BASE LOAD POWER HUB (BLPH)

"SG-200D2" LV SWBD 800V

ELECTRICAL FUNCTIONAL DIAGRAM

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
3	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
2	10/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for Construction (AFC)
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DWG n°: 231298/SD/32
Item n°: PF1002669/3

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"
FUNCTIONAL DIAGRAM
Cover

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

SHEET 001

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

INDEX SHEETS

Sheet	Description	Revision 0	1	2	3	4	5	6	7	8	9
001	Cover	X	X	X	X						
002	Index	X	X	X	X						
003	Graphical Symbols	X	X	X	X						
004	Graphical Symbols	X	X	X	X						
005	Door Layout	X	X	X	X						
006	Selector Switch Diagram	X	X	X	X						
007	Functional Drawing	X	X	X	X						
008	Functional Drawing	X	X	X	X						
009	Functional Drawing	X	X	X	X						
010	Functional Drawing	X	X	X	X						
011	Functional Drawing	X	X	X	X						
012	Functional Drawing	X	X	X	X						
013	Functional Drawing	X	X	X	X						
014	Functional Drawing	X	X	X	X						
015	Functional Drawing	X	X	X	X						
016	Functional Drawing	X	X	X	X						
017	Functional Drawing	X	X	X	X						
018	Functional Drawing	X	X	X	X						
019	Functional Drawing	X	X	X	X						
020	Functional Drawing	X	X	X	X						
021	Terminal Block	X	X	X	X						
022	Bill of Materials	X	X	X	X						
023	Bill of Materials	X	X	X	X						
024	Bill of Materials	X	X	X	X						

Sheet	Description	Revision 0	1	2	3	4	5	6	7	8	9

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IMESA ELECTRICAL ENGINEERING

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CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"

FUNCTIONAL DIAGRAM

Index

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

SCALE : NTS

A3

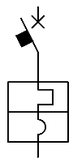
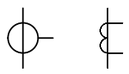
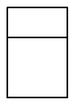
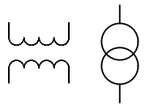
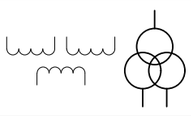
DRAWING NO. 1723002197-EL-DG-00032

SHEET 002

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION
	**CIRCUIT BREAKER WITH AUTOMATIC RELEASE**		**CAPACITOR (GENERAL SYMBOL)**		**BISTABLE RELAY**		**CHANGE-OVER BREAK BEFORE MAKE CONTACT**
	**CIRCUIT BREAKER WITH AUTOMATIC RELEASE AND BUILT-IN THERMOMAGNETIC RELEASE**		**CAPACITIVE VOLTAGE DIVIDER**		**COIL OF A MECHANICALLY LATCHED RELAY**		**DELAYED ACTION (IN THE DIRECTION OF MOVEMENT FROM THE ARC TOWARDS ITS CENTRE)**
			**CURRENT TRANSFORMER**		**INDICATOR, ELECTROMECHANICAL ELEMENT**		POSITION SWITCH (LIMIT SWITCH), MAKE CONTACT
	**SWITCH DISCONNECTOR**		RING CURRENT TRANSFORMER		**LAMP (GENERAL SYMBOL)**		**POSITION SWITCH (LIMIT SWITCH), MAKE CONTACT**
	**CONTACTOR**		**INDICATING INSTRUMENT GENERAL SYMBOL**		**SEMICONDUCTOR DIODE**		POSITION SWITCH (LIMIT SWITCH), BREAK CONTACT
	LOCK WITH FREE KEY WHEN THE DEVICE IS IN OPEN POSITION		**INTEGRATING INSTRUMENT (GENERAL SYMBOL)**		**LED**		**OPERATED BY TURNING**
	**LOCK WITH FREE KEY WHEN THE DEVICE IS IN CLOSE POSITION**		**DISCONNECTING FUSE, NOT WITH LIVE CIRCUIT AND WITH MECHANICAL LINKAGE (STRIKER FUSE))**		**TRANSDUCER OF ALTERNATING CURRENT MEASURE INTO DIRECT CURRENT SIGNAL**		**THREE HELD POSITIONS TURNING SWITCH**
	PLUG AND SOCKET (MALE AND FEMALE)		**OPERATING DEVICE (GENERAL SYMBOL)**		**EARTH, GROUND (GENERAL SYMBOL)**		**THREE POSITIONS TURNING SWITCH, WITH SPRING THROWBACK TO THE CENTRAL POSITION**
	**VOLTAGE TRANSFORMER WITH TWO WINDINGS**		**COIL OF A TIME DELAYED OPERATING RELAY**		**MAKE CONTACT**		MECHANICAL INTERLOCK BETWEEN TWO DEVICES
	**VOLTAGE TRANSFORMER WITH THREE WINDINGS**		**COIL OF A TIME DELAYED RELEASING RELAY**		**BREAK CONTACT**		

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DWG n°: 231298/SD/32
Item n°: PF1002669/3

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"
FUNCTIONAL DIAGRAM
Graphical Symbols

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

SHEET 003

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION
	RESISTOR (GENERAL SYMBOL)		AMPEROMETRIC TEST SOCKET				
	THERMISTOR (GENERAL SYMBOL)		3 PHASES LINE				
	HEATING ELEMENT						
	INTERCONNECTION TERMINAL						
	WITHDRAWABLE TERMINAL SHORT-CIRCUITABLE ON C.T. SECONDARY CIRCUITS						
	WITHDRAWABLE TERMINAL FOR V.T. SECONDARY CIRCUITS						
	SWITCHBOARD TERMINAL						
	ON - OFF SWITCH						
	SURGE ARRESTER						
	VOLTMETRIC TEST SOCKET						

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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IMESA ELECTRICAL ENGINEERING

DWG n° : 231298/SD/32

Item n° : PF1002669/3

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"

FUNCTIONAL DIAGRAM

Graphical Symbols

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

SHEET 004

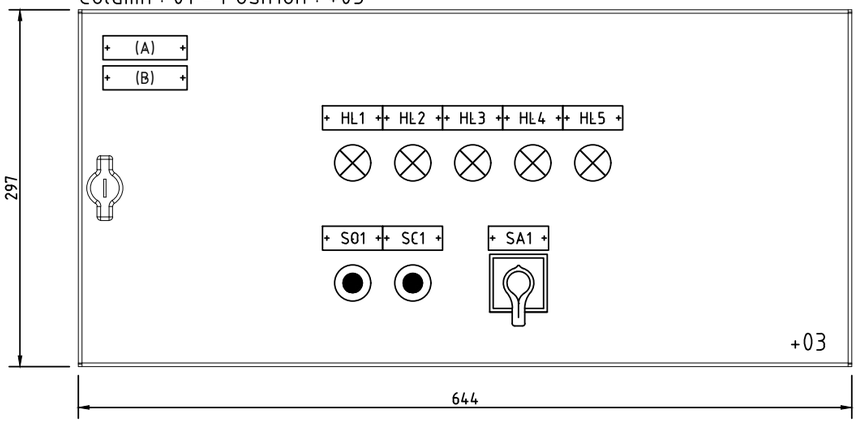
REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

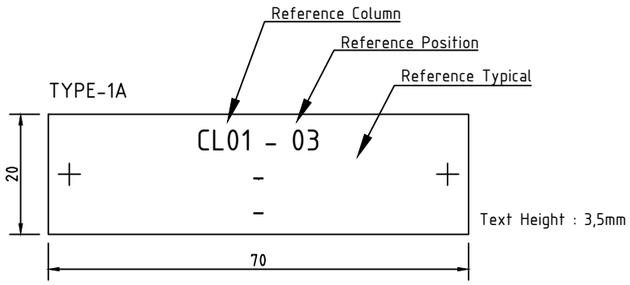
DOOR LAYOUT

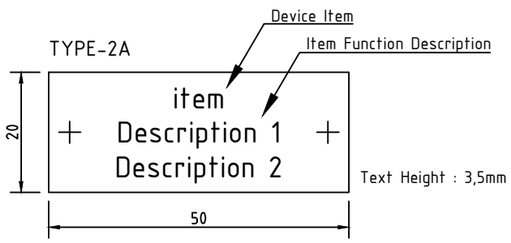
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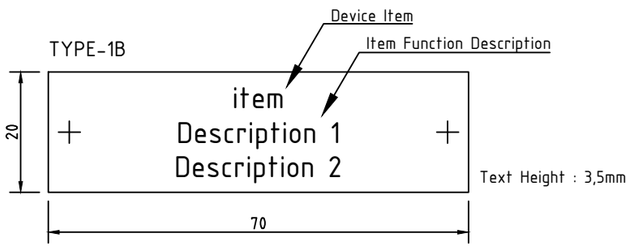


SCALE 1/5

DEVICES name plate				
ITEM	COMPONENT	DESCRIPTION 1	DESCRIPTION 2	NOTE
HL1	PILOT LIGHT	QB1 - CIRCUIT BREAKER	CLOSED	TYPE-2A
HL2	PILOT LIGHT	QB1 - CIRCUIT BREAKER	OPENED	TYPE-2A
HL3	PILOT LIGHT	QB1 - CIRCUIT BREAKER	TRIPPED	TYPE-2A
HL4	PILOT LIGHT	QB2 - CIRCUIT BREAKER	OPENED	TYPE-2A
HL5	PILOT LIGHT	QB2 - CIRCUIT BREAKER	CLOSED	TYPE-2A
S01	PUSH BUTTON	QB1 - CIRCUIT BREAKER	OPENING COMMAND	TYPE-2A
SC1	PUSH BUTTON	QB1 - CIRCUIT BREAKER	CLOSING COMMAND	TYPE-2A
SA1	SELECTOR SWITCH	SELECTOR	LOCAL / REMOTE	TYPE-2A







NOTE :

A) IDENTIFICATION name plate (type-1A) , with :
- Drawer position [Column / Position inside SWB]
- Typical name [reference applicability typical used, where applicable]

B) USER name plate (type-1B), with :
- Item User [to see SLD diagrams, where applicable]
- User Description [to see SLD diagrams, where applicable]

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DWG n° : 231298/SD/32
Item n° : PF1002669/3

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"
FUNCTIONAL DIAGRAM
Door Layout

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

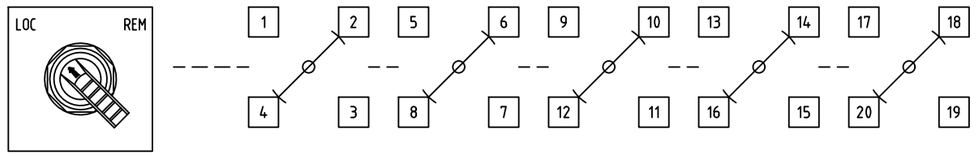
SHEET 005

REV. 03

F.to UNI A3: 420mmx297mm

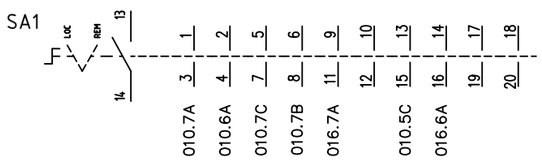
File Name : 1723002197-EL-DG-00032 Rev. 03

SELECTORS SWITCH DIAGRAM



Control Mode Switch

NOTE:
1. Square plate
2. Fixed position



NOTES

THE DIAGRAM INDICATES THE FOLLOWING CONDITIONS:

- INSERTED CIRCUIT BREAKER IN OPEN POSITION
- DE-ENERGIZED CIRCUITS
- DSCHARGED CLOSING SPRINGS

THE AUXILIARY CIRCUITS WILL HAVE THE FOLLOWING CHARACTERISTICS:

- 24+ 1,5mmq RED TYPE CABLE SH-W
- 24- 1,5mmq WHITE TYPE CABLE SH-W
- AUXILIARY CONTACTS TO TERMINAL STRIP 1,5mmq BLACK TYPE CABLE SH-W
- 230Vac 1,5mmq BLACK TYPE SH-W
- VOLTMETRICAL CIRCUITS 1,5mmq BLACK TYPE CABLE SH-W
- AMMETRICAL CIRCUIT 2,5mmq BLACK TYPE CABLE SH-W

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IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"
FUNCTIONAL DIAGRAM
Selector Switch Diagram

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

SHEET 006

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

POWER DISTRIBUTION

800V - 50Hz - 630A - 30kA x 1s

L1 008.1A
L2 008.1A
L3 008.1A

Emax E1

			INSERTED	TEST	ISOLATED
S75E	101-102 / 101-104	111-112 / 111-114	X	X	X
S75T	121-122 / 121-124	131-132 / 131-134	X	X	X
S75I	141-142 / 141-144	151-152 / 151-154	X	X	X

QB1 1250A — (1) — K51 Ekip Hi-Touch

S75E/1 S75E/2 S75T/1 S75T/2 S75I/1 S75I/2
102 104 112 114 122 124 132 134 144 142 154 152
101 111 121 131 141 151
011.7A 016.2A 011.6A 010.6B 010.7D 011.6A

Q/1 Q/2 Q/3 Q/4 S51 S33M
12 14 22 24 32 34 42 44 96 98 U1 36 38 C11 C13 C1 C3
11 21 31 41 95 U2 35 C12 C2
011.2A 020.2D 011.5A 020.3B 011.3A 008.4C 010.4C 010.6C
Y0 YC M

Electrical/Mechanical interlock

QB2 1250A — (1) — K51 Ekip Touch

S75E/1 S75E/2 S75T/1 S75T/2 S75I/1 S75I/2
102 104 112 114 122 124 132 134 144 142 154 152
101 111 121 131 141 151
016.4A 010.9B 016.5A

Q/1 Q/2 Q/3 Q/4
12 14 22 24 32 34 42 44
11 21 31 41
010.8B 020.5D 011.8A 012.2A

NOTE:
All function protection will be sett in OFF

FU1 1 2 L1S BN 1x16
FU2 1 2 L2S BK 1x16
FU3 1 2 L3S GY 1x16
35A-gG

SFL1 SFL2 SFL3

INCOMING FROM SOLAR FARM

F1 F2 F3 F4
L N/PE PE GNYE 1x16
12 14 11
017.4A 017.4A 017.5A 017.6A

(1) KEY LOCK FOR OPEN POSITION (CIRCUIT-BREAKER)

L1 L2 L3

OUTGOING

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DWG n° : 231298/SD/32
Item n° : PF1002669/3

IMESA ELECTRICAL ENGINEERING
CROSSWIND
ROSETTI MARINO

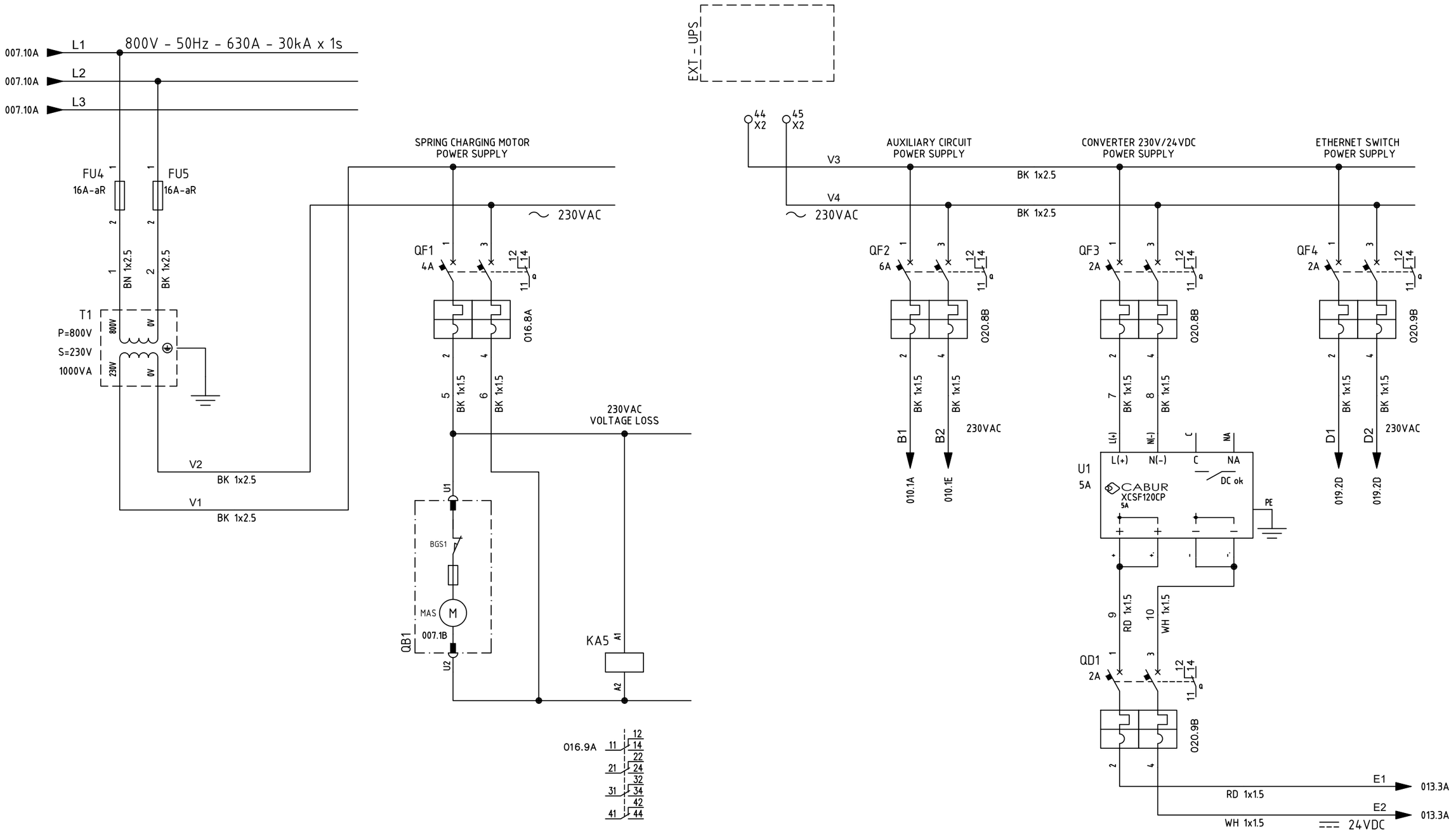
TITLE : "SG-200D2"
FUNCTIONAL DIAGRAM
Functional Drawing

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : NTS
A3
DRAWING NO. 1723002197-EL-DG-00032
SHEET 007
REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

SUPPLY AUXILIARY CIRCUITS



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CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231298/SD/32

Item n° : PF1002669/3

TITLE : "SG-200D2"

FUNCTIONAL DIAGRAM

Functional Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

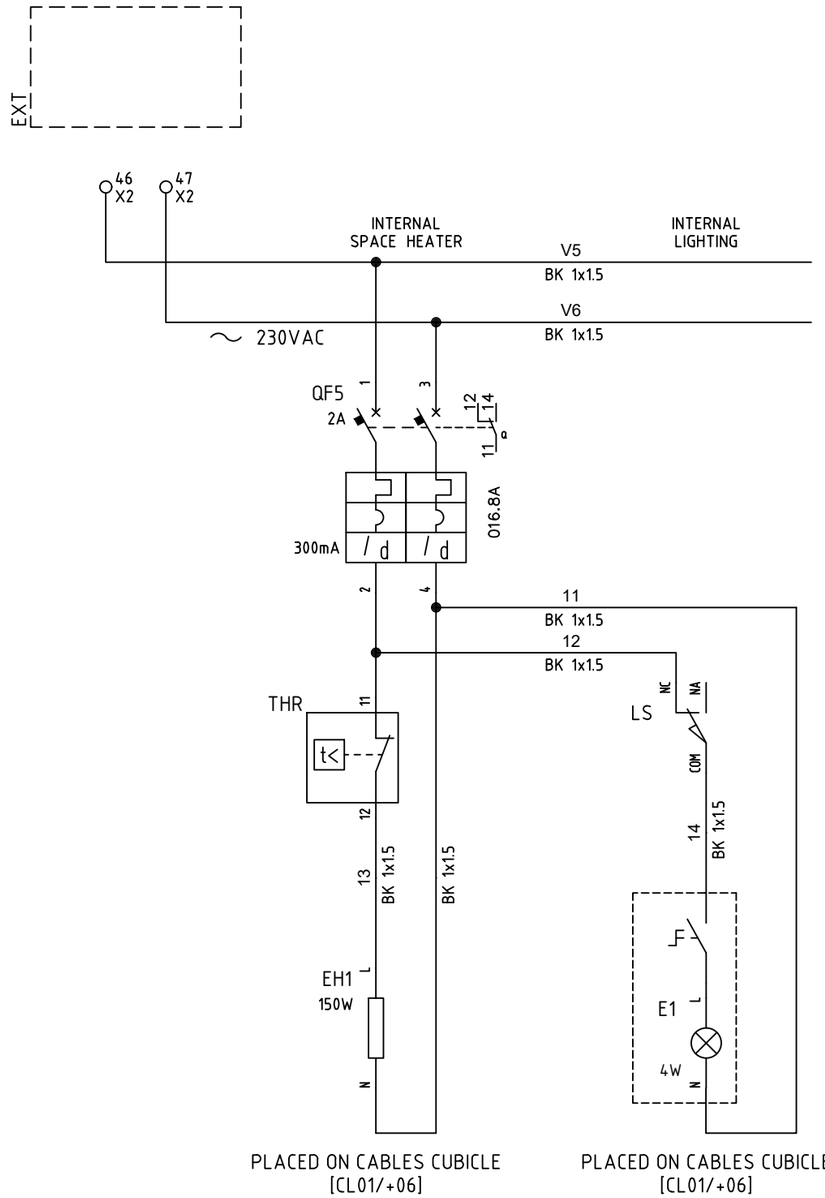
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REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

SUPPLY AUXILIARY CIRCUITS



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Item n° : PF1002669/3

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"
FUNCTIONAL DIAGRAM
Functional Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

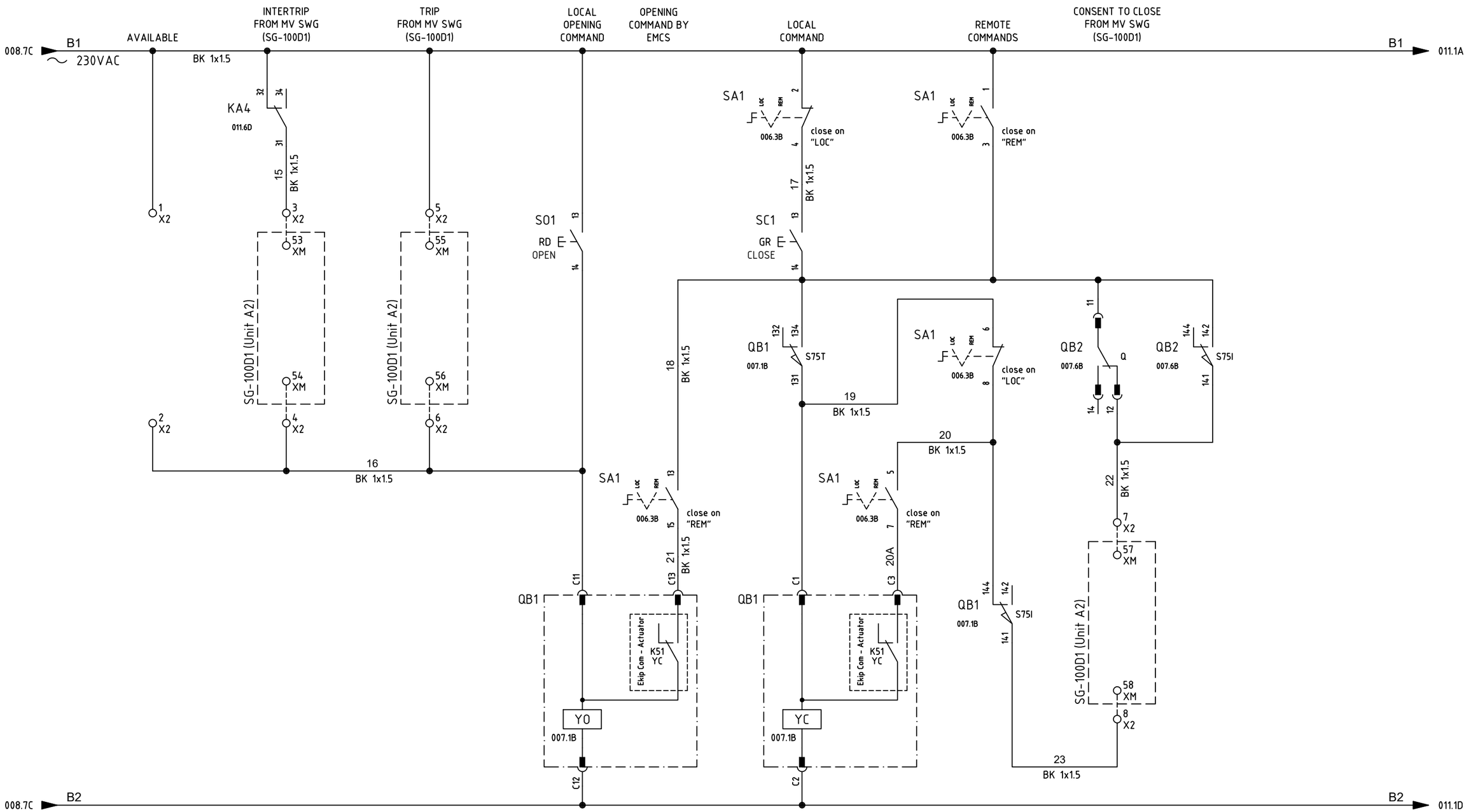
SHEET 009

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

"QB1" CIRCUIT BREAKER - COMMAND CIRCUITS



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+							
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CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n°: 231298/SD/32

Item n°: PF1002669/3

TITLE : "SG-200D2"

FUNCTIONAL DIAGRAM

Functional Drawing

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

SCALE : NTS

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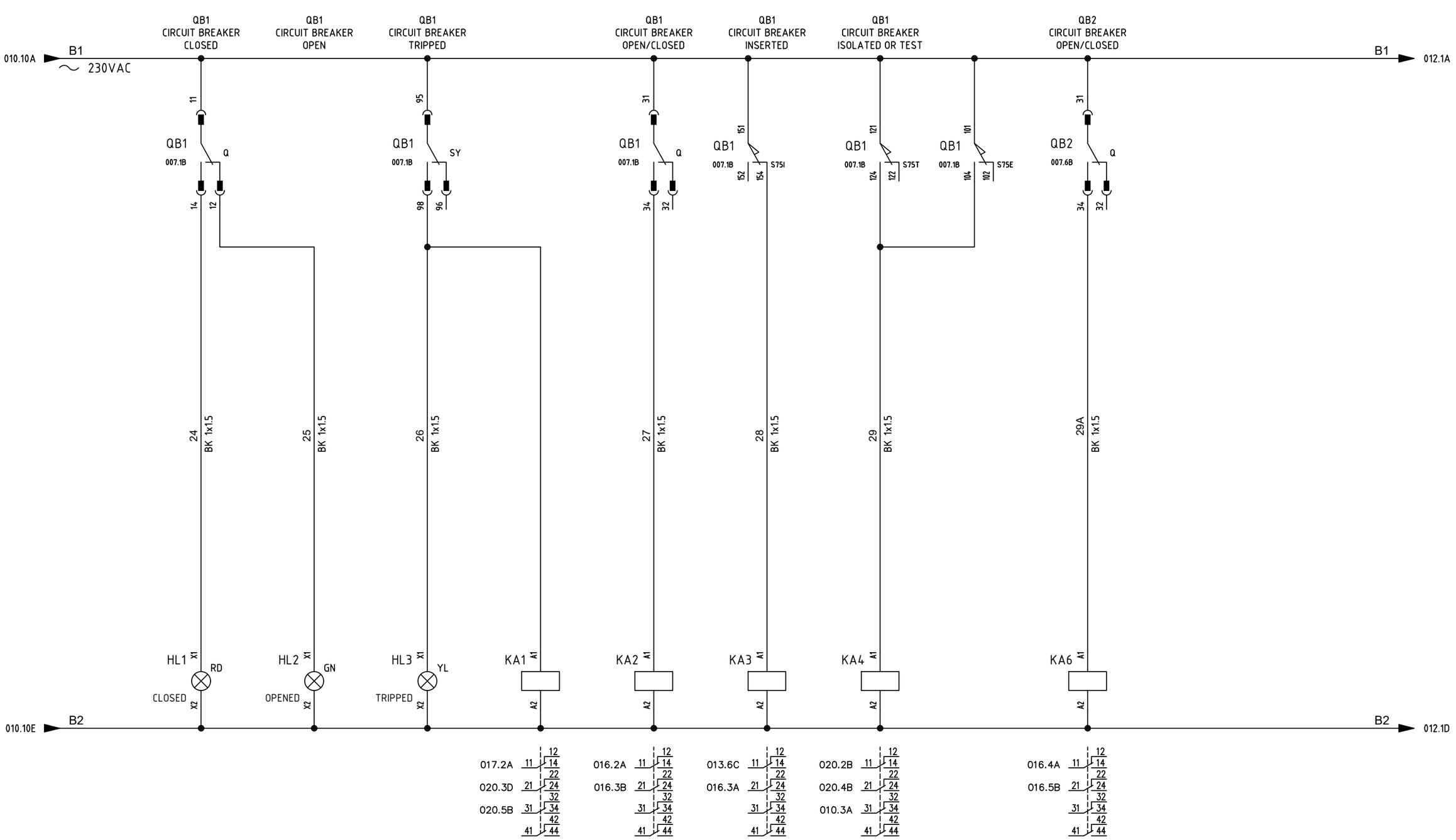
SHEET 010

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

"QB1" CIRCUIT BREAKER - SIGNALLING CIRCUITS



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
2	10/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	22/05/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

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DWG n°: 231298/SD/32
Item n°: PF1002669/3

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"
FUNCTIONAL DIAGRAM
Functional Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

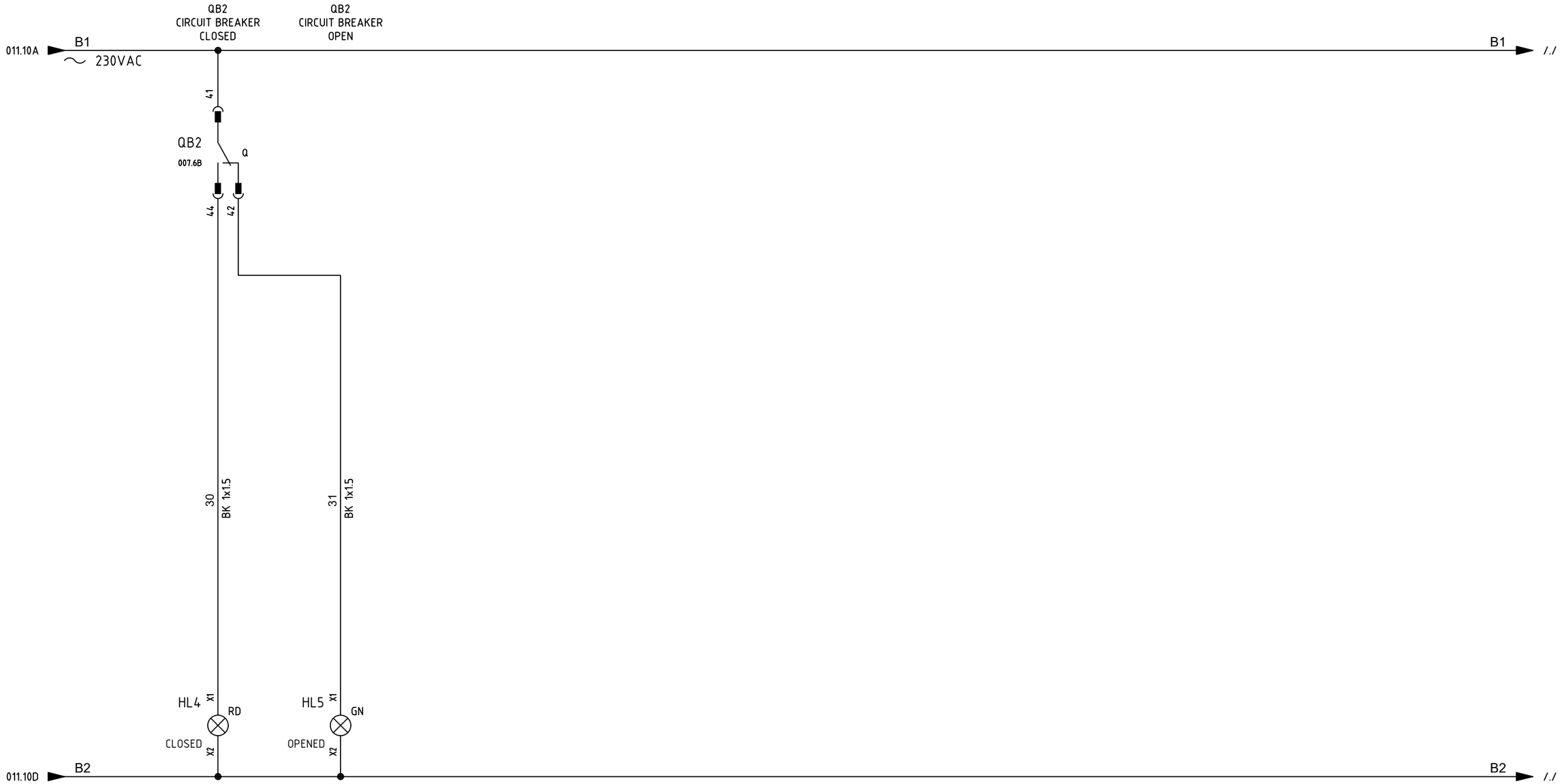
SHEET 011

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

"QB2" CIRCUIT BREAKER - SIGNALLING CIRCUITS



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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+					
3	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
2	10/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	22/05/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

DWG n° : 231298/SD/32
Item n° : PF1002669/3

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"
FUNCTIONAL DIAGRAM
Functional Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

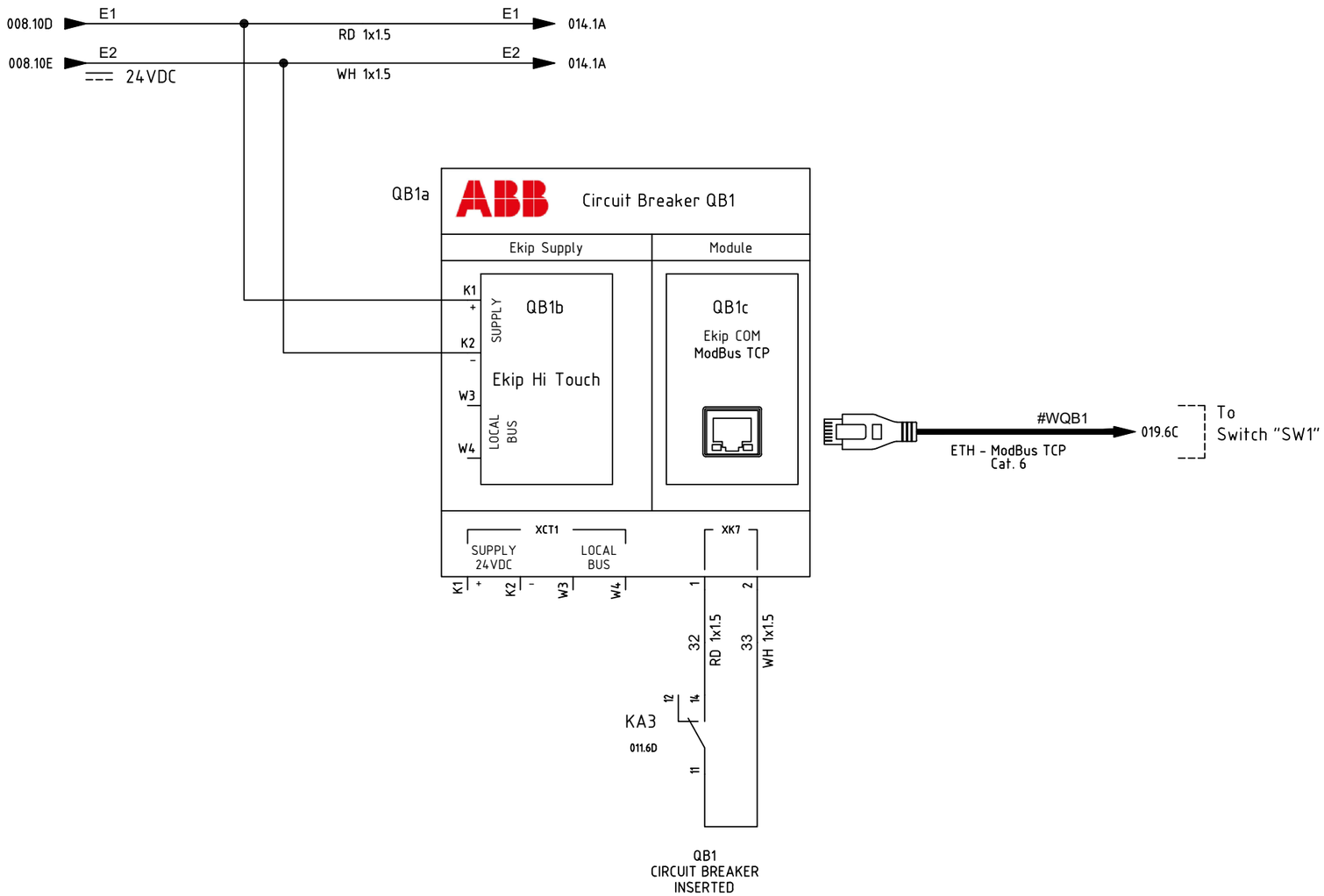
SHEET 012

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

"QB1" CIRCUIT BREAKER - COMUNICATION CIRCUITS



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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+					
3	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
2	10/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	22/05/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

DWG n° : 231298/SD/32
Item n° : PF1002669/3

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE : "SG-200D2"

FUNCTIONAL DIAGRAM

Functional Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

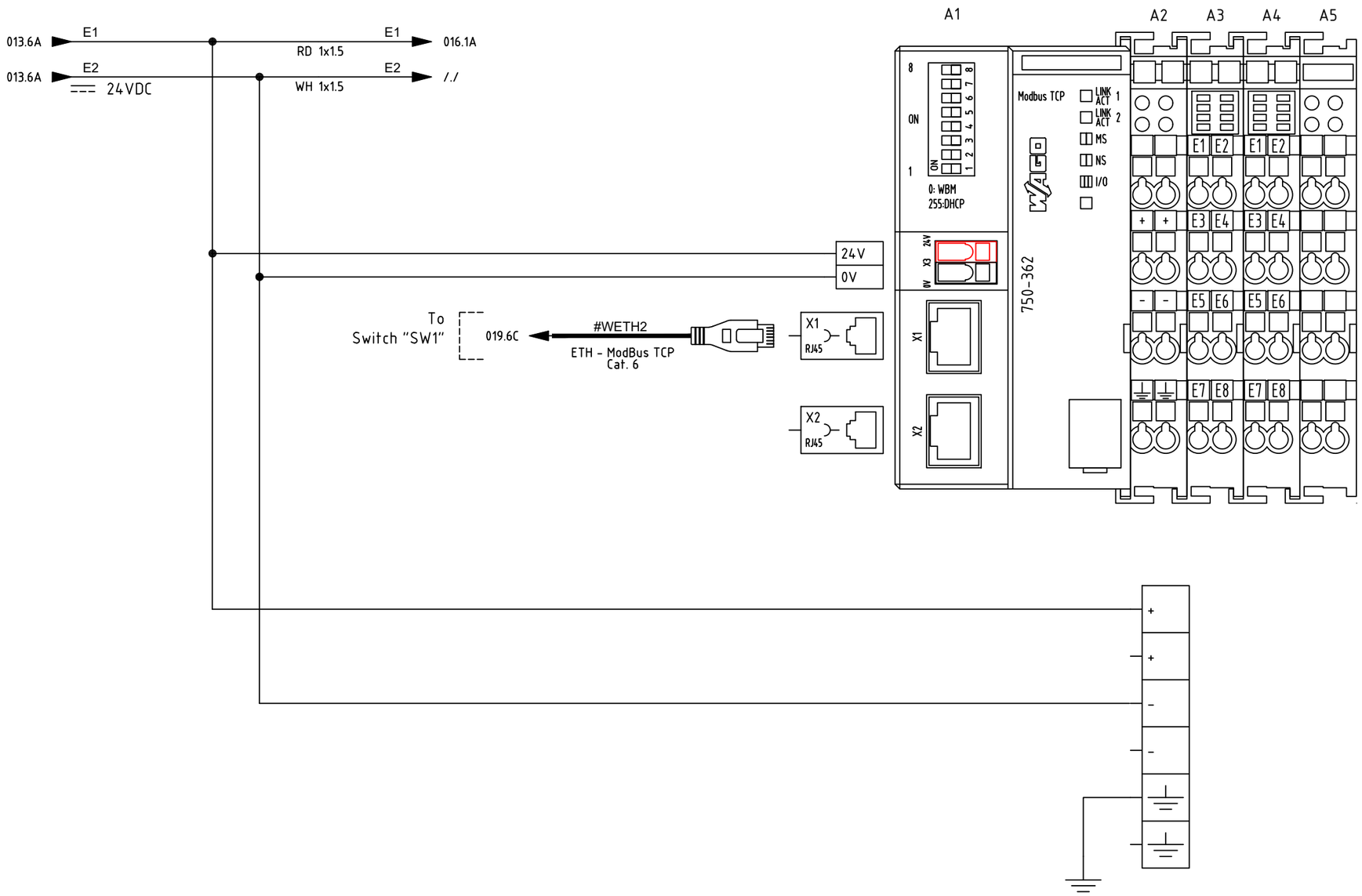
SHEET 013

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

MODULE I/O CONNECTION



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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+					
3	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
2	10/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	22/05/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

DWG n° : 231298/SD/32
Item n° : PF1002669/3

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"
FUNCTIONAL DIAGRAM
Functional Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

SHEET 014

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

MODULE I/O CONNECTION

Quadro: SG-200D2	Gruppo Funzione:	Sigla: A3					
CPU: SG-200D2	Rack: A1	Slot: 2					
Pin	Descrizione Pin	Indirizzo	Commento1	Commento2	Commento3	Commento4	Foglio
1 [E1]	DI 1	E0.0	SG-200D2	QB1	DISCONNECTED	OR OPEN	016
5 [E2]	DI 2	E0.1	SG-200D2	QB1	CONNECTED	AND CLOSED	016
2 [E3]	DI 3	E0.2	SG-200D2	QB2	DISCONNECTED	OR OPEN	016
6 [E4]	DI 4	E0.3	SG-200D2	QB2	CONNECTED	AND CLOSED	016
3 [E5]	DI 5	E0.4	SG-200D2	SA1	ON LOCAL	POSITION	016
7 [E6]	DI 6	E0.5	SG-200D2	SA1	ON REMOTE	POSITION	016
4 [E7]	DI 7	E0.6	SG-200D2	MCBs/VOLTAGE LOSS	ALARM		016
8 [E8]	DI 8	E0.7	SG-200D2	COMMUN	FAILURE		017

Quadro: SG-200D2	Gruppo Funzione:	Sigla: A4					
CPU: SG-200D2	Rack: A1	Slot: 3					
Pin	Descrizione Pin	Indirizzo	Commento1	Commento2	Commento3	Commento4	Foglio
1 [E1]	DI 1	E1.0	SG-200D2	SURGE ARRESTER	FAULT		017
5 [E2]	DI 2	E1.1	SG-200N1	MCBs	CLOSED		017
2 [E3]	DI 3	E1.2		AVAILABLE			017
6 [E4]	DI 4	E1.3		AVAILABLE			017
3 [E5]	DI 5	E1.4		AVAILABLE			017
7 [E6]	DI 6	E1.5		AVAILABLE			018
4 [E7]	DI 7	E1.6		AVAILABLE			018
8 [E8]	DI 8	E1.7		AVAILABLE			018

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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+					
3	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
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0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

IMESA ELECTRICAL ENGINEERING

DWG n° : 231298/SD/32

Item n° : PF1002669/3

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"

FUNCTIONAL DIAGRAM

Functional Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

SHEET 015

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

MODULE I/O CONNECTION

014.3A — E1 — 24VDC — RD 1x1.5 — E1 — 017.1A

KA2 011.5D (11 / 14 / 12) — QB1 007.1B (111 / 114 / 112 S75E) — KA3 011.6D (21 / 24 / 22) — KA6 011.8D (11 / 14 / 12) — QB2 007.6B (111 / 114 / 112 S75E) — QB2 007.6B (151 / 152 / 154 S75I) — SA1 006.3B (14 / 16 close on "LOC") — SA1 006.3B (9 / 11 close on "REM") — QF1 008.4B (11 / 14 / 12) — QF5 009.3B (11 / 14 / 12) — KA5 008.5D (11 / 14 / 12)

KA2 011.5D (21 / 24 / 22) — 34 RD 1x1.5

KA6 011.8D (21 / 24 / 22) — 35 RD 1x1.5

E0.0 RD 1x1.5	E0.1 RD 1x1.5	E0.2 RD 1x1.5	E0.3 RD 1x1.5	E0.4 RD 1x1.5	E0.5 RD 1x1.5	E0.6 RD 1x1.5
1 [E1]	5 [E2]	2 [E3]	6 [E4]	3 [E5]	7 [E6]	4 [E7]
E0.0	E0.1	E0.2	E0.3	E0.4	E0.5	E0.6
CPU: SG-200D2 MOD. : 2	CPU: SG-200D2 MOD. : 2	CPU: SG-200D2 MOD. : 2	CPU: SG-200D2 MOD. : 2	CPU: SG-200D2 MOD. : 2	CPU: SG-200D2 MOD. : 2	CPU: SG-200D2 MOD. : 2
Name: A3 / Sheet: 014.7C	Name: A3 / Sheet: 014.7C	Name: A3 / Sheet: 014.7C	Name: A3 / Sheet: 014.7C	Name: A3 / Sheet: 014.7C	Name: A3 / Sheet: 014.7C	Name: A3 / Sheet: 014.7C
SG-200D2 QB1 DISCONNECTED OR OPEN	SG-200D2 QB1 CONNECTED AND CLOSED	SG-200D2 QB2 DISCONNECTED OR OPEN	SG-200D2 QB2 CONNECTED AND CLOSED	SG-200D2 SA1 ON LOCAL POSITION	SG-200D2 SA1 ON REMOTE POSITION	SG-200D2 MCBs/VOLTAGE LOSS ALARM

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
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0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

CROSSWIND — IMESA ELECTRICAL ENGINEERING — ROSETTI MARINO

DWG n° : 231298/SD/32
Item n° : PF1002669/3

TITLE : "SG-200D2"
FUNCTIONAL DIAGRAM
Functional Drawing

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

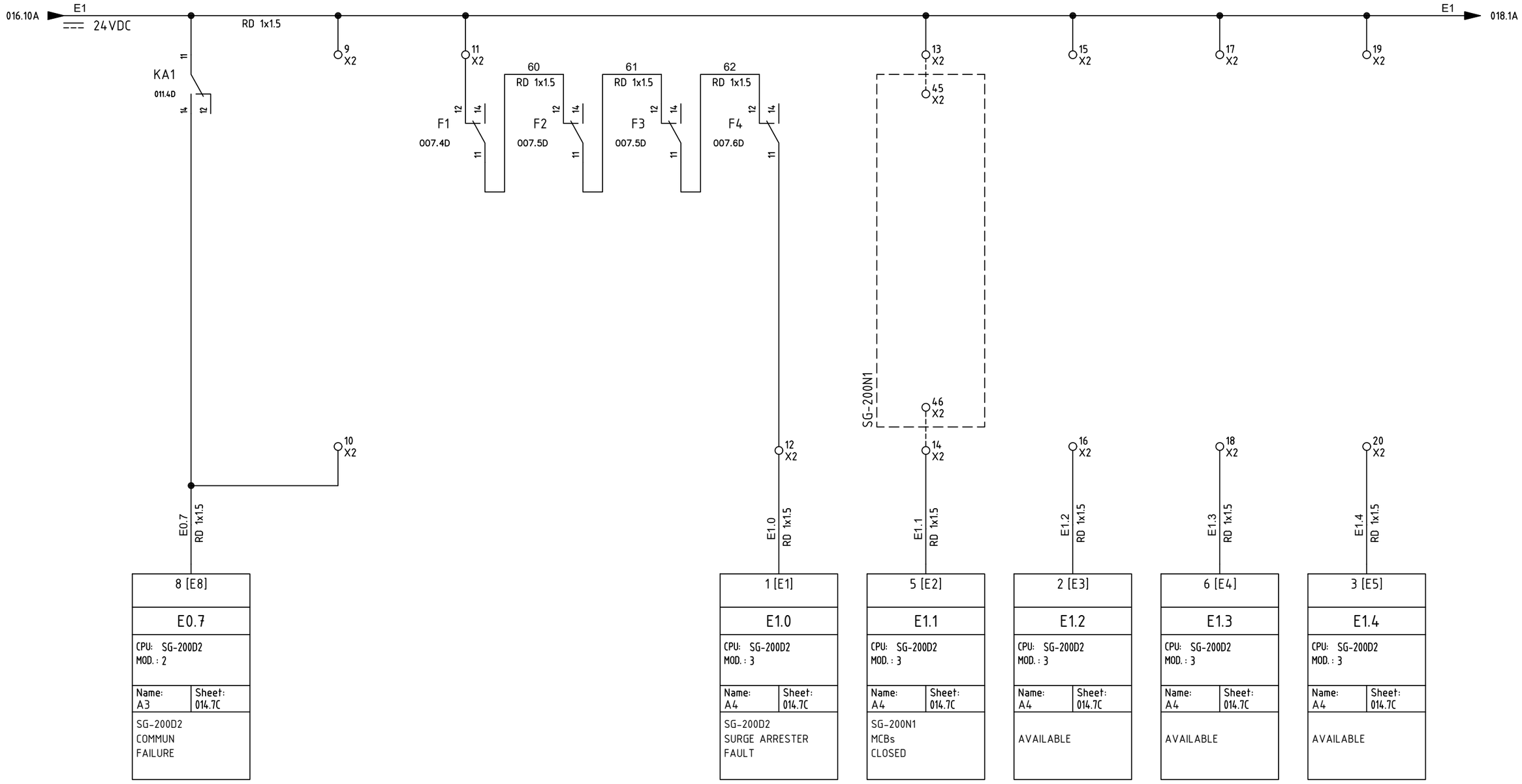
SCALE : NTS

A3 — DRAWING NO. 1723002197-EL-DG-00032 — SHEET 016 — REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

MODULE I/O CONNECTION



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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3	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
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0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231298/SD/32

Item n° : PF1002669/3

TITLE : "SG-200D2"

FUNCTIONAL DIAGRAM

Functional Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

SHEET 017

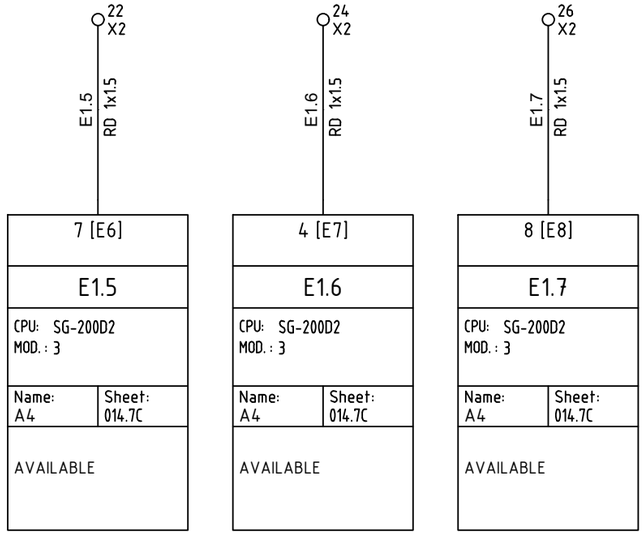
REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

MODULE I/O CONNECTION





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
3	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
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CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n°: 231298/SD/32

Item n°: PF1002669/3

TITLE : "SG-200D2"

FUNCTIONAL DIAGRAM

Functional Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

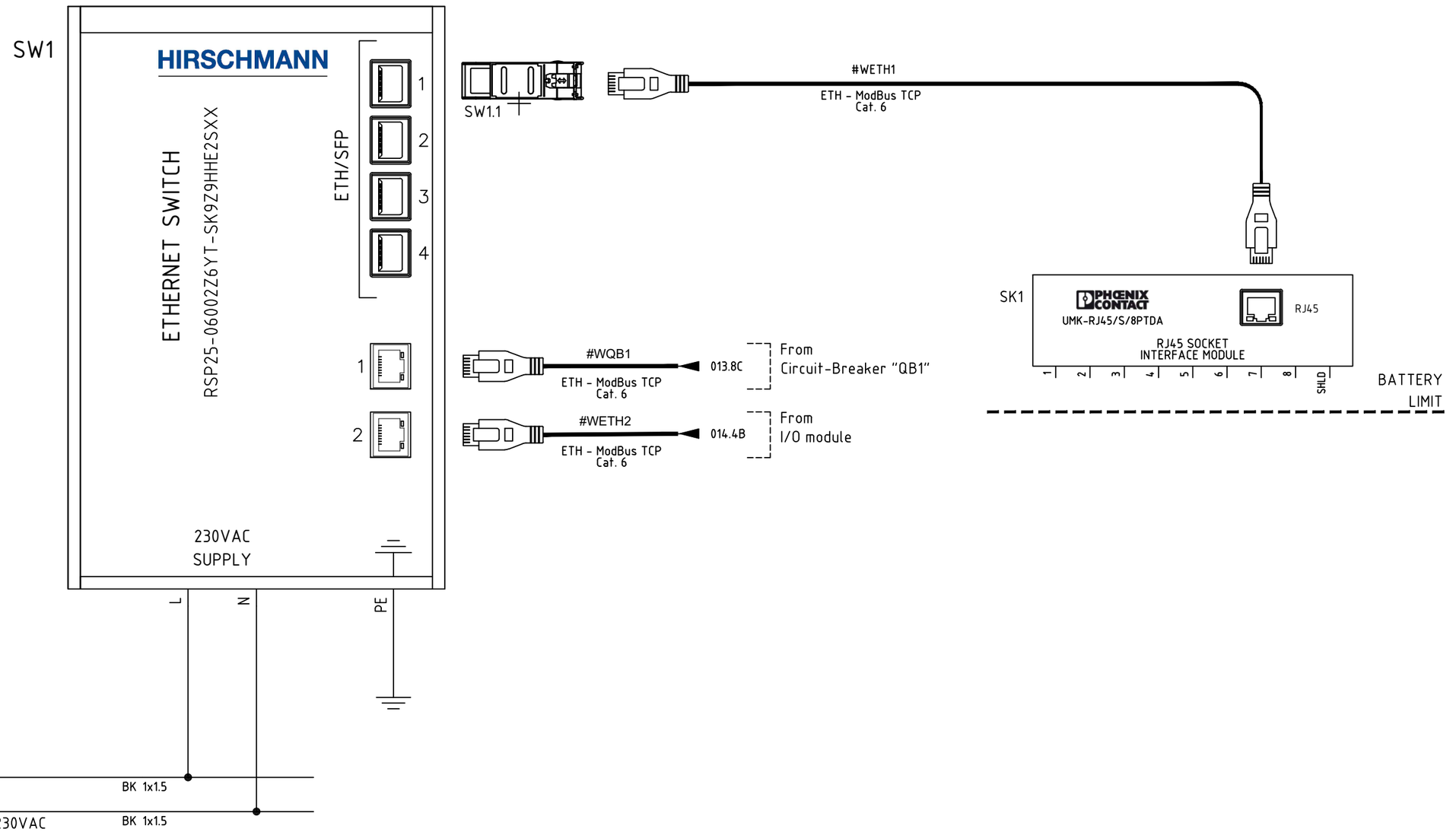
SHEET 018

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

SWITCH CONNECTION



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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+					
3	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
2	10/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	22/05/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

DWG n° : 231298/SD/32
Item n° : PF1002669/3

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"
FUNCTIONAL DIAGRAM
Functional Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

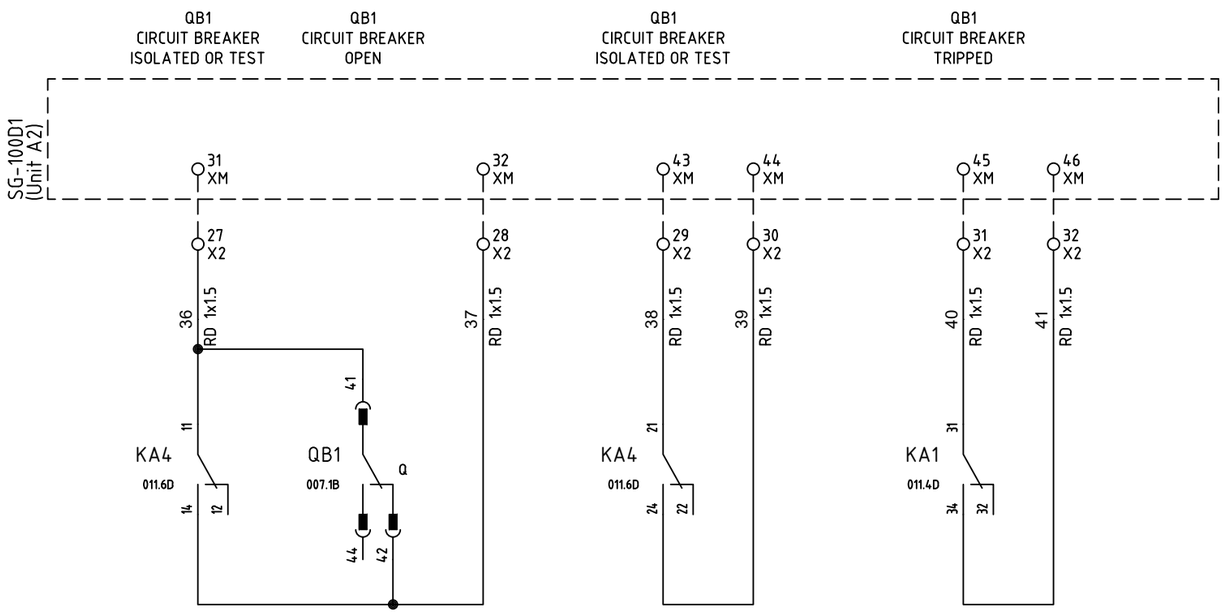
SHEET 019

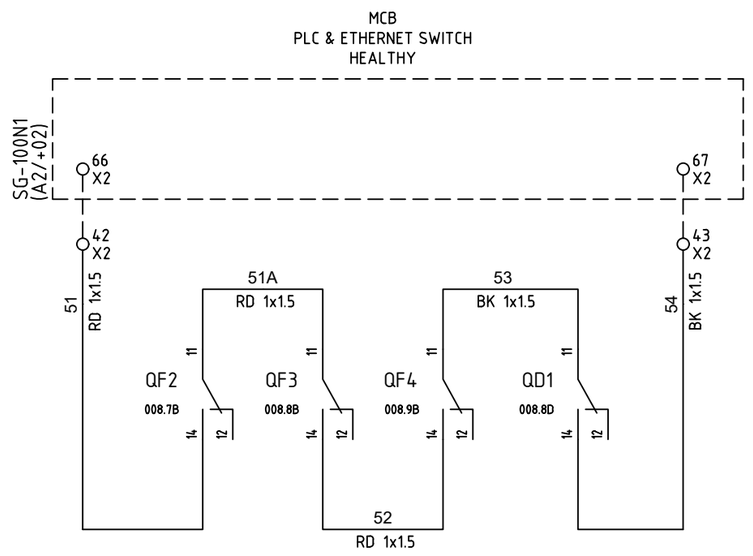
REV. 03

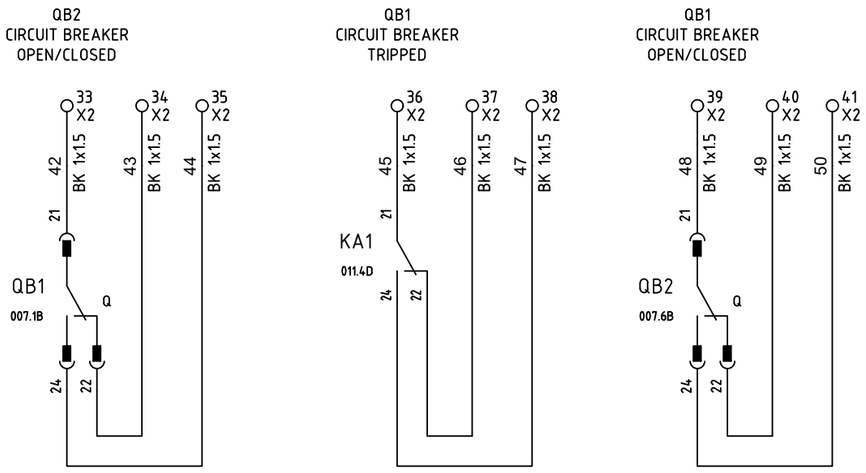
F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

AVAILABLE SIGNALS







REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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+					
3	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
2	10/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	22/05/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

CROSSWIND

ROSETTI MARINO

IMESA ELECTRICAL ENGINEERING

DWG n° : 231298/SD/32

Item n° : PF1002669/3

TITLE : "SG-200D2"

FUNCTIONAL DIAGRAM

Functional Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

SHEET 020

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

FUN - SG-200D2

X2

NumM	Sheet	Sec.	Type	Manufacturer	Terminal Description
			BT003	Cabur	BT/3 End bracket
1	010.2B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
2	010.2C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
3	010.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
4	010.3C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
5	010.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
6	010.3C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
7	010.8C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
8	010.8D	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
9	017.3A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
10	017.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
11	017.4A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
12	017.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
13	017.6A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
14	017.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
15	017.7A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
16	017.7B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
17	017.8A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
18	017.8B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
19	017.9A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
20	017.9B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
21	018.2A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
22	018.2B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
23	018.3A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
24	018.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
25	018.4A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
26	018.4B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
27	020.2B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
28	020.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
29	020.4B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
30	020.4B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
31	020.5B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
32	020.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
33	020.2C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
34	020.2C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
35	020.3C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
36	020.3C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type

FUN - SG-200D2

X2

NumM	Sheet	Sec.	Type	Manufacturer	Terminal Description
37	020.4C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
38	020.4C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
39	020.5C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
40	020.5C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
41	020.5C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
42	020.8B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
43	020.9B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
44	008.6A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
45	008.6A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
46	009.2B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
47	009.2B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
			HM251GR	Cabur	HMT.4/PT/GR End section - Grey
			BT003	Cabur	BT/3 End bracket

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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3	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
2	10/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for Construction (AFC)
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0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

DWG n° : 231298/SD/32

Item n° : PF1002669/3

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"

FUNCTIONAL DIAGRAM

Terminal Block

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

SHEET 021

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

Nome/Item	Fg/Sh	Tipo/Type	Q.tà	Descrizione/Description	Costruttore/Manufacturer	Ubicazione (descrizione)	Quadro (descrizione)
A1	014	750-362	1	Accoppiatore fieldbus ETHERNET, 4ª generazione 24VDC	Wago	FUN	SG-200D2
A2	014	750-602	1	Alimentazione del potenziale 24 V DC / passiva	Wago	FUN	SG-200D2
A3	014	750-430	1	Modulo 8 ingressi digitali 24 V DC 3.0ms	Wago	FUN	SG-200D2
A4	014	750-430	1	Modulo 8 ingressi digitali 24 V DC 3.0ms	Wago	FUN	SG-200D2
A5	014	750-600	1	Modulo terminatore	Wago	FUN	SG-200D2
E1	009	BEG74041	1	LAMP 4W 220-240V 50-60HZ COD.74041 - RGL P LED 4W 313MM 4000K	Beghelli	FUN	SG-200D2
EH1	009	R1R150230	1	SPACE HEATER SKR 150W ALIM. 220VCA	Torresan	FUN	SG-200D2
F1	007	961146	1	SURGE ARRESTER LOW VOLTAGE DBM 1 CI 440 FM Uc=440V Tipo 1 / Classe I	DEHN	FUN	SG-200D2
		900461	1	WIRING SYSTEM 3POLES TYPE EB1310	DEHN	FUN	SG-200D2
F2	007	961146	1	SURGE ARRESTER LOW VOLTAGE DBM 1 CI 440 FM Uc=440V Tipo 1 / Classe I	DEHN	FUN	SG-200D2
F3	007	961146	1	SURGE ARRESTER LOW VOLTAGE DBM 1 CI 440 FM Uc=440V Tipo 1 / Classe I	DEHN	FUN	SG-200D2
F4	007	961146	1	SURGE ARRESTER LOW VOLTAGE DBM 1 CI 440 FM Uc=440V Tipo 1 / Classe I	DEHN	FUN	SG-200D2
FU1	007	2640014P	1	PK-0/1000 Fuseholders for fuses In=160A up to 1000V DC/AC	Italweber	FUN	SG-200D2
		1505036	1	Fusible NH-0 35A gG 500V	Italweber	FUN	SG-200D2
FU2	007	2640014P	1	PK-0/1000 Fuseholders for fuses In=160A up to 1000V DC/AC	Italweber	FUN	SG-200D2
		1505036	1	Fusible NH-0 35A gG 500V	Italweber	FUN	SG-200D2
FU3	007	2640014P	1	PK-0/1000 Fuseholders for fuses In=160A up to 1000V DC/AC	Italweber	FUN	SG-200D2
		1505036	1	Fusible NH-0 35A gG 500V	Italweber	FUN	SG-200D2
FU4	008	2640014P	1	PK-0/1000 Fuseholders for fuses In=160A up to 1000V DC/AC	Italweber	FUN	SG-200D2
		1544016M	1	Fuse NH-0 16A aR 1000V	Italweber	FUN	SG-200D2
FU5	008	2640014P	1	PK-0/1000 Fuseholders for fuses In=160A up to 1000V DC/AC	Italweber	FUN	SG-200D2
		1544016M	1	Fuse NH-0 16A aR 1000V	Italweber	FUN	SG-200D2
HL1	011	EO 562 2	1	ML1-100R RED LAMP	ABB	FUN	SG-200D2
		EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	FUN	SG-200D2
		KV 035 7	1	MLBL-07R RED LED BLOCK INTEGRATED 230VAC	ABB	FUN	SG-200D2
HL2	011	EO 563 0	1	ML1-100G GREEN LAMP	ABB	FUN	SG-200D2
		EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	FUN	SG-200D2
		KV 036 5	1	MLBL-07G GREEN LED BLOCK INTEGRATED 230VAC	ABB	FUN	SG-200D2
HL3	011	EO 564 8	1	ML1-100Y YELLOW LAMP	ABB	FUN	SG-200D2
		EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	FUN	SG-200D2
		KV 037 3	1	MLBL-07Y YELLOW LED BLOCK INTEGRATED 230VAC	ABB	FUN	SG-200D2
HL4	012	EO 562 2	1	ML1-100R RED LAMP	ABB	FUN	SG-200D2
		EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	FUN	SG-200D2
		KV 035 7	1	MLBL-07R RED LED BLOCK INTEGRATED 230VAC	ABB	FUN	SG-200D2
HL5	012	EO 563 0	1	ML1-100G GREEN LAMP	ABB	FUN	SG-200D2
		EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	FUN	SG-200D2
		KV 036 5	1	MLBL-07G GREEN LED BLOCK INTEGRATED 230VAC	ABB	FUN	SG-200D2
KA1	011	ER 592 6	1	CR-M230AC4L SUPPLY 230VAC 4C/O 250V/6A LED	ABB	FUN	SG-200D2
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	FUN	SG-200D2
		ER 609 8	1	CR-MH HOLDER FOR CR-M RELAY	ABB	FUN	SG-200D2
KA2	011	ER 592 6	1	CR-M230AC4L SUPPLY 230VAC 4C/O 250V/6A LED	ABB	FUN	SG-200D2
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	FUN	SG-200D2
		ER 609 8	1	CR-MH HOLDER FOR CR-M RELAY	ABB	FUN	SG-200D2
KA3	011	ER 592 6	1	CR-M230AC4L SUPPLY 230VAC 4C/O 250V/6A LED	ABB	FUN	SG-200D2

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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3	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
2	10/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	22/05/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

IMESA ELECTRICAL ENGINEERING

DWG n° : 231298/SD/32

Item n° : PF1002669/3

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"

FUNCTIONAL DIAGRAM

Bill of Materials

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

SHEET 022

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

Nome/Item	Fg/Sh	Tipo/Type	Q.tà	Descrizione/Description	Costruttore/Manufacturer	Ubicazione (descrizione)	Quadro (descrizione)
KA3	011	ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	FUN	SG-200D2
		ER 609 8	1	CR-MH HOLDER FOR CR-M RELAY	ABB	FUN	SG-200D2
KA4	011	ER 592 6	1	CR-M230AC4L SUPPLY 230VAC 4C/O 250V/6A LED	ABB	FUN	SG-200D2
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	FUN	SG-200D2
		ER 609 8	1	CR-MH HOLDER FOR CR-M RELAY	ABB	FUN	SG-200D2
KA5	008	ER 592 6	1	CR-M230AC4L SUPPLY 230VAC 4C/O 250V/6A LED	ABB	FUN	SG-200D2
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	FUN	SG-200D2
		ER 609 8	1	CR-MH HOLDER FOR CR-M RELAY	ABB	FUN	SG-200D2
KA6	011	ER 592 6	1	CR-M230AC4L SUPPLY 230VAC 4C/O 250V/6A LED	ABB	FUN	SG-200D2
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	FUN	SG-200D2
		ER 609 8	1	CR-MH HOLDER FOR CR-M RELAY	ABB	FUN	SG-200D2
LS	009	Z15GW2-1-1453270	1	MICROSWITCH 1sc	Omron	FUN	SG-200D2
		APB-PG	1	COVER TO MICRO-SWITCH	Omron	FUN	SG-200D2
QB1	007	1SDA073782R1	1	KLC-D BLOCK KEY ON OPEN POSITION TO E1.2	ABB	FUN	SG-200D2
		1SDA073822R1	1	KLP-D INSERTED/ISOLATED KEY BLOCK TO E1.2	ABB	FUN	SG-200D2
		1SDA073885R1	1	MECHANICAL INTERLOCKING CABLE TO TYPE A VERTICAL TO E1.2÷E6.2	ABB	FUN	SG-200D2
		1SDA073896R1	1	SUPPORT FOR MECHANICAL INTERLOCK OF FIXED PART FOR E1.2 TYPE A	ABB	FUN	SG-200D2
		1SDA073674R1	1	OPENING COIL YO 220÷240VAC/DC TO E12÷E6.2	ABB	FUN	SG-200D2
		1SDA073687R1	1	CLOSING COIL YC 220÷240VAC/DC TO E1.2÷E6.2	ABB	FUN	SG-200D2
		1SDA073711R1	1	MOTOR SPRING CHARGER 220÷250Vac/dc TO E1.2	ABB	FUN	SG-200D2
		1SDA073907R1	1	E1.2 W FP 1600 3P FIXED PART HR-HR	ABB	FUN	SG-200D2
		1SDA073762R1	1	AUP 6 CONTACT AUX INS/TEST/EST TO E1.2	ABB	FUN	SG-200D2
		1SDA074151R1	1	Module Ekip Com Modbus TCP Emax E1.2÷E6.2	ABB	FUN	SG-200D2
		1SDA074173R1	1	MODUL EKIP SUPPLY 24÷48VDC	ABB	FUN	SG-200D2
		1SDA073855R1	1	PBC Prot. Pushbutt.AP/CH D=4mm E1.2-XT7M	ABB	FUN	SG-200D2
		1SDA104297R1	1	E1.2N/E9 1250 3P Ekip Hi-Touch-LSIG In=1250A WITHDRAWABLE MOBIL PART	ABB	FUN	SG-200D2
		1SDA074166R1	2	Module Ekip Actuator Emax E1.2÷E6.2÷XT7÷XT7M	ABB	FUN	SG-200D2
		1SDA073906R1	1	AUXILIARY TERMINALS CONNECTION (10PC)	ABB	FUN	SG-200D2
		1SDA073838R1	1	ADDITIONAL BLOCK ISOALTED FOR E1	ABB	FUN	SG-200D2
QB2	007	1SDA073782R1	1	KLC-D BLOCK KEY ON OPEN POSITION TO E1.2	ABB	FUN	SG-200D2
		1SDA073822R1	1	KLP-D INSERTED/ISOLATED KEY BLOCK TO E1.2	ABB	FUN	SG-200D2
		1SDA073896R1	1	SUPPORT FOR MECHANICAL INTERLOCK OF FIXED PART FOR E1.2 TYPE A	ABB	FUN	SG-200D2
		1SDA074280R1	1	RATING PLUG 1250A FUNCTION L (OFF) TO EKIP RELEASE TO E1.2..E6.2 INSTALLED	ABB	FUN	SG-200D2
		1SDA073907R1	1	E1.2 W FP 1600 3P FIXED PART HR-HR	ABB	FUN	SG-200D2
		1SDA073762R1	1	AUP 6 CONTACT AUX INS/TEST/EST TO E1.2	ABB	FUN	SG-200D2
		1SDA073855R1	1	PBC Prot. Pushbutt.AP/CH D=4mm E1.2-XT7M	ABB	FUN	SG-200D2
		1SDA104296R1	1	E1.2N/E9 1250 3P Ekip Touch-LSIG In=1250A WITHDRAWABLE MOBIL PART	ABB	FUN	SG-200D2
		1SDA073906R1	1	AUXILIARY TERMINALS CONNECTION (10PC)	ABB	FUN	SG-200D2
		1SDA073885R1	1	MECHANICAL INTERLOCKING CABLE TO TYPE A VERTICAL TO E1.2÷E6.2	ABB	FUN	SG-200D2
		1SDA073838R1	1	ADDITIONAL BLOCK ISOALTED FOR E1	ABB	FUN	SG-200D2
QD1	008	S550239	1	S202M C 2 AUTOMATIC CIRCUIT BREAKER 10KA 2P	ABB	FUN	SG-200D2
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	FUN	SG-200D2
QF1	008	A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	FUN	SG-200D2
		S550253	1	S202M C 4 AUTOMATIC CIRCUIT-BREAKER 10KA 2P	ABB	FUN	SG-200D2

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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3	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
2	10/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	22/05/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

IMESA ELECTRICAL ENGINEERING

DWG n° : 231298/SD/32

Item n° : PF1002669/3

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"

FUNCTIONAL DIAGRAM

Bill of Materials

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

SHEET 023

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03

Nome/Item	Fg/Sh	Tipo/Type	Q.tà	Descrizione/Description	Costruttore/Manufacturer	Ubicazione (descrizione)	Quadro (descrizione)
QF2	008	S550260	1	S202M C 6 AUTOMATIC CIRCUIT-BREAKER 10KA 2P	ABB	FUN	SG-200D2
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	FUN	SG-200D2
QF3	008	S550239	1	S202M C 2 AUTOMATIC CIRCUIT BREAKER 10KA 2P	ABB	FUN	SG-200D2
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	FUN	SG-200D2
QF4	008	S550239	1	S202M C 2 AUTOMATIC CIRCUIT BREAKER 10KA 2P	ABB	FUN	SG-200D2
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	FUN	SG-200D2
QF5	009	S550239	1	S202M C 2 AUTOMATIC CIRCUIT BREAKER 10KA 2P	ABB	FUN	SG-200D2
		B427960	1	DDA202 A 25A 300MA RCD BLOCK 2P	ABB	FUN	SG-200D2
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	FUN	SG-200D2
SA1	006	R601-205_02-W002	1	SWITCH R16 2/5 - 2 STAY POSITION	Cometric	FUN	SG-200D2
		Q4820030	1	Frontplate 48x48mm (LOC-REM)	Cometric	FUN	SG-200D2
SC1	010	KW 076 0	1	MP1-10G PUSH BUTTON GREEN WITH BLACK RING	ABB	FUN	SG-200D2
		EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	FUN	SG-200D2
		EO 570 5	1	MCB-10 CONTACT NO FOR PUSHBUTTONS	ABB	FUN	SG-200D2
SK1	019	2900682	1	UMK-RJ45/S/8PTDA Modul VARIOFACE	Phoenix Contact	FUN	SG-200D2
SO1	010	KW 075 2	1	MP1-10R PUSH BUTTON RED WITH BLACK RING	ABB	FUN	SG-200D2
		EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	FUN	SG-200D2
		EO 570 5	1	MCB-10 CONTACT NO FOR PUSHBUTTONS	ABB	FUN	SG-200D2
SW1	019	RSPS25-06002Z6YT-SK9Z9HHE2SXX.X	1	Managed Industrial Switch for DIN Rail, fanless design Fast Ethernet Type - Enhanced (PRP, Fast MRP, HSR, NAT with L3 type) - 2 x RJ45; 4 x SFP - V=48V÷320VDC -88÷265VAC)	HIRSCHMANN	FUN	SG-200D2
SW1.1	019	M-FAST SFP-TX/RJ45	1	SFP TX Fast Ethernet Transceiver with RJ45	HIRSCHMANN	FUN	SG-200D2
T1	008	F14XXX_01	1	Moofase Transformer 50Hz 800/230Vac 50Hz P=1000VA ? tropicalized	L.E.F.	FUN	SG-200D2
THR	009	TRT-10A230V-NC	1	Regolable Thermostat -10÷80°C 1NC IP20 DIN Mounting	Fandis	FUN	SG-200D2
U1	008	XCSF120CP	1	CSF120CP Switching power supply Cool Power 1-phase 90...264 Vac & 100...345 Vdc / 24 Vdc 5 A redundant version	Cabur	FUN	SG-200D2
X2		HM250GR	47	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type	Cabur	FUN	SG-200D2
		BT003	2	BT/3 End bracket	Cabur	FUN	SG-200D2
		HM251GR	1	HMT.4/PT/GR End section - Grey	Cabur	FUN	SG-200D2

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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+					
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IMESA ELECTRICAL ENGINEERING

DWG n°: 231298/SD/32

Item n°: PF1002669/3

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"

FUNCTIONAL DIAGRAM

Bill of Materials

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00032

SHEET 024

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00032 Rev. 03