BASE LOAD POWER HUB (BLPH)
EMCS CABINET
GENERAL ARRANGEMENT DRAWINGS AND INTERNAL LAYOUT

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	30.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	13.06.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_CLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
COVER PAGE

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00013

SHEET 001

REV. 3

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

PAG. NR.	REVISION									TITLE
	0	1	2	3	4	5	6	7	8	
021	X	X	X	X						BASE LOAD POWER HUB (BLPH) EMCS MAIN COMPONENT LIST
022	X	X	X	X						BASE LOAD POWER HUB (BLPH) EMCS MAIN COMPONENT LIST
023	X	X	X	X						BASE LOAD POWER HUB (BLPH) EMCS MAIN COMPONENT LIST

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

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CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
INDEX

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

SCALE : 1

A3

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SHEET 002

REV. 3

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	☐ 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	
A11	INTRINSICALLY SAFE BARRIERS/ISOLATORS	■ NO	☐ YES	
A12	SURGE ARRESTORS	■ NO	☐ YES, ONLY FOR POWER SUPPLY LINE IN	
A13	POLLUTION DEGREE	■ 2 AS PER IEC60664-1		
A14	STORAGE TEMPERATURE	-20°C TO 50°C UP TO 80% HUMIDITY		
A15	MATERIAL	■ CARBON STEEL	☐ STAINLESS STEEL AISI 304	☐ STAINLESS STEEL AISI 316

B - MECHANICAL DATA

B1	OVERALL DIMENSION	800 mm x 800 mm x 2100 mm (L x D x H) (NOTE B1)		
B2	PROTECTION DEGREE	■ IP 43	☐ IP 55	
B3	STEEL THICKNESS	■ STRUCTURE: 1.5 mm	■ DOORS: 2 mm	
B4	CABLE ENTRY	■ TOP	☐ BOTTOM	
B5	CABLE ENTRY FIXING	☐ REMOVABLE PLATES	☐ CLAMPS	■ MCT
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	250 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)
REMOVALE BOTTOM PLATES SHALL BE PROVIDED

C - PAINTING

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

D - ELECTRICAL DATA

.	SUPPLY LINE	UPS LINE 1	UPS LINE 2	NON-UPS LINE 3
D1	SUPPLY VOLTAGE	230Vac	230Vac	230Vac
D2	FREQUENCY	50Hz	50Hz	50Hz
D3	LOAD	0,7kW	0,7kW	0,6kW
D4	INTERNAL LIGHTING WITH DOOR LIMIT SWITCH OPERATION		■ FLUORESCENT (230Vac - 50Hz)	
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

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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_CLO

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
DATA SHEET

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00013

SHEET 003

REV. 3

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)	(1x1)	BLACK (BK)	N/A
DIGITAL SIGNALS (NEGATIVE)	(1x1)	WHITE (WH)	N/A
ANALOG SIGNALS (2 WIRE POSITIVE)	(1x1)	BLACK (BK)	N/A
ANALOG SIGNALS (2 WIRE NEGATIVE)	(1x1)	WHITE (WH)	N/A
ANALOG SIGNALS (3 WIRE POSITIVE)	(1x1)	BLACK (BK)	N/A
ANALOG SIGNALS (3 WIRE NEGATIVE)	(1x1)	RED (RD)	N/A
ANALOG SIGNALS (3 WIRE SIGNAL)	(1x1)	WHITE (WH)	N/A

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

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DESCRIPTION: E366772C00-EMCS_CLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
INTERNAL WIRING INFORMATION

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

SCALE : 1

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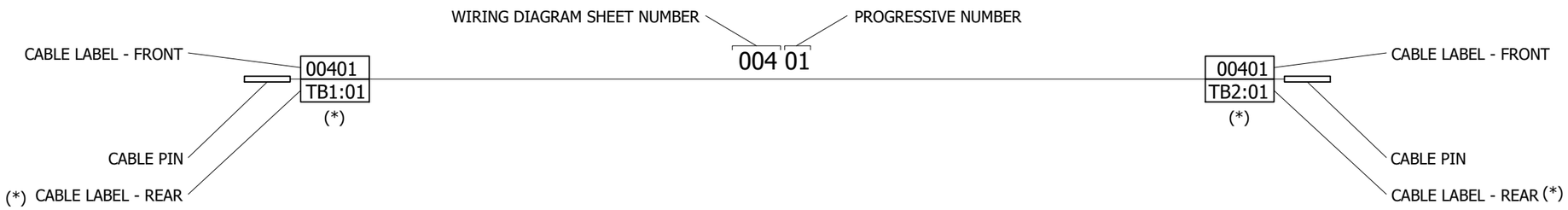
SHEET 004

REV. 3

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:

<1>

	CABINET
P.E. EARTH	○○○○○○○○○○○○○○○
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

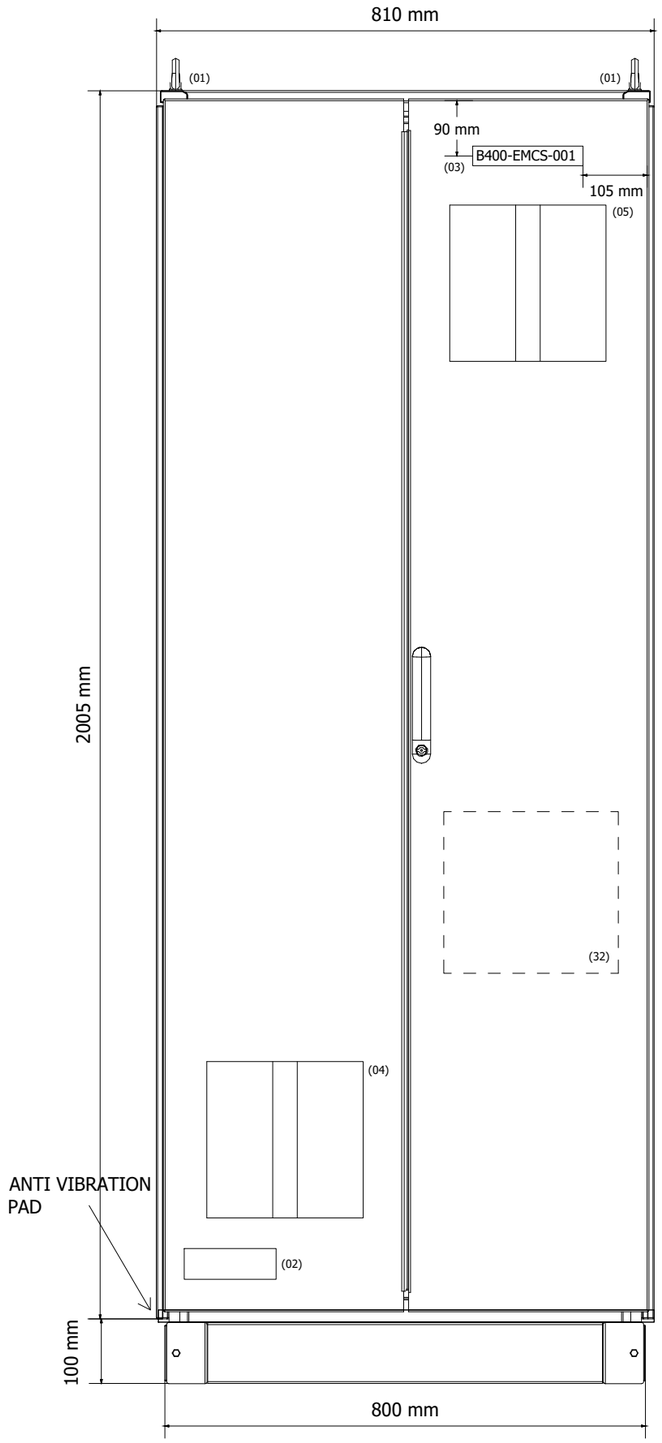
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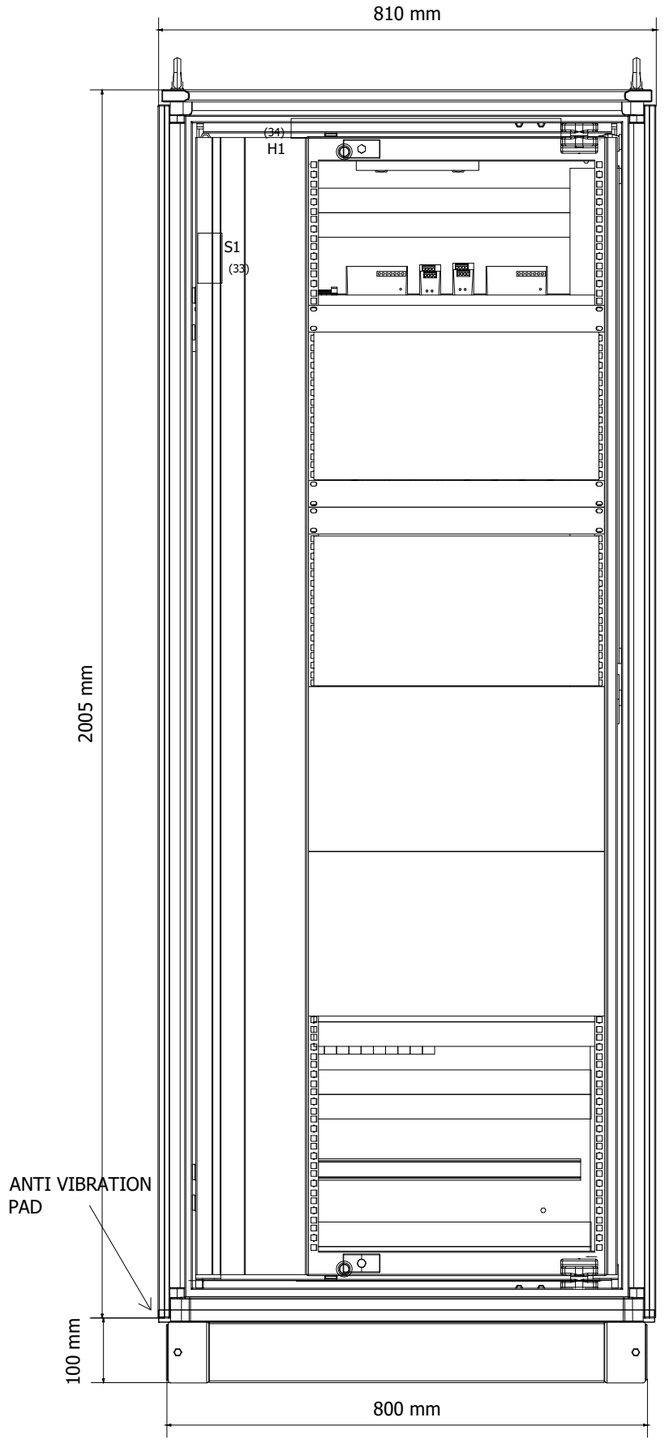
YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_CLO
CROSSWIND
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL 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-00013
SHEET 005
REV. 3

EMCS PANEL - EXTERNAL FRONT VIEW & FRONT DOOR OPENED VIEW





DRAWING SCALE 1:10

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EMCS - EXTERNAL FRONT VIEW & FRONT DOOR OPENED VIEW

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SCALE : 1

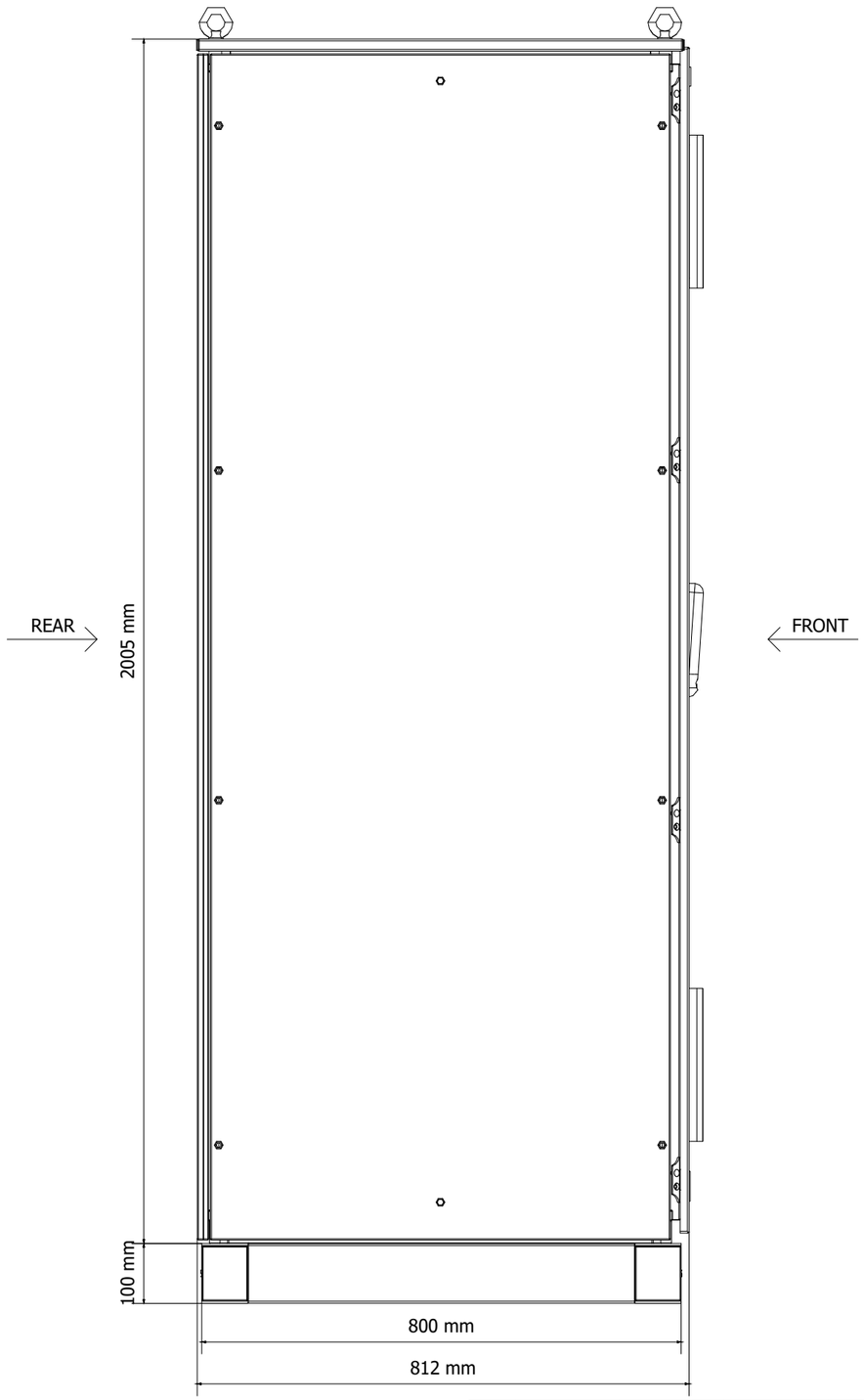
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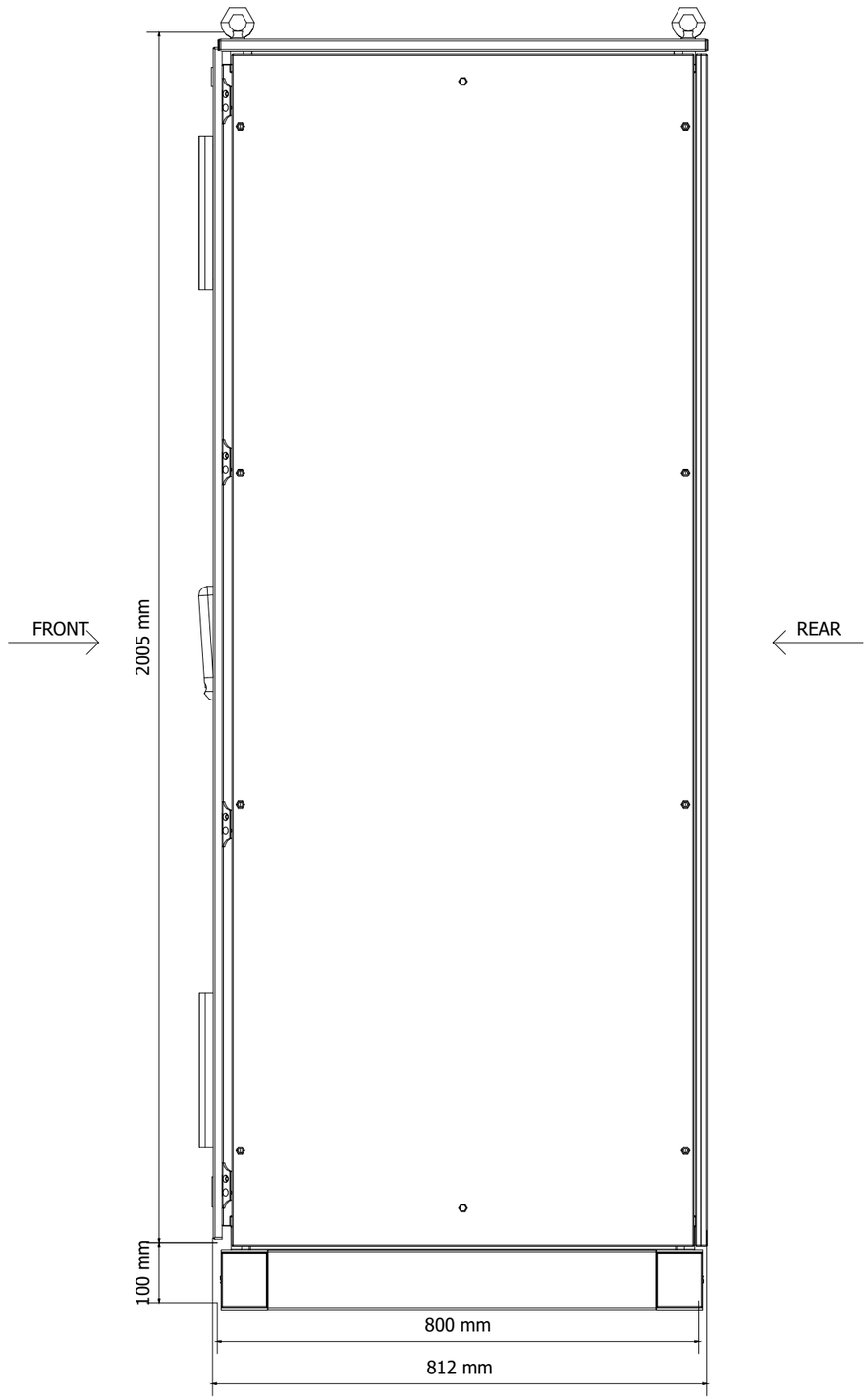
DRAWING NO. 1724000594-IN-DA-00013

SHEET 006

REV. 3

EMCS PANEL - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW





DRAWING SCALE 1:10

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EMCS - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW

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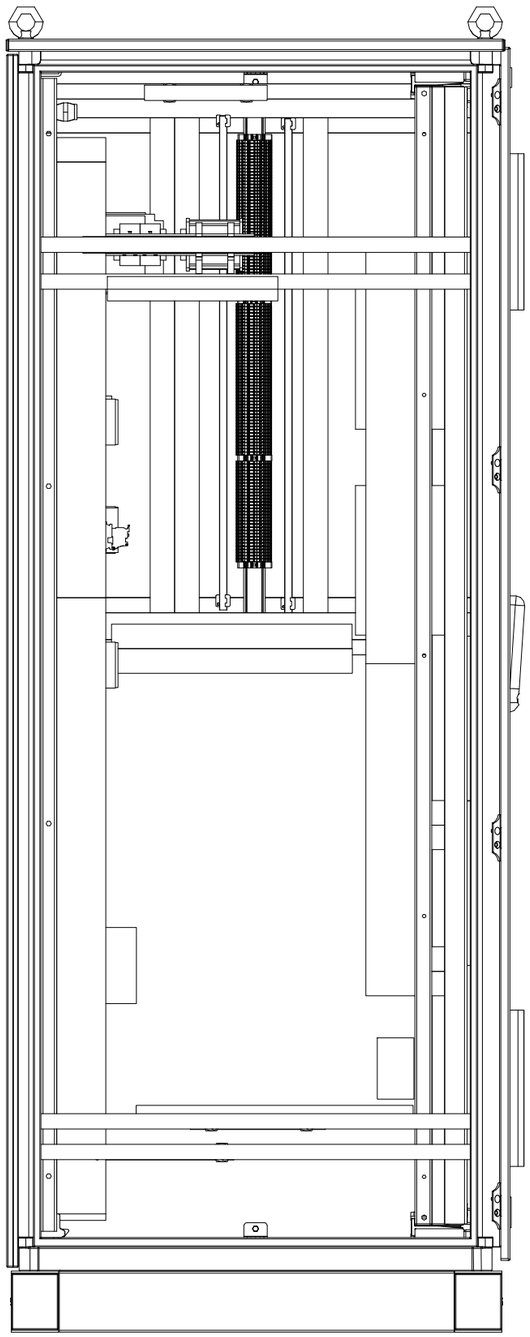
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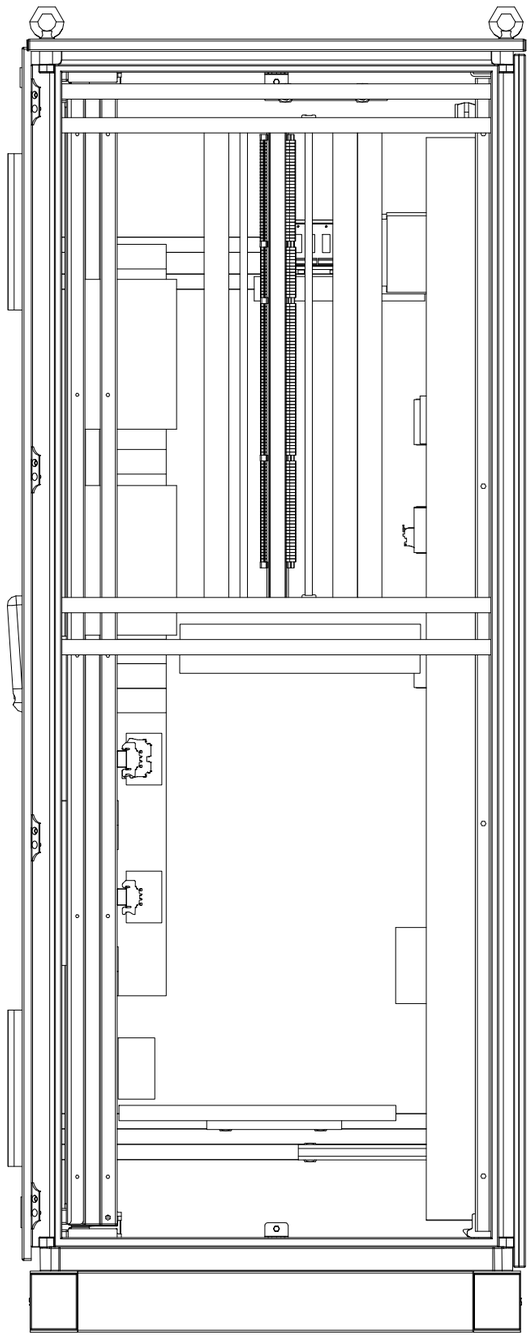
DRAWING NO.
1724000594-IN-DA-00013

SHEET 007

REV. 3

EMCS PANEL - EXTERNAL LEFT SIDE & RIGHT SIDE WHITOUT PANEL





DRAWING SCALE 1:10

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EMCS - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW WHITOUT PANEL

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

SCALE : 1

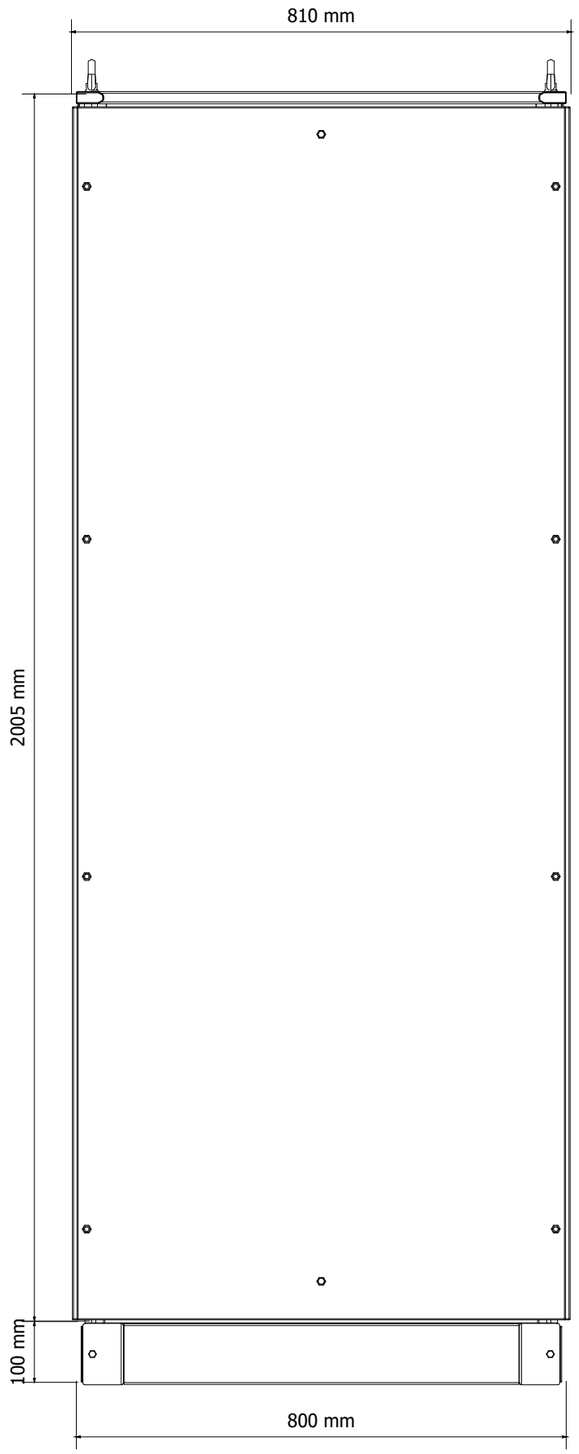
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DRAWING NO. 1724000594-IN-DA-00013

SHEET 008

REV. 3

EMCS PANEL - EXTERNAL REAR VIEW



DRAWING SCALE 1:10

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BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
EMCS - EXTERNAL REAR VIEW

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SCALE : 1

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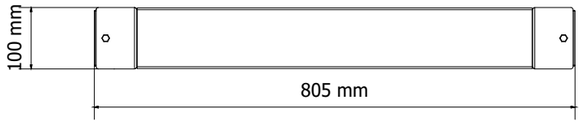
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SHEET 009

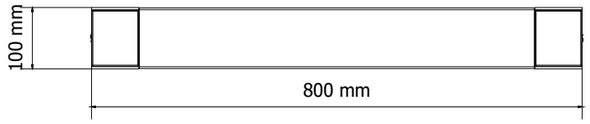
REV. 3

EMCS PANEL - BASEPLATE DETAILS

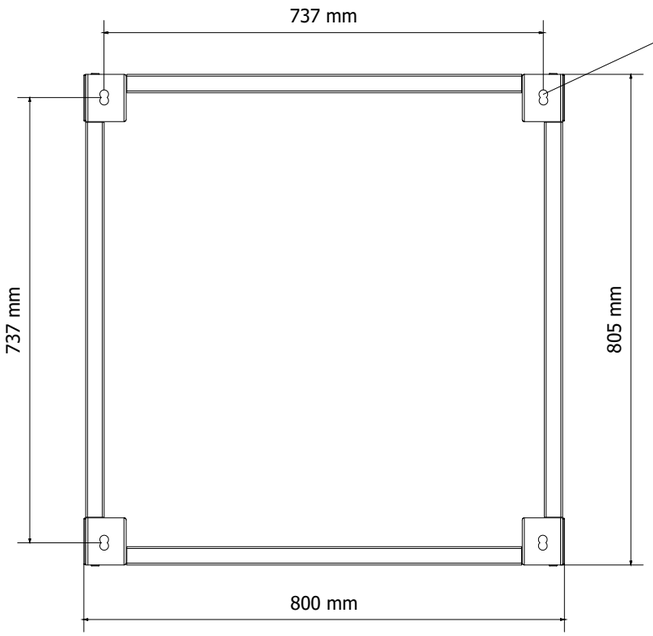
BASEPLATE SIDE VIEW



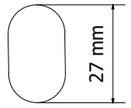
BASEPLATE FRONT VIEW



BASEPLATE BOTTOM VIEW
REAR SIDE



FRONT SIDE



DETAIL OF FIXING HOLE:

Ø 16mm

DRAWING SCALE 1:10

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_CLO

CROSSWIND

ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
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TITLE : BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
EMCS - BASEPLATE DETAILS

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

SCALE : 1

A3

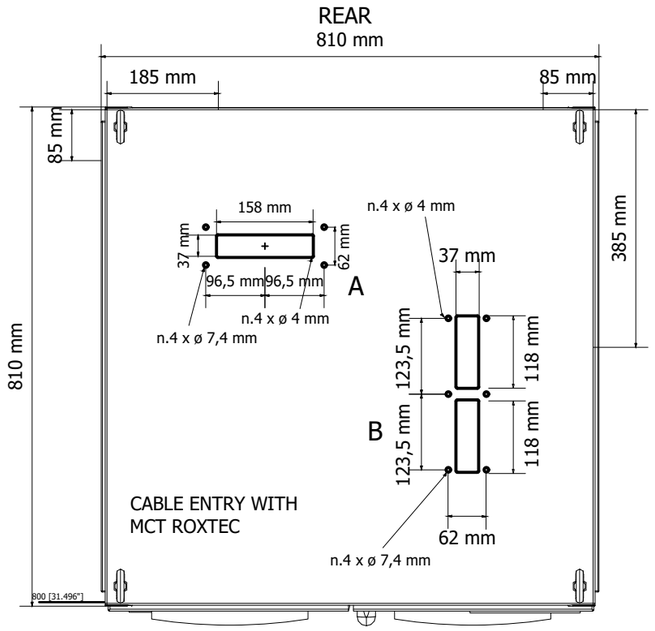
DRAWING NO. 1724000594-IN-DA-00013

SHEET 010

REV. 3

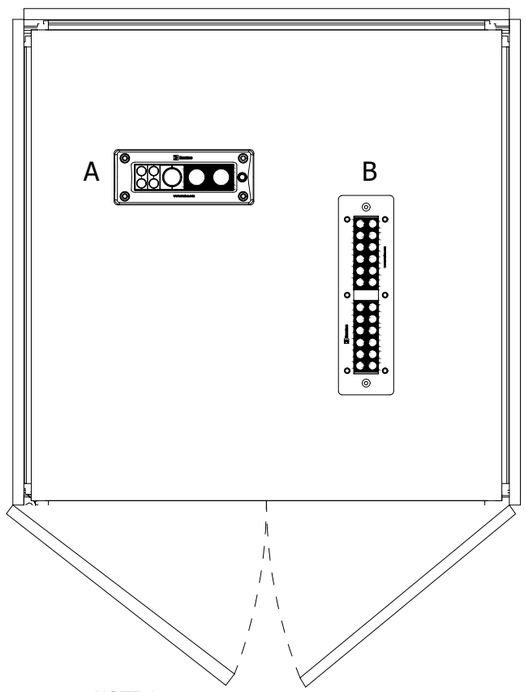
EMCS PANEL - EXTERNAL & INTERNAL TOP VIEW

EXTERNAL TOP VIEW

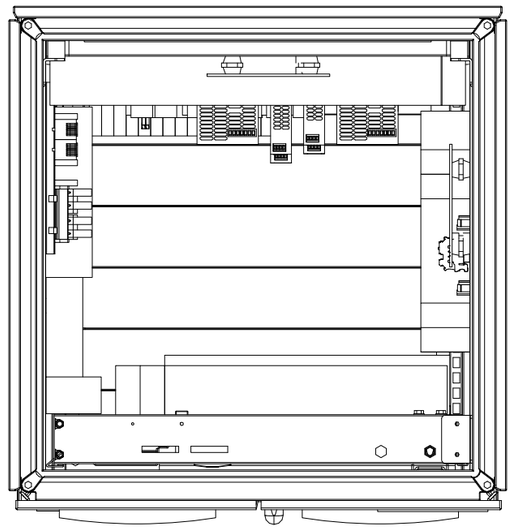


CABLE TAG	CABLE TYPE	OUTER CABLE DIAMETER (mm)	MCT SIZE	LOCATION
84305-CEL	3G2.5	15.5	40x40	A
84306-CEL	3G2.5	15.5	40x40	A
83106-CEL	3G2.5	13	20x40	A
85002-CEC	7CX1.5			
B400-NET1-E8	7CX1.5			
B400-NET1-E9	7CX1.5			
B400-NET1-E17	7CX1.5			
B400-NET1-E19	7CX1.5			

EXTERNAL TOP VIEW (DOOR OPEN)



INTERNAL TOP VIEW



NOTE 1: DOOR LOCK AT 110°

DRAWING SCALE 1:10

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_CLO

CROSSWIND | ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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TITLE : BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
EMCS- EXTERNAL & INTERNAL TOP VIEW

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

SCALE : 1

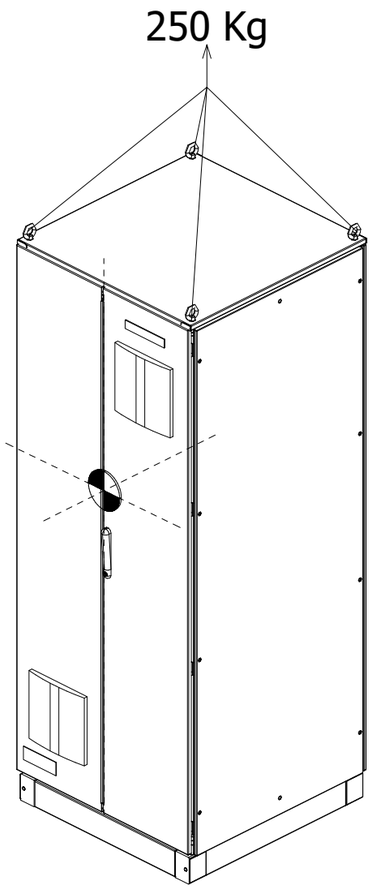
A3

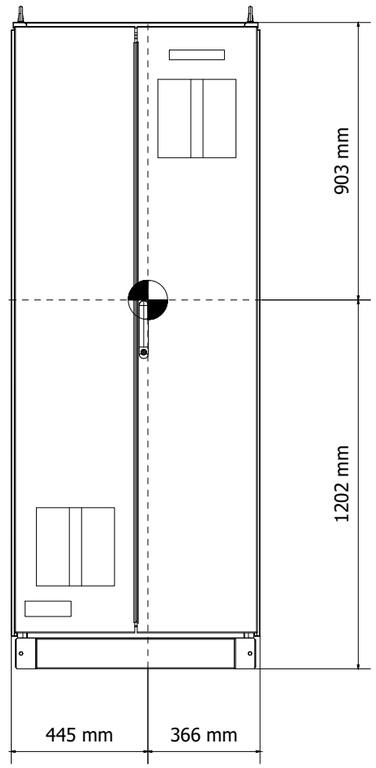
DRAWING NO. 1724000594-IN-DA-00013

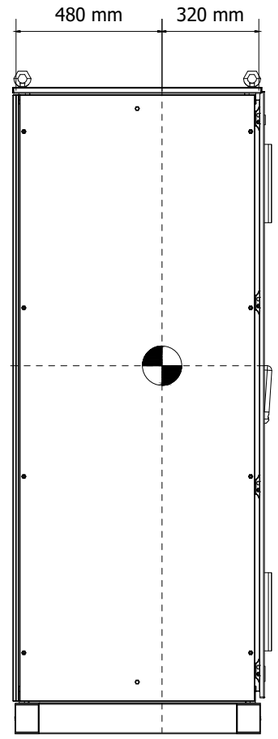
SHEET 011

REV. 3

EMCS PANEL - LIFTING DETAILS







= CENTER OF GRAVITY

DRAWING SCALE 1:20
ALL QUOTES SHOWN ARE APPROXIMATE VALUE

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

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
EMCS - LIFTING DETAILS

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

SCALE : 1

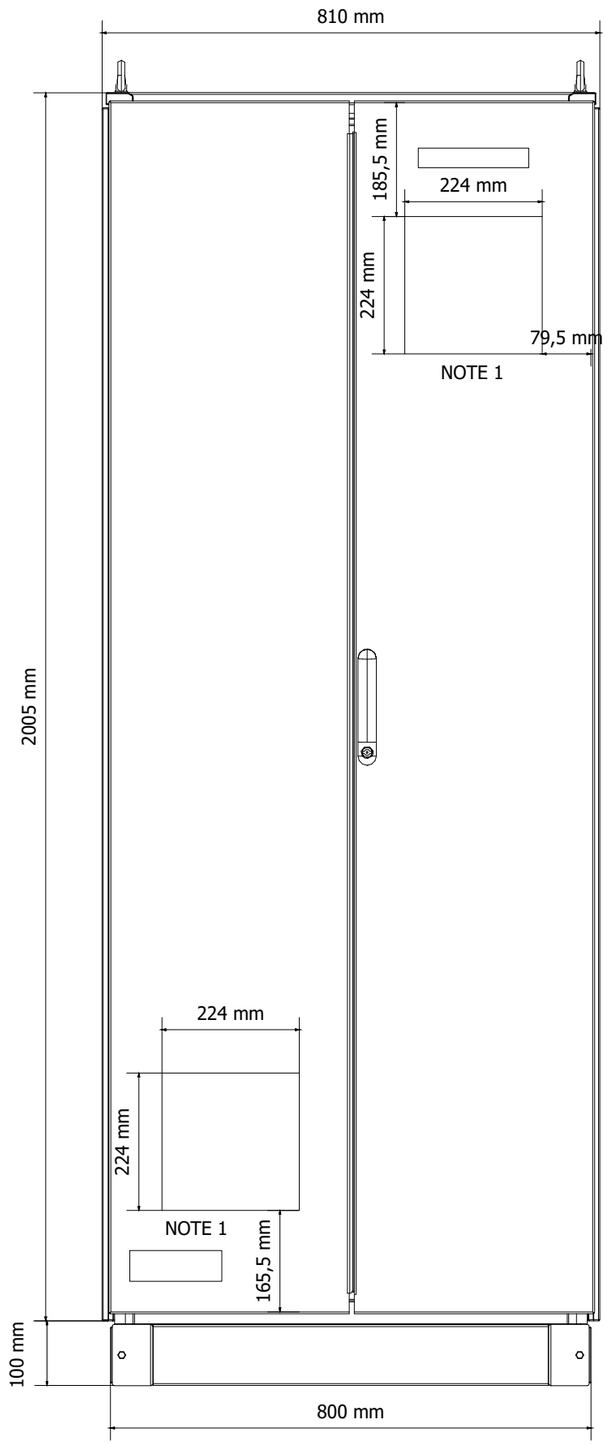
A3

DRAWING NO.
1724000594-IN-DA-00013

SHEET 012

REV. 3

EMCS PANEL - FRONT DOOR CUT-OUT DETAILS



NOTE 1 : CUT-OUT FOR AIR VENTILATION FILTER

DRAWING SCALE 1:10

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

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
EMCS - FRONT DOOR CUT-OUT DETAILS

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

SCALE : 1

A3

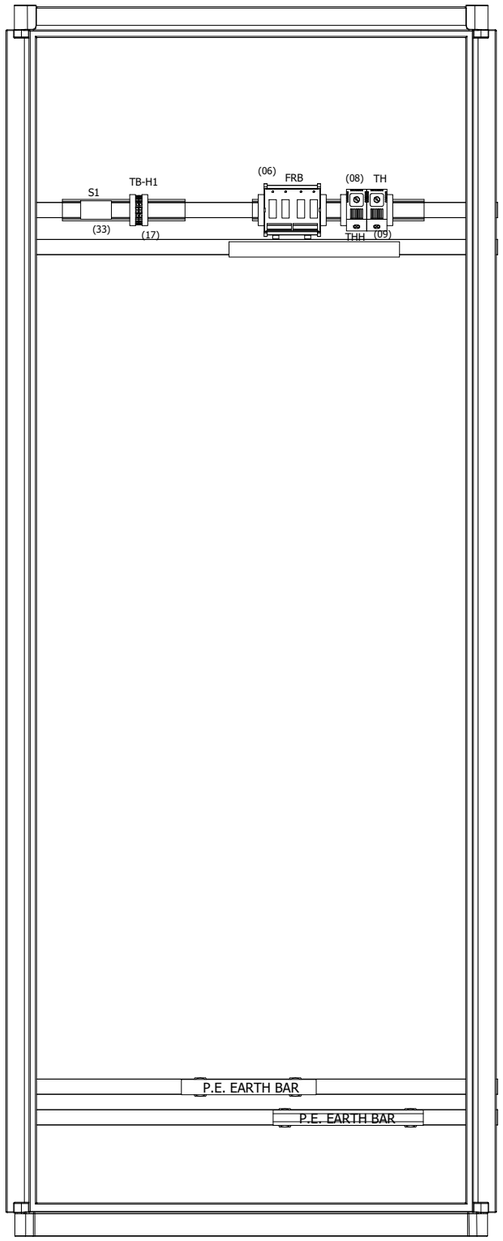
DRAWING NO.
1724000594-IN-DA-00013

SHEET 013

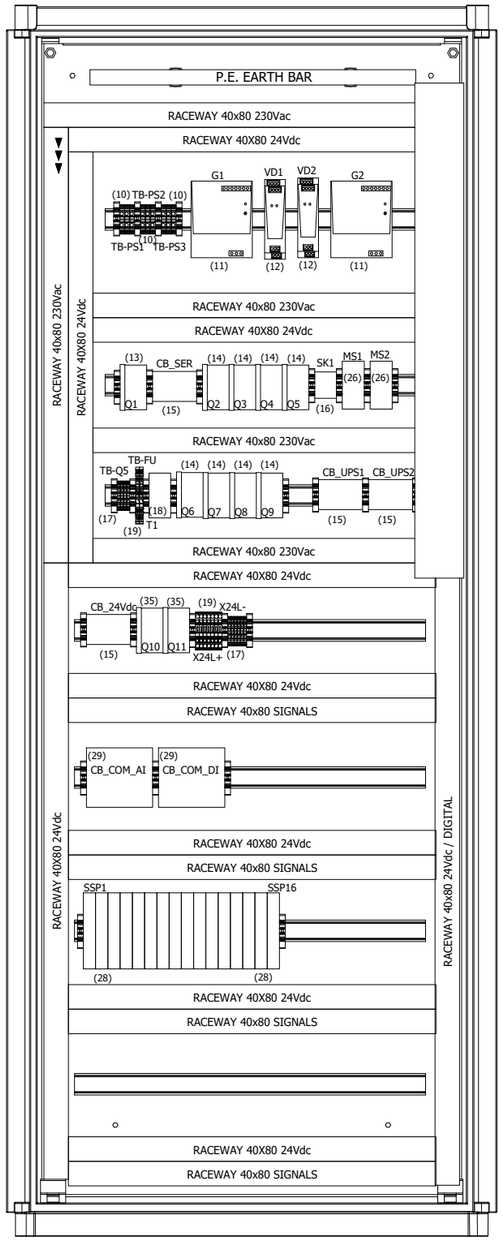
REV. 3

EMCS PANEL - FRONT SIDE INTERNAL VIEW

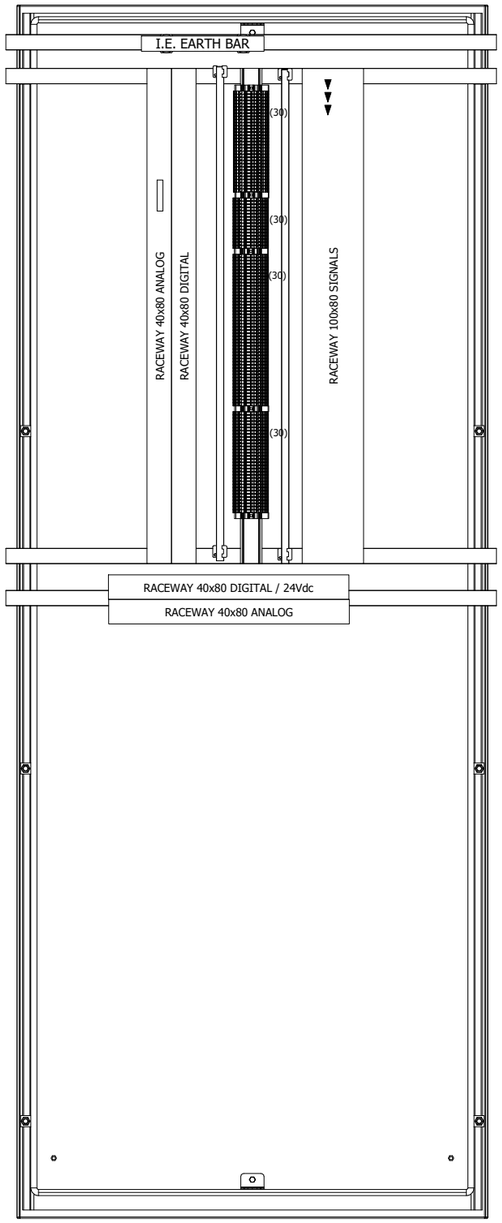
LEFT SIDE



FRONT PLATE



RIGHT SIDE



DRAWING SCALE 1:10

= CABLE ENTRY

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_CLO

CROSSWIND

ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
EMCS - FRONT SIDE INTERNAL VIEWS

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DA-00013

SHEET 014

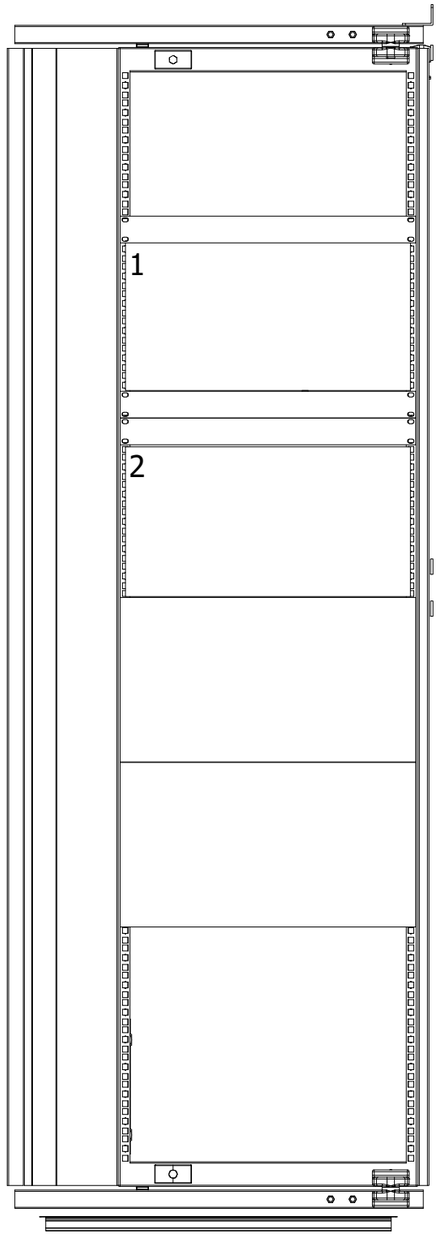
REV. 3

EMCS PANEL - FRONT SIDE SWING RACK INTERNAL VIEW

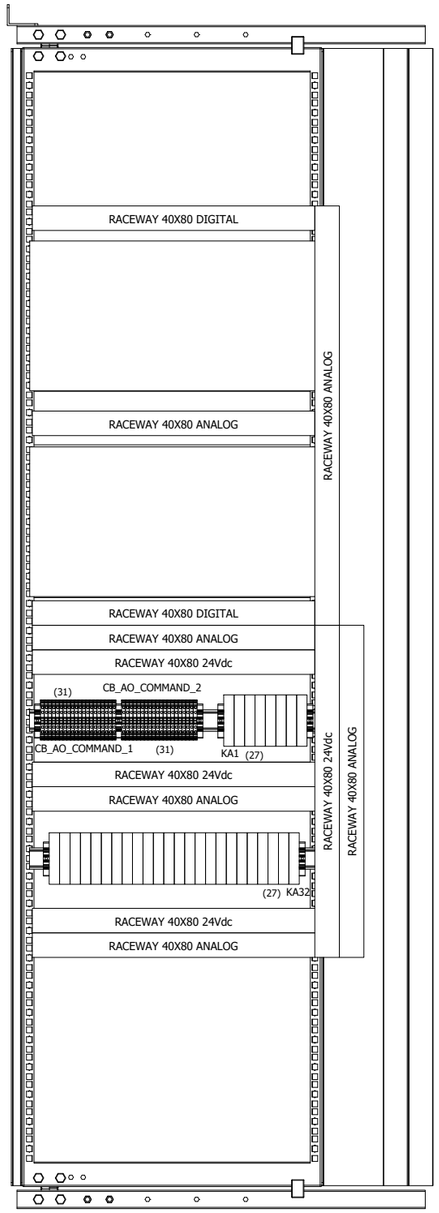
DEVICE "1"
(07) -N: 1 SEL-2241
(21) -N: 1 SEL-2243
(22) -N: 1 SEL-2245-2
(23) -N: 1 SEL-2245-3
(24) -N: 1 SEL-2244-2
(25) -N: 1 SEL-2244-3

DEVICE "2"
(07) -N: 1 SEL-2241
(21) -N: 1 SEL-2243
(22) -N: 1 SEL-2245-2
(23) -N: 1 SEL-2245-3
(24) -N: 1 SEL-2244-2
(25) -N: 1 SEL-2244-3

FRONT RACK



REAR RACK



DRAWING SCALE 1:10

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

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
EMCS - FRONT SIDE INTERNAL VIEWS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00013

SHEET 015

REV. 3

SHEET LEFT INTENTIONALLY BLANK

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_CLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
EMCS - SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00013

SHEET 016

REV. 3

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-EMCS_CLO

CROSSWIND | ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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TITLE : BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
BH AND MANUFACTURER LABEL DETAILS

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

A3 | DRAWING NO. 1724000594-IN-DA-00013 | SHEET 017 | REV. 3

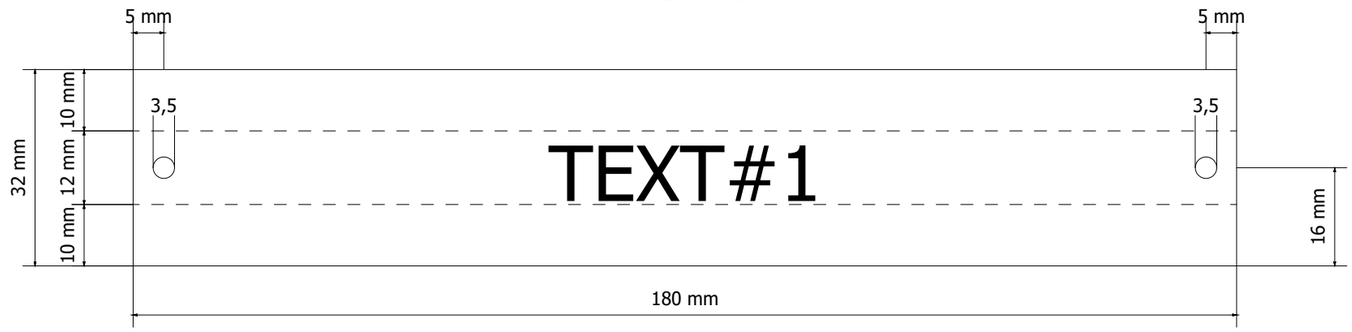
EMCS PANEL - SECTION IDENTIFIER NAMEPLATE DETAILS

TYPICAL 02

LABEL FOR SECTION IDENTIFIER ITEM (03)

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

TYPICAL 02



CABINET	TEXT#1
EMCS	B400-EMCS-001

DRAWING SCALE 1:1

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_CLO

CROSSWIND | ROSETTI MARINO

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TITLE : BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
EMCS 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-00013

SHEET 018

REV. 3

SHEET LEFT INTENTIONALLY BLANK

DRAWING SCALE 1:1

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_CLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00013

SHEET 019

REV. 3

CERTIFICATION LABELS DETAILS

TYPICAL 05

LABEL FOR ITEM IDENTIFIER : ITEM (25)

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

PROGETTAZIONE E
REALIZZAZIONI
INDUSTRIALI

CE

22040 ALZATE BRIANZA (CO) ITALY Via Pascoli 150 Ph. +39031631875 website : www.prei.it

PREI JOB/SN: C\5529 CONSTRUCTION YEAR: 2024

CUSTOMER PURCHASE ORDER: 4511988955

CUSTOMER JOB N°: E366772C00

REFERENCE DRAWINGS : 1724000594-IN-DA-00013 - OUTLINE DRAWING

1724000594-IN-DG-00024 - SCHEMATIC DRAWING

Line 1: VOLTAGE 230 Vac / 50 Hz Line 1: CURRENT 3A

Line 1: SHORT CIRCUIT CURRENT RATING: 10kA

Line 2: VOLTAGE 230 Vac / 50 Hz Line 2: CURRENT 3A

Line 2: SHORT CIRCUIT CURRENT RATING: 10kA

Line 3: VOLTAGE 230 Vac / 50 Hz Line 3: CURRENT 2,6A

Line 3: SHORT CIRCUIT CURRENT RATING: 10kA

PANEL PROTECTION DEGREE IP43

PANEL OPERATING TEMPERATURE RANGE: +5-+45°C

DRAWING SCALE 1:1
ALL QUOTES SHOWN ARE IN MILLIMETERS

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

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
CERTIFICATION LABEL

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00013

SHEET 020

REV. 3

EMCS PANEL COMPONENT LIST

POS.	DESCRIPTION	MANUFACTURER TYPE & MODEL	SHIPPING BOM MARK	Q.TY	NAMEPLATE
01	REMOVABLE LIFTING LUGS -	MANUFACTURER STANDARD	NA001_01	4	MECHANICAL PART NAMEPLATE NOT REQUIRED
02	CABINET MANUFACTURER LABEL -	MANUFACTURER STANDARD	NA001_02	1	DETAILS ON SHEET 027 TYPICAL 02
03	SECTION IDENTIFICATION LABEL -	MANUFACTURER STANDARD	NA001_03	1	DETAILS ON SHEET 028 TYPICAL 03
04	AIR INLET FILTER -	AUGER STANDARD	NA001_04	1	MECHANICAL PART NAMEPLATE NOT REQUIRED
05	FRONT-MOUNTED AIR EXTRACTOR FAN (SUPPLIED WITH AIR FILTER) -	AUGER STANDARD	NA001_05	1	EV1 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
06	PRE-ASSEMBLED RELAY BOARD FOR FAN FAULT CIRCUIT -	PREI	NA001_06	1	FRB (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
07	RTAC SEL 2241 CHASSIS/BACKPLANE	SEL	NA001_07	2	AXION1 - AXION2 EXTERNAL LABEL NOT REQUIRED
08	THERMOSTAT FOR FAN ON/OFF CIRCUIT -	MANUFACTURER STANDAR	NA001_08	1	TH (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
09	THERMOSTAT FOR HIGH TEMPERATURE ALARM -	MANUFACTURER STANDARD	NA001_09	1	THH (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
10	FEED-THROUGH TYPE TERMINAL SCREW TYPE - GREY COLOUR - SECTION 6mm²	PHOENIX CONTACT UT 6	NA001_10	9	TB-PS1 ÷ TB-PS3 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
11	POWER SUPPLY FEEDER MODULE INPUT 230Vac (AUTO-RANGING) - OUTPUT 24Vdc-20a	WEIDMULLER QUINT4-PS/1AC/24DC/20 WDM.1469510000	NA001_11	2	G1 ÷ G2 (INTERNAL LABEL) EXTERNAL LABLE NOT REQUIRED
12	DECOUPLING & PROTECTIVE DIODE FOR REDUNDANCY - 24Vdc -	WEIDMULLER PRO DM 20 WDM.2486080000	NA001_12	2	VD1 - VD2 (INTERNAL LABEL) EXTERNAL LABLE NOT REQUIRED
13	PURE Id CIRCUIT BREAKER WITH AUXILIARY CONTACT 2 POLES - 240Vac - 50Hz - 25A - Id: 30mA	EATON FAZ SERIES	NA001_13	1	Q1 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
14	AUTOMATIC MAGNETO-THERMAL CIRCUIT BREAKER - 115Vac / 240Vac WITH AUXILIARY CONTACT	EATON FAZ SERIES	NA001_14	8	Q2 ÷ Q9 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED

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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_CLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
EMCS MAIN COMPONENT LIST

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00013

SHEET 021

REV. 3

EMCS PANEL COMPONENT LIST

POS.	DESCRIPTION	MANUFACTURER TYPE & MODEL	SHIPPING BOM MARK	Q.TY	NAMEPLATE
15	2 POLES COMMON BOX - 7 CONNECTION EACH POLE -	CABUR QBLOCK SERIES	NA001_15	4	CB_SER - CB_24Vdc - CB_UPS1 - CB_UPS2 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
16	SERVICE SOCKET INCLUDING SOCKET DIN MOUNTING KIT	MANUFACTURER STANDARD	NA001_16	1	SK1 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
17	DISTRIBUTION TERMINALS - SCREW TYPE - SECTION 2.5mm² FEED THROUGH TYPE - GREY COLOUR	PHOENIX CONTACT UT 2.5 PXC.3044076	NA001_17	13	TB-H1 - TB-Q5 - X24L- (INTERNAL LABLE) EXTERNAL LABEL NOT REQUIRED
18	TRASFORMER 240Vac / 24Vac - 50Hz - 10VA -	ABB TM10/24 EA2616	NA001_18	1	T1 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
19	TERMINALS - SCREW TYPE - SECTION 4mm² FUSE DISCONNECT TYPE - BLACK COLOUR	PHOENIX CONTACT UT 4 HESI PXC.3046032	NA001_19	9	TB-FU - X24L+ (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
20			NA001_20		
21	RTAC SEL 2243 POWER COUPLER MODULE	SEL	NA001_21	2	T.B.D. EXTERNAL LABEL NOT REQUIRED
22	RTAC SEL 2245-2 ANALOG INPUT MODULE	SEL	NA001_22	2	T.B.D. EXTERNAL LABEL NOT REQUIRED
23	RTAC SEL-2245-3 ANALOG OUTPUT MODULE	SEL	NA001_23	2	T.B.D. EXTERNAL LABEL NOT REQUIRED
24	RTAC SEL-2244-2 DIGITAL INPUT MODULE	SEL	NA001_24	2	T.B.D. EXTERNAL LABEL NOT REQUIRED
25	RTAC SEL-2244-3 DIGITAL OUTPUT MODULE	SEL	NA001_25	2	T.B.D. EXTERNAL LABEL NOT REQUIRED
26	ROTATIVE MAIN SWITCH - 230Vac - 50Hz - 32A -	LOVATO LOGA032A	NA001_26	2	MS1 - MS2 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
27	MODULAR STEP RELAYS 16 A -	FINDER 202290240000	NA001_27	32	KA1 ÷ KA32 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
28	SIGNAL SPLITTER -	PEPPERL+FUCHS KFD2-STC5-1.2O	NA001_28	16	SSP1 ÷ SSP16 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	30.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	13.06.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_CLO

CROSSWIND ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS. CABINET IN ITER GEN. ARR. DRW. AND INTERNAL LAYOUT
EMCS MAIN COMPONENT LIST

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00013

SHEET 022

REV. 3

EMCS PANEL COMPONENT LIST

POS.	DESCRIPTION	MANUFACTURER TYPE & MODEL	SHIPPING BOM MARK	Q.TY	NAMEPLATE
29	2 POLES COMMON BOX - 60 CONNECTION EACH POLE -	CABUR QBLOCK SERIES	NA001_29	2	CB_COM_AI - CB_COM_DI (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
30	SCREW TYPE TERMINALS - SECTION 2,5 KNIFE DISCONNECTING TYPE - GREY COLOUR	PHOENIX CONTACTS UT 2,5 MT PXC.3046362	NA001_30	128	TB_AI - TB_AO - TB_DI - TB_DO EXTERNAL LABEL NOT REQUIRED
31	SCREW TYPE TERMINALS - SECTION 2,5 FEED THROUGH TYPE - GREY COLOUR	PHOENIX CONTACTS UT 2,5 QUATRO PXC.3044542	NA001_31	40	CB_AO_COMMAND_1 - CB_AO_COMMAND_2 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
32	DRAWING POCKET - GREY COLOUR -	MANUFACTURER STANDARD	NA001_32	1	EXTERNAL LABEL NOT REQUIRED -
33	INTERNAL LIGHT -	MANUFACTURER STANDARD	NA001_33	1	H1 -
34	INTERNAL LIGHT SWITCH -	MANUFACTURER STANDARD	NA001_34	1	S1 -
35	AUTOMATIC MAGNETO-THERMAL CIRCUIT BREAKER - 24Vdc WITH AUXILIARY CONTACT	EATON FAZ SERIES	NA001_35	2	Q10 ÷ Q11 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
36	- -	-	NA001_36	-	- -
37	- -	-	NA001_37	-	- -
38	- -	-	NA001_38	-	- -
39	- -	-	NA001_39	-	- -
40	- -	-	NA001_40	-	- -
41	- -	-	NA001_41	-	- -
42	- -	-	NA001_42	-	- -

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
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A3

DRAWING NO.
1724000594-IN-DA-00013

SHEET 023

REV. 3