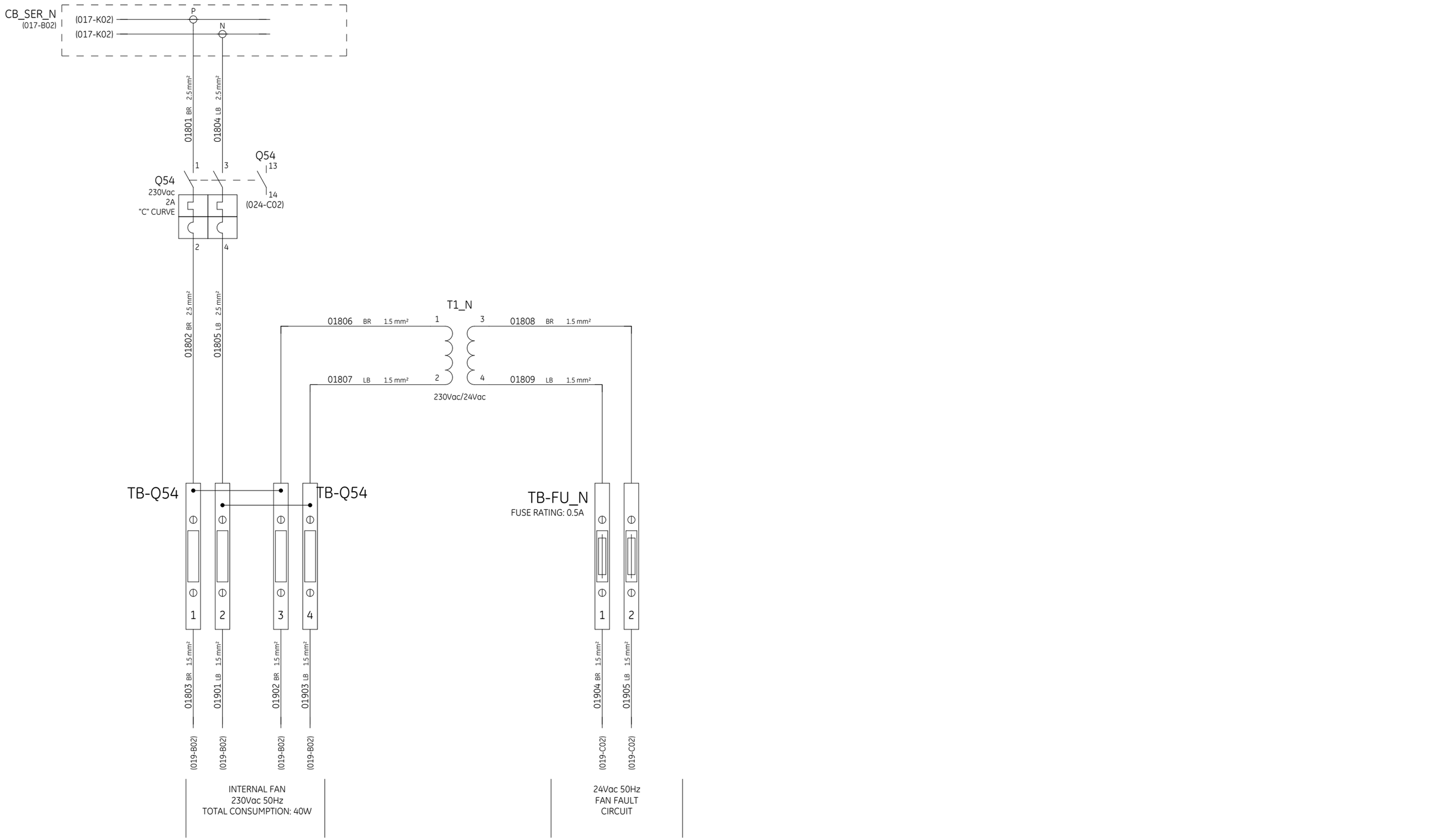
A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 017

REV. 2

NET PANEL - POWER DISTRIBUTION FROM NON UPS



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

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

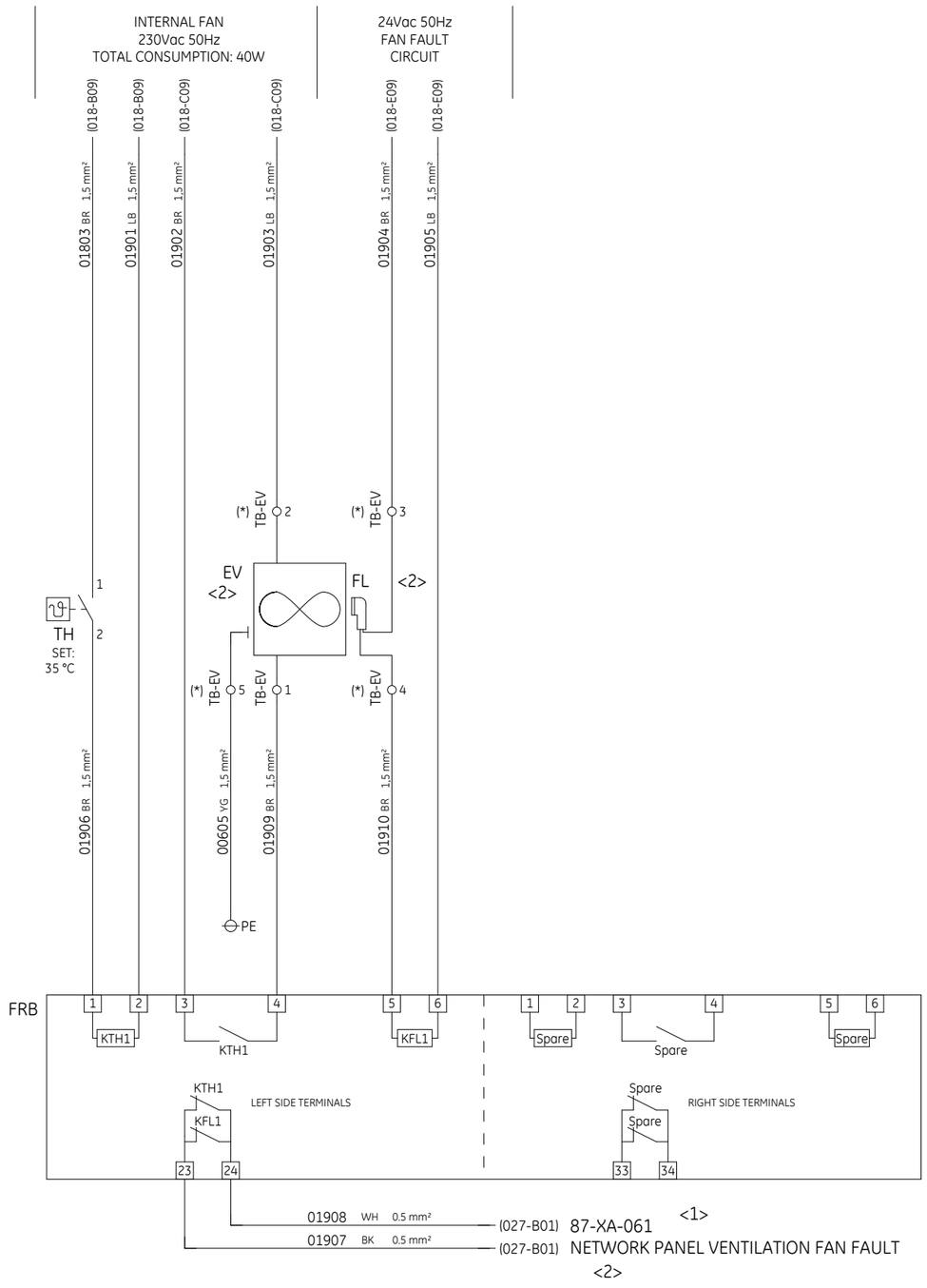
A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 018

REV. 2

NET PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN



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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	15.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 019

REV. 2

SHEET LEFT INTENTIONALLY BLANK

2	15.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 020

REV. 2

NET PANEL - 230Vac/24Vdc POWER DISTRIBUTION

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#1

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

<2> G1_N
IN: 230Vac
OUT: 24Vdc
480W
20A
WEIDMULLER PRO ECO
code 1469510000

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

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

<1>
87-XA-062
NETWORK PANEL POWER SUPPLY
24Vdc FAILURE
<2>

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

VD1
20A
WEIDMULLER PRO DM 20
code 2486080000
IN1+ IN1- IN2+ IN2- OUT+ OUT-

02108 RD 6 mm²
02111 BU 6 mm²

Q61
<2> Q61
24Vdc
32A
"C" CURVE
1 3 13 14 2 4
(024-F04)

02109 RD 6 mm²
02112 BU 6 mm²

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

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#2

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

<2> G2_N
IN: 230Vac
OUT: 24Vdc
480W
20A
WEIDMULLER PRO ECO
code 1469510000

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

<2> 02115 WH 1 mm²
00605 YG 2,5 mm² PE

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

VD2
20A
WEIDMULLER PRO DM 20
code 2486080000
IN1+ IN1- IN2+ IN1- OUT+ OUT-

02119 RD 6 mm²
02122 BU 6 mm²

Q62
<2> Q62
24Vdc
32A
"C" CURVE
1 3 13 14 2 4
(024-E04)

02120 RD 6 mm²
02123 BU 6 mm²

(022-A01)
(022-A06)

<1>
87-XA-062
NETWORK PANEL POWER SUPPLY
24Vdc FAILURE
<2>
(027-B02)

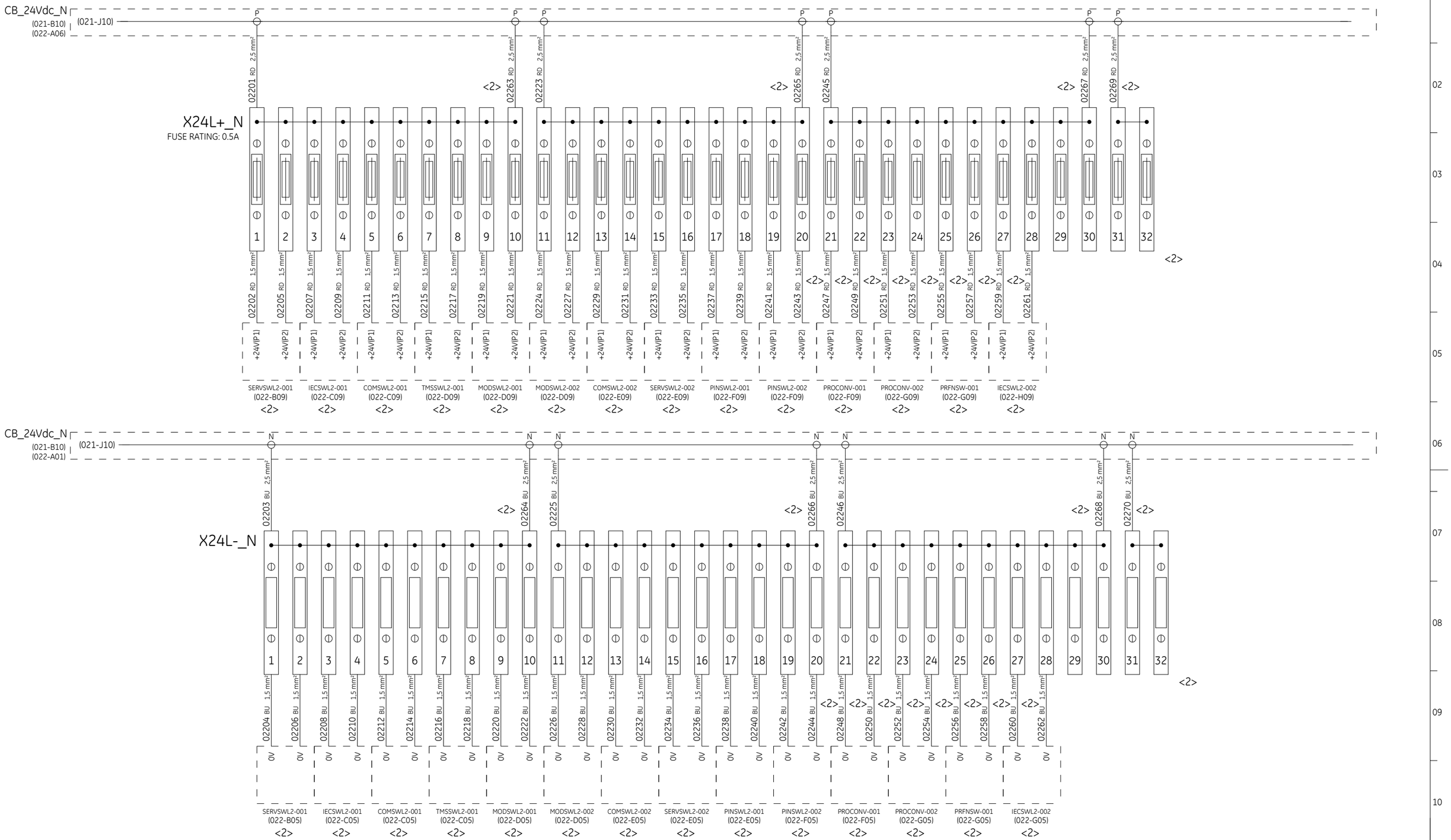
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	15.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA
PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD
CROSSWIND
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DG-00022
SHEET 021
REV. 2

NET PANEL - 230Vac/24Vdc POWER DISTRIBUTION



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

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 022

REV. 2

SHEET LEFT INTENTIONALLY BLANK

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

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

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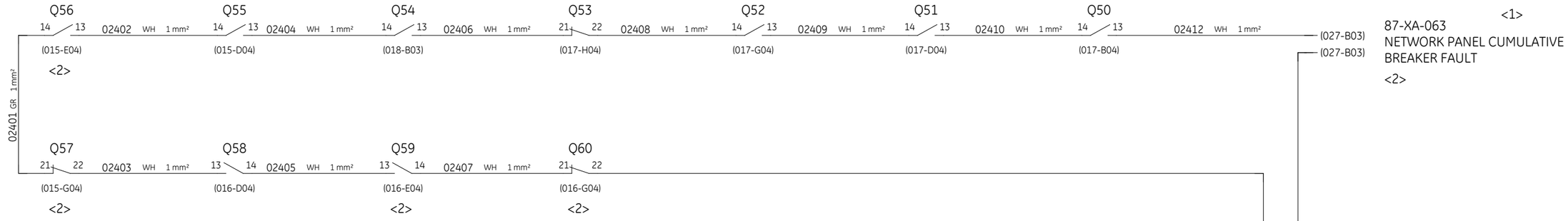
DRAWING NO. 1724000594-IN-DG-00022

SHEET 023

REV. 2

NET PANEL - BREAKER FAULT ALARM CIRCUIT <2>

230Vac CIRCUIT BREAKER



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

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

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

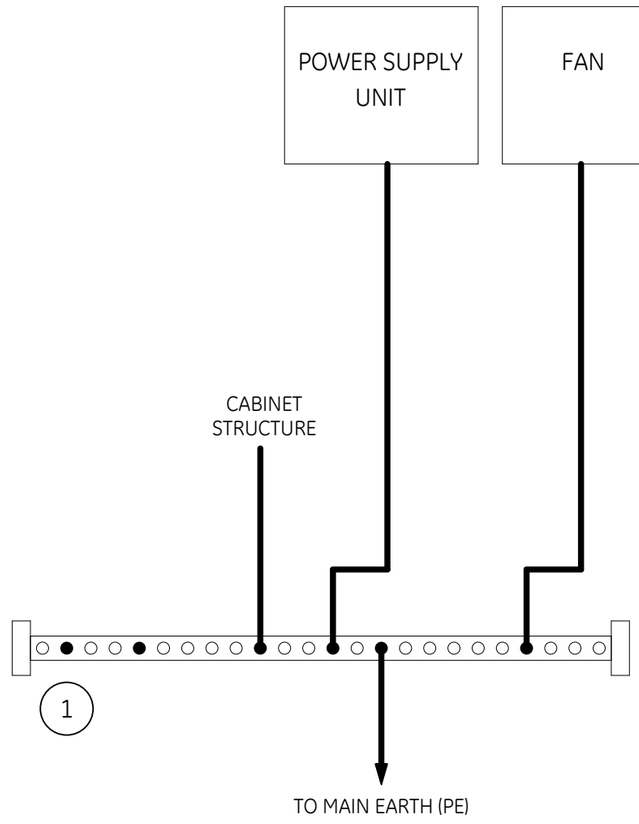
A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 024

REV. 2

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



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

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 025

REV. 2

SHEET LEFT INTENTIONALLY BLANK

2	15.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

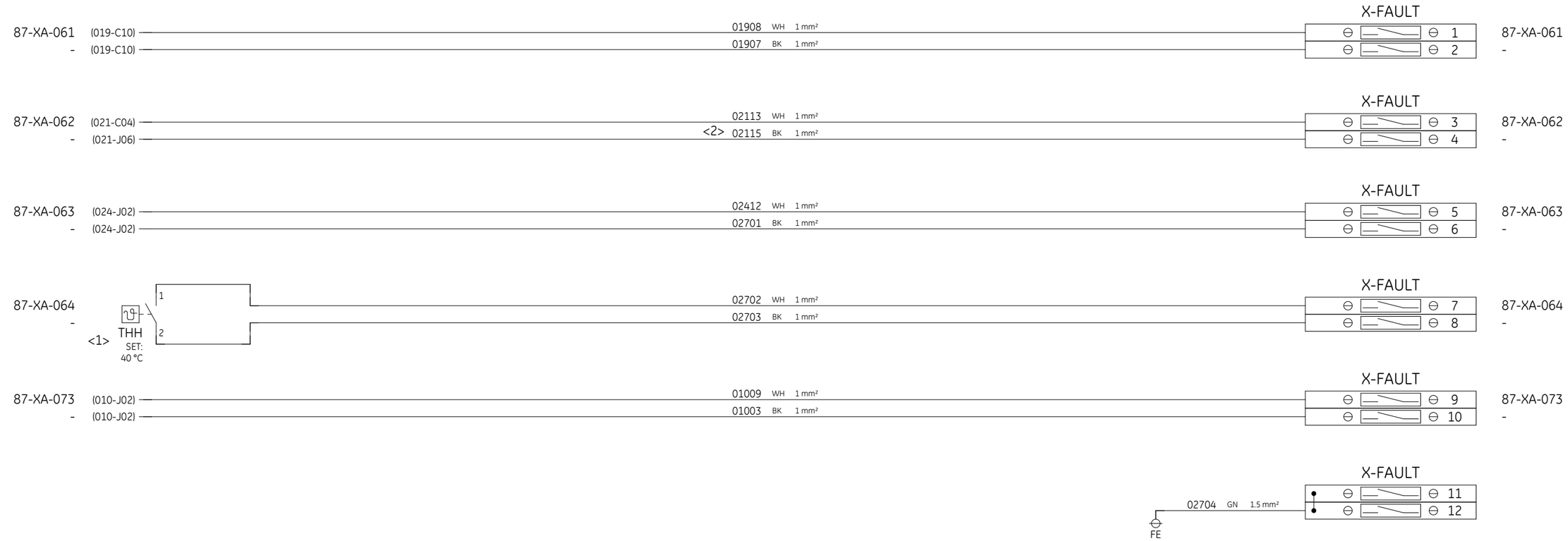
A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 026

REV. 2

NET PANEL - FAULT ALARM SIGNALS TO PCS



	CUSTOMER TAG	SIGNAL DESCRIPTION FROM IO LIST
<2>	87-XA-061	NETWORK PANEL VENTILATION FAN FAULT
<2>	87-XA-062	NETWORK PANEL POWER SUPPLY FAILURE
<2>	87-XA-063	NETWORK PANEL CUMULATIVE BREAKER FAULT
<2>	87-XA-064	NETWORK + SERVER PANEL HIGH TEMPERATURE ALARM
<2>	87-XA-073	SERVER PANEL CUMULATIVE BREAKER FAULT

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

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

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 027

REV. 2

NET PANEL - POWER STRIPS DISTRIBUTION

<2>
POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#1

<2>
POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#2

(015-E09) (015-E09) (016-E09) (016-E09)

01508 BR 2.5 mm²
01511 LB 2.5 mm²
02803 YG 2.5 mm²
PE

01509 BR 2.5 mm²
01512 LB 2.5 mm²
02804 YG 2.5 mm²
PE

01608 BR 2.5 mm²
01611 LB 2.5 mm²
02801 YG 2.5 mm²
PE

01609 BR 2.5 mm²
01612 LB 2.5 mm²
02802 YG 2.5 mm²
PE

SK7 <2>
SK8 <2>
SK9 <2>
SK10 <2>

L
N
PE
PE
1 2 3 4 5 6 7

SPARE
EMCSSVR02
EMCSSVR01
CNSWL2-002
CNSWL2-001
SNSWL2-004
SNSWL2-003
<2> FW-002 (12Vdc) POWERSUPPLY
<2> FW-004
<2> FW-003
<2> FW-006
SPARE
SPARE
SPARE
<2> FW-001 (12Vdc) POWERSUPPLY
<2> FW-005

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	15.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

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

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 028

REV. 2