"SG-100D1" HV SWBD 6,6kV (UNIT A7)

FUNCTIONAL DIAGRAM

FUEL CELL FEEDER A-80000

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+A7

DWG n° : 231151/SD/19

Item n° : PF1113279

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
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IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000

Cover

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

SHEET 1

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

INDEX

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2	Sheets Index									
3	Legend									
4	Door Layout									
5	Protection Display REX640									
6	Selector Switch Diagram									
7	Power Diagram									
8	Power Diagram									
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11	110Vdc / 24Vdc Distribution Voltage									
12	Composition Relay REX640									
13	230Vac Distribution Voltage									
14	110V Protection/Measure Distribution Voltage									
15	110V Protection/Measure Distribution Voltage									
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27	230Vac Auxiliary General Healtly									
28	Availables Signals									
29	Terminal strip									
30	Terminal strip									
31	Terminal strip									
32	Terminal strip									
33	Terminal strip									
34	Bill of Materials									
35	Bill of Materials									
36	Bill of Materials									

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IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000

Sheets Index

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

SHEET 2

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

ITEM	DESCRIPTION
BB	ARC SENSOR PROTECTION ON MAIN BUS BARS
BGE	EARTHING SWITCH
C1	VOLTAGE PRESENCE
CB	ARC SENSOR PROTECTION ON C.B. / CONTACTOR COMPARTMENT
CC	ARC SENSOR PROTECTION ON CABLE COMPARTMENT
DCO	DOUBLE COMMAND OPERATED CONTACTOR
DI3	UNDERVOLTAGE CONTACTOR
DP1	ALARM RELAY MODULE TEMPERATURE
E1	INTERNAL LIGHT
E8	RESISTOR FERRO-RESONANCE
EH1	INTERNAL SPACE HEATER
Fn	MV FUSE
FP1	PROTECTION RELAY
GS1	DC/DC CONVERTER
HGR	THERMOSTAT
Kn	AUXILIARY RELAY
K1	MV CONTACTOR
K86	BLOCK RELAY
KT1	DE-ENERGIZATION TIMER
LS	MICRO SWITCH ON AUXILIARY DOOR
MAS	MOTOR SPRING CHARGER
MBC	CLOSING COIL
MBO1	OPENING COIL
MBU	UNDERVOLTAGE
ODn	VOLTAGE DISCHARGER
PU1	MEASURING VOLTAGE INSTRUMENT

ITEM	DESCRIPTION
PTT	V.T. TRUCK
QM	MV CIRCUIT-BREAKER
QDn	M.C.B. CIRCUITS PROTECTION
QVn	M.C.B FOR V.T. PROTECTION
RLE1	COIL FOR CONSET CLOSING CIRCUIT-BREAKER
RLE2	COIL FOR UNLOCKING RACK-IN/OUT OPERATION
RLE3	COIL FOR UNLOCKING OPERATION EARTHING
RLE4	COIL FOR UNLOCKING ENCLOSURE DOOR OPERATION
SU1	VOLTAGE SELECTOR
SWH...	ETHERNET SWITCH
TI-Ln	CURRENT TRANSFORMER
TO	OMOPOLAR RING CURRENT TRANSFORMER
TR1	TEMPERATURE CONTROL DEVICE

FUNCTIONAL OF THE PROTECTION RELAY OUTPUT CONTACTS:

SLOT "G":
RF = WATCHDOG RELAY
S01 = EARTHING SWITCH UNLOCKING
S02 = C.B. or CONTACTOR READY TO CLOSE
POSP1 = CLOSING COMMAND
S03 = C.B. or CONTACTOR TRUCK UNLOCKED
PODP1 = OPENING COMMAND
SLOT "B":
S01 = TRIP PROTECTION TO LOCKOUT RELAY
S02 = EARTHING SWITCH CLOSED
S03 = AVAILABLE OUTPUT (ON TERMINAL STRIP)
S04 = RESET LOCKOUT RELAY

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DWG n° : 231151/SD/19
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IMESA ELECTRICAL ENGINEERING
CROSSWIND
ROSETTI MARINO

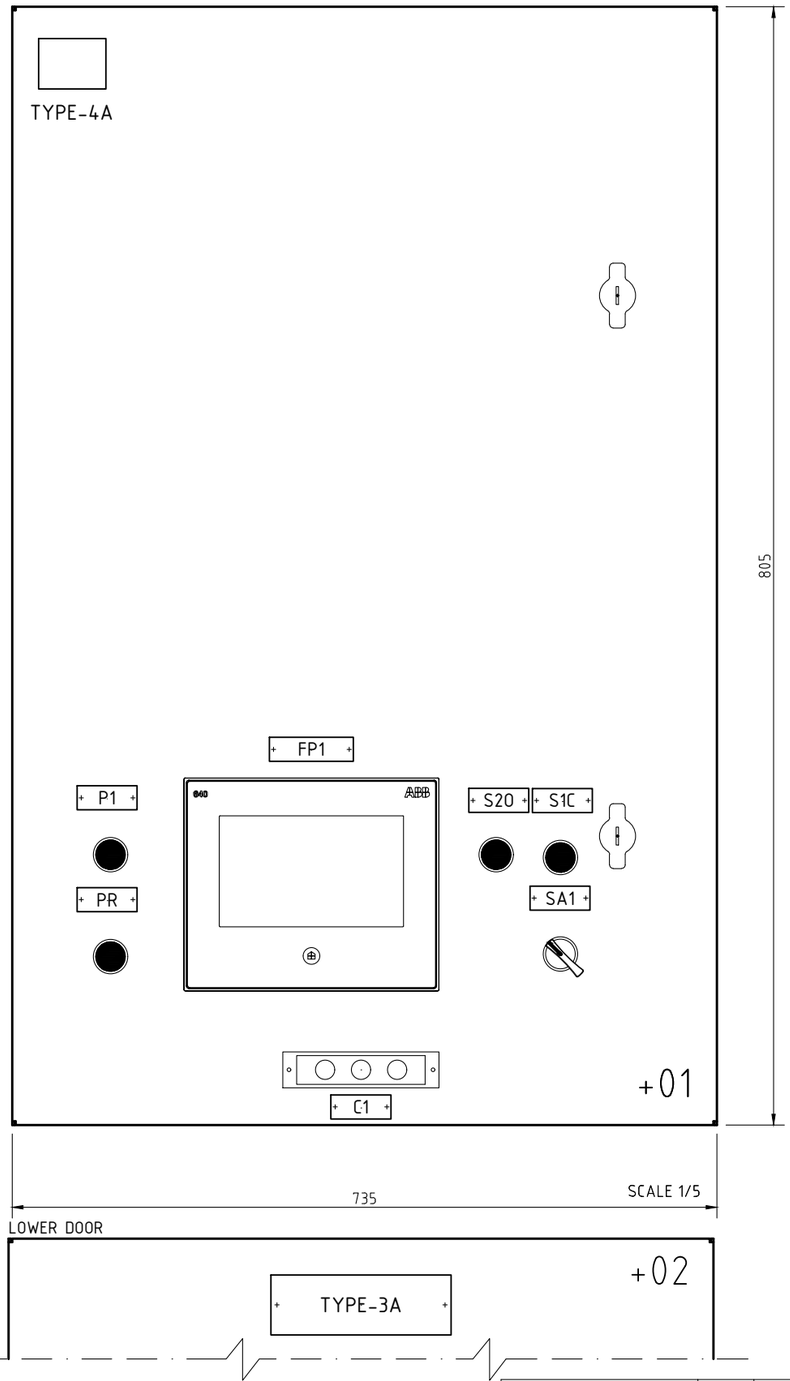
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SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
Legend

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

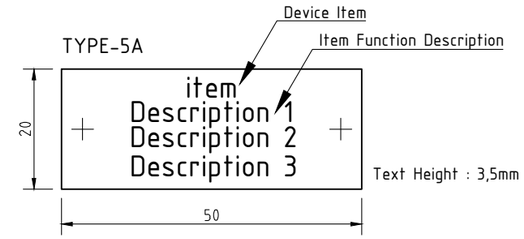
A3
DRAWING NO. 1723002197-EL-DG-00019
SHEET 3
REV. 03

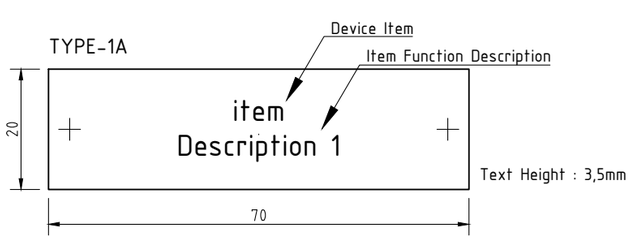
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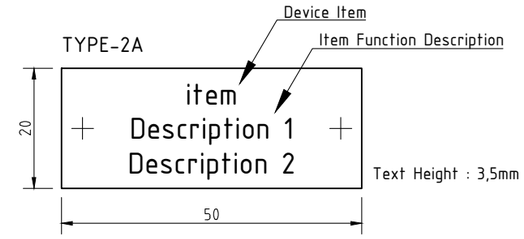
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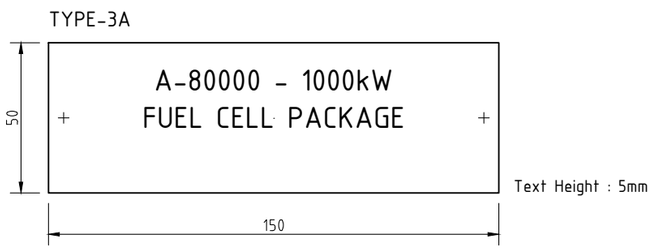


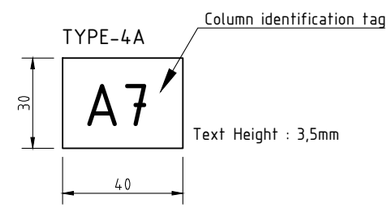
DEVICES name plate					
ITEM	COMPONENT	DESCRIPTION 1	DESCRIPTION 2	DESCRIPTION 3	NOTE
FP1	PROTECTION RELAY	PROTECTION RELAY			TYPE-1A
S2.O	PUSH BUTTON	OPEN	COMMAND	CONTACTOR	TYPE-5A
S1.C	PUSH BUTTON	CLOSE	COMMAND	CONTACTOR	TYPE-5A
SA1	SELECTOR SWITCH	LOCAL / REMOTE			TYPE-2A
PR	LIGHT PUSH BUTTON	RESET	LOCK-OUT	TRIP LOCK-OUT	TYPE-5A
C1	PILOT LIGHT	VOLTAGE	PRESENCE		TYPE-2A
P1	PUSH BUTTON	TRUCK-DOOR	ENABLING	ENABLING	TYPE-5A











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+A7
DWG n° : 231151/SD/19
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

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ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
Door Layout

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

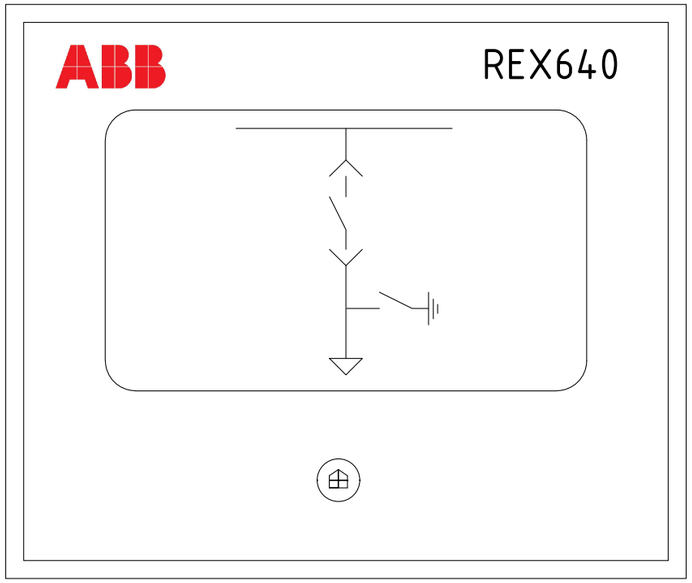
SHEET 4

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

PROTECTION DISPLAY



LHMI - TOUCH DISPLAY

- COMMANDS "CLOSE CONTACTOR " AND "OPEN CONTACTOR" NOT ENABLED
- PUSH BUTTON "REMOTE / LOCAL" NOT ENABLED

LEDs PAGE 1				
Item	NAME PLATE	COLOUR		Note
		ALARM	OK	
LED-1	27-1/27-2/59-1/59-2 - VOLTAGE PROTECTION	RED	-	ALARM = OVER/UNDER VOLTAGE PROTECTION
LED-2	CONTACTOR READY (TCS)	-	GREEN	OK = TCS OK (CONTACTOR READY)
LED-3	SYNCHRO CHECK		GREEN	OK = SYNCHRONISM
LED-4	CONTACTOR READY TO CLOSE	-	GREEN	OK = CONTACTOR READY TO CLOSE
LED-5	50-1/51-1/67-1/67-2 - TRIPPED	RED	-	ALARM = OVERCURRENT PROTECTION TRIPPED
LED-6	51N/59N-1/59N-2 - TRIPPED	RED	-	ALARM = EARTH PROTECTION TRIPPED
LED-7	EARTHING SWITCH UNLOCKED	-	GREEN	OK = EARTHING SWITCH UNLOCKED
LED-8	RACK-IN/OUT ENABLED	-	GREEN	OK = CONTACTOR TRUCK UNLOCKED
LED-9	ARC PROTECTION TRIPPED	RED	-	ALARM = TRIP ARC PROTECTION
LED-10	GOOSE ALARM	RED	-	ALARM = GOOSE FAULT
LED-11	EMERGENCY OPENING BY SIS (ESD)	RED	-	ALARM = ESD TRIPPED

LEDs PAGE 2				
Item	NAME PLATE	COLOUR		Note
		ALARM	OK	
LED-12	SPACE HEATER "ON"	RED	-	ALARM = SPACE HEATER "ON"
LED-13	TRANSF. PROTECTIONS	RED		ALARM = PROTECTIONS TRIP
LED-14	FUSES TRIP	RED		ALARM = FUSES TRIP
LED-15	TRIP FROM L.V.	RED		ALARM = L.V. TRIP
LED-16				
LED-17				
LED-18				
LED-19				
LED-20				
LED-21				
LED-22				

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+A7

DWG n° : 231151/SD/19
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CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
Protection Display REX640

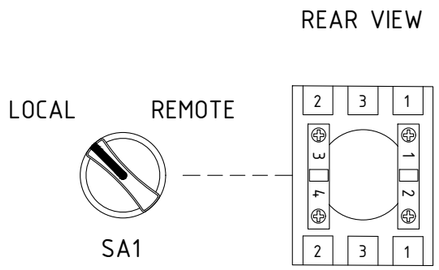
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A3 | DRAWING NO. 1723002197-EL-DG-00019 | SHEET 5 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

SELECTORS SWITCH DIAGRAM



NOTES

THE DIAGRAM INDICATES THE FOLLOWING CONDITIONS:
-INSERTED CONTACTOR IN OPEN POSITION
-DE-ENERGIZED CIRCUITS
-EARTHING SWITCH OPEN

THE AUXILIARY CIRCUITS WILL HAVE THE FOLLOWING CHARACTERISTICS:
-110+ / 24+ 1,5mmq RED TYPE CABLE SH-W
-110- / 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

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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+A7					
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Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
Selector Switch Diagram

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

SCALE : NTS

A3

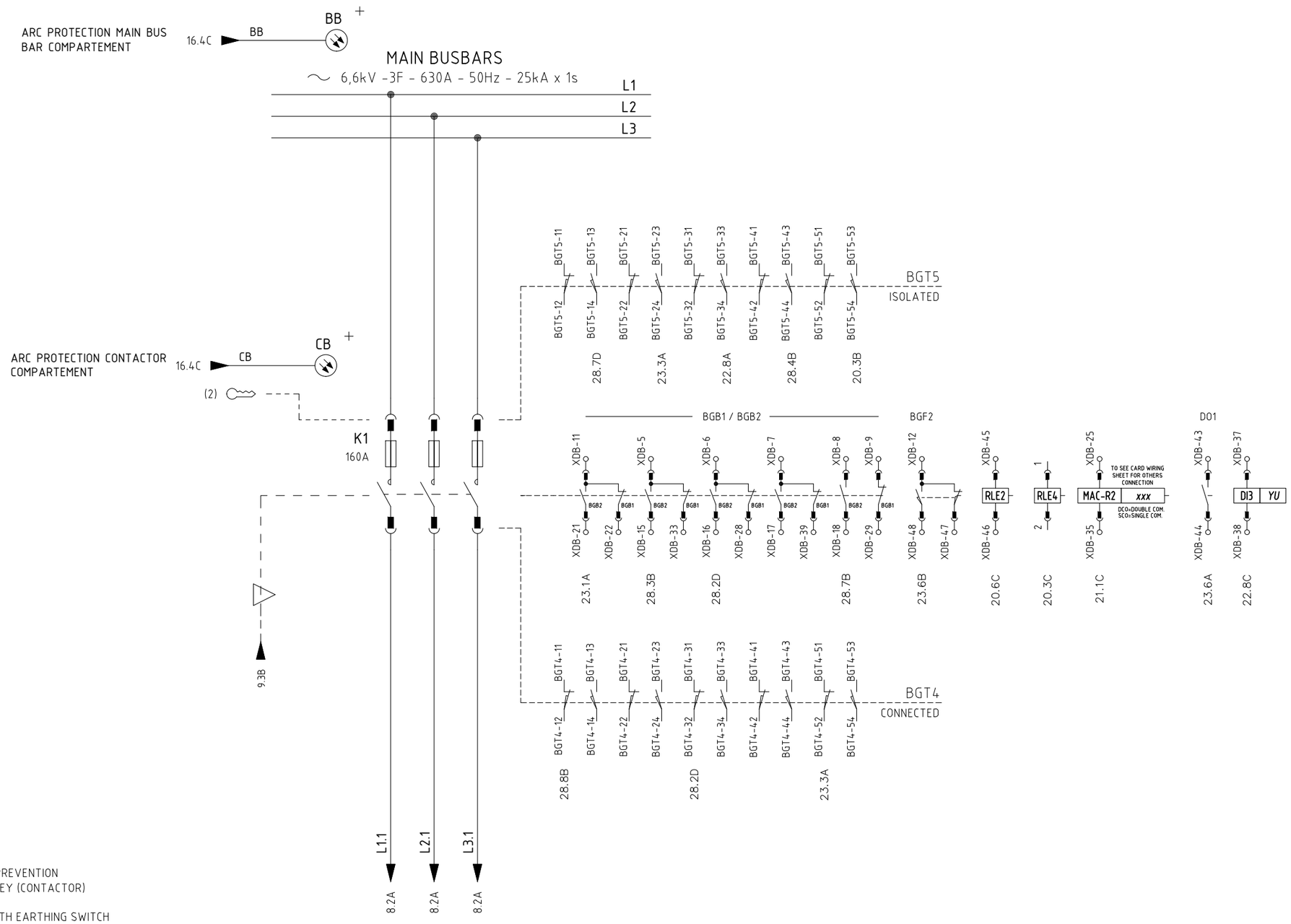
DRAWING NO. 1723002197-EL-DG-00019

SHEET 6

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03



(2) RACKING IN PREVENTION LOCK WITH KEY (CONTACTOR)

(3) FREE KEY WITH EARTHING SWITCH IN OPEN POSITION

(4) FREE KEY WITH EARTHING SWITCH IN CLOSED POSITION

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Item n° : PF1113279

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000

Power Diagram

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

SCALE : NTS

A3

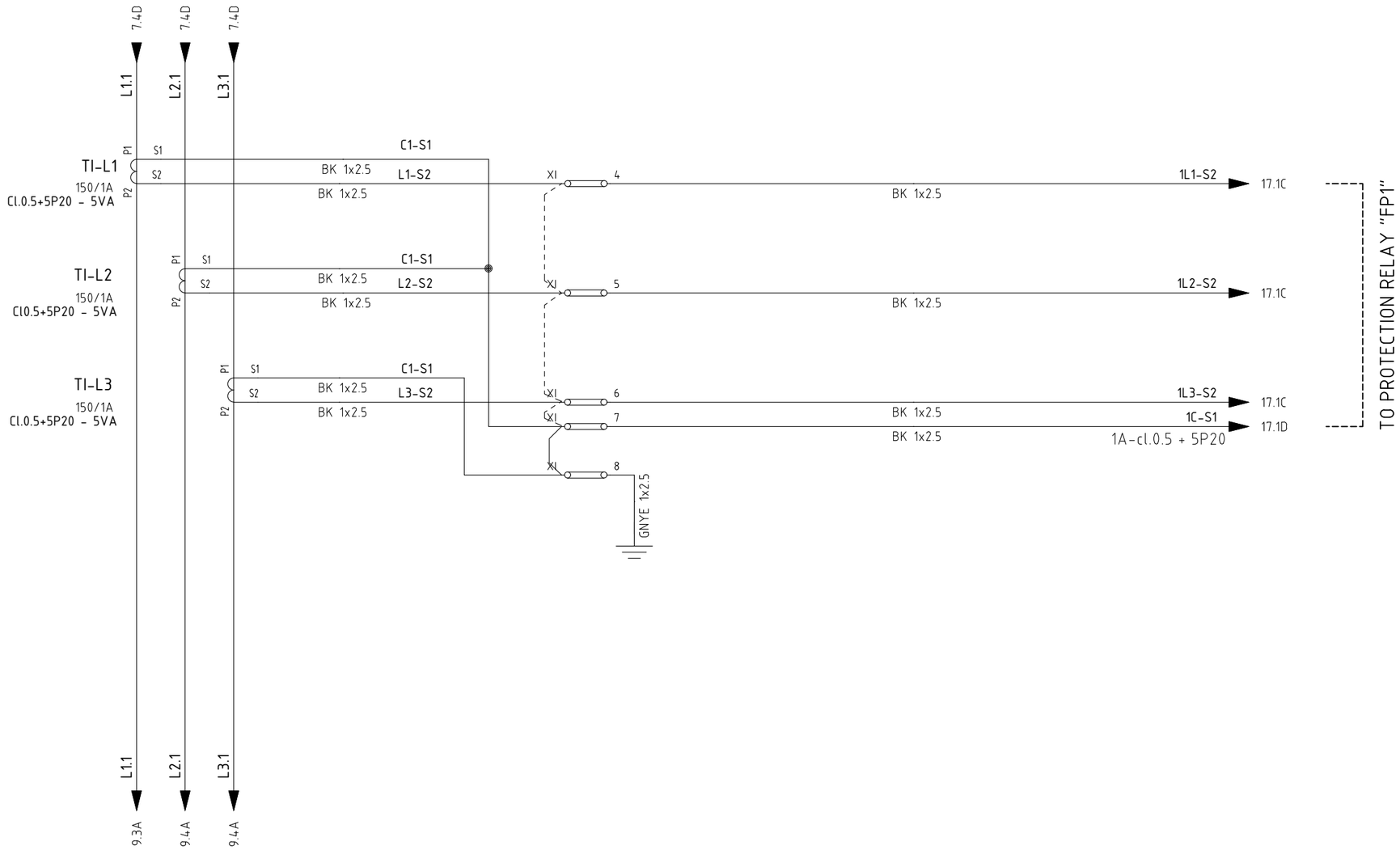
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SHEET 7

REV. 03

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IMESA ELECTRICAL ENGINEERING

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SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
Power Diagram

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

SCALE : NTS

A3

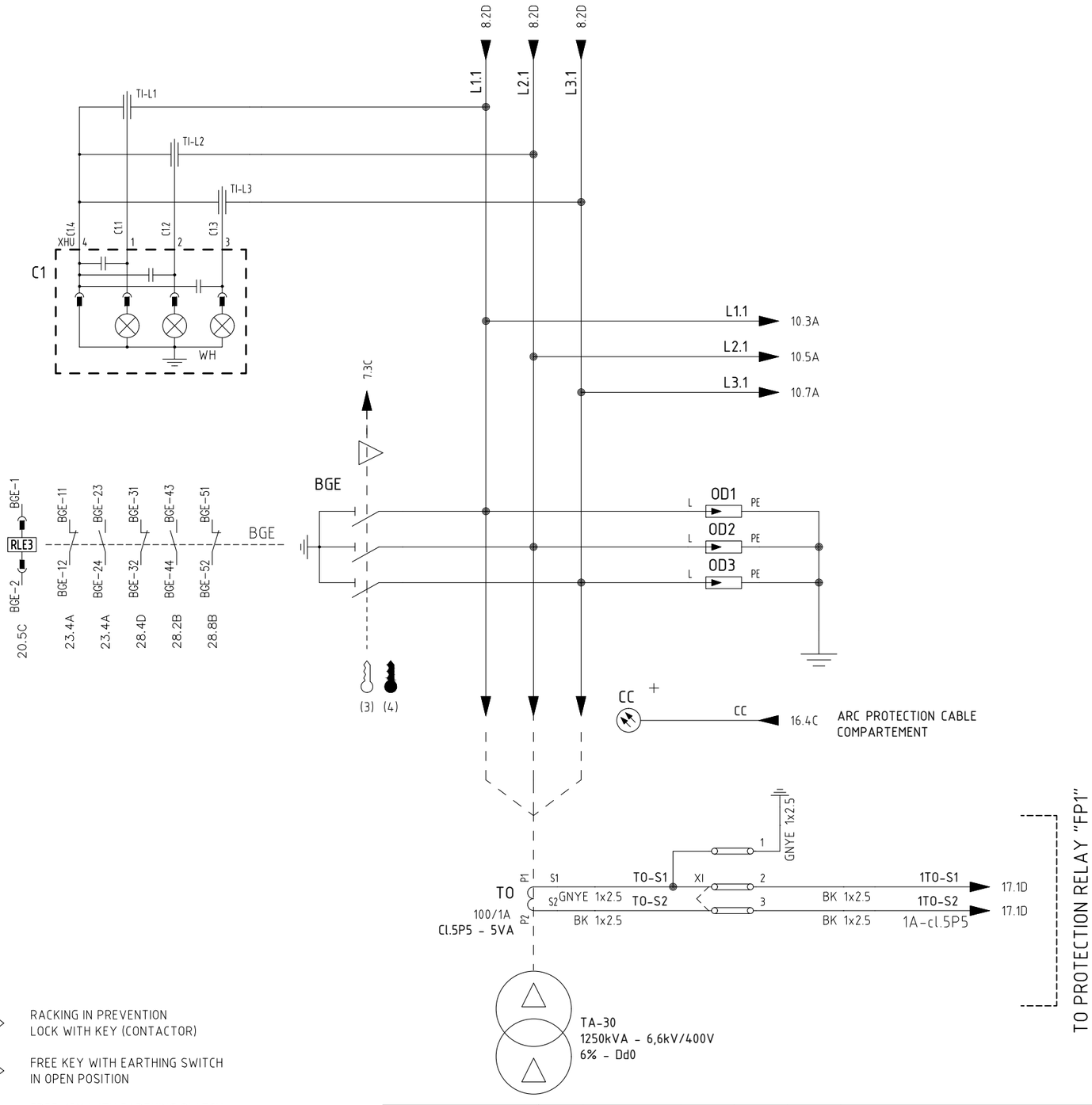
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SHEET 8

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03



(2) RACKING IN PREVENTION LOCK WITH KEY (CONTACTOR)

(3) FREE KEY WITH EARTHING SWITCH IN OPEN POSITION

(4) FREE KEY WITH EARTHING SWITCH IN CLOSED POSITION

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IMESA ELECTRICAL ENGINEERING

CROSSWIND

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TITLE :

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Power Diagram

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

SCALE : NTS

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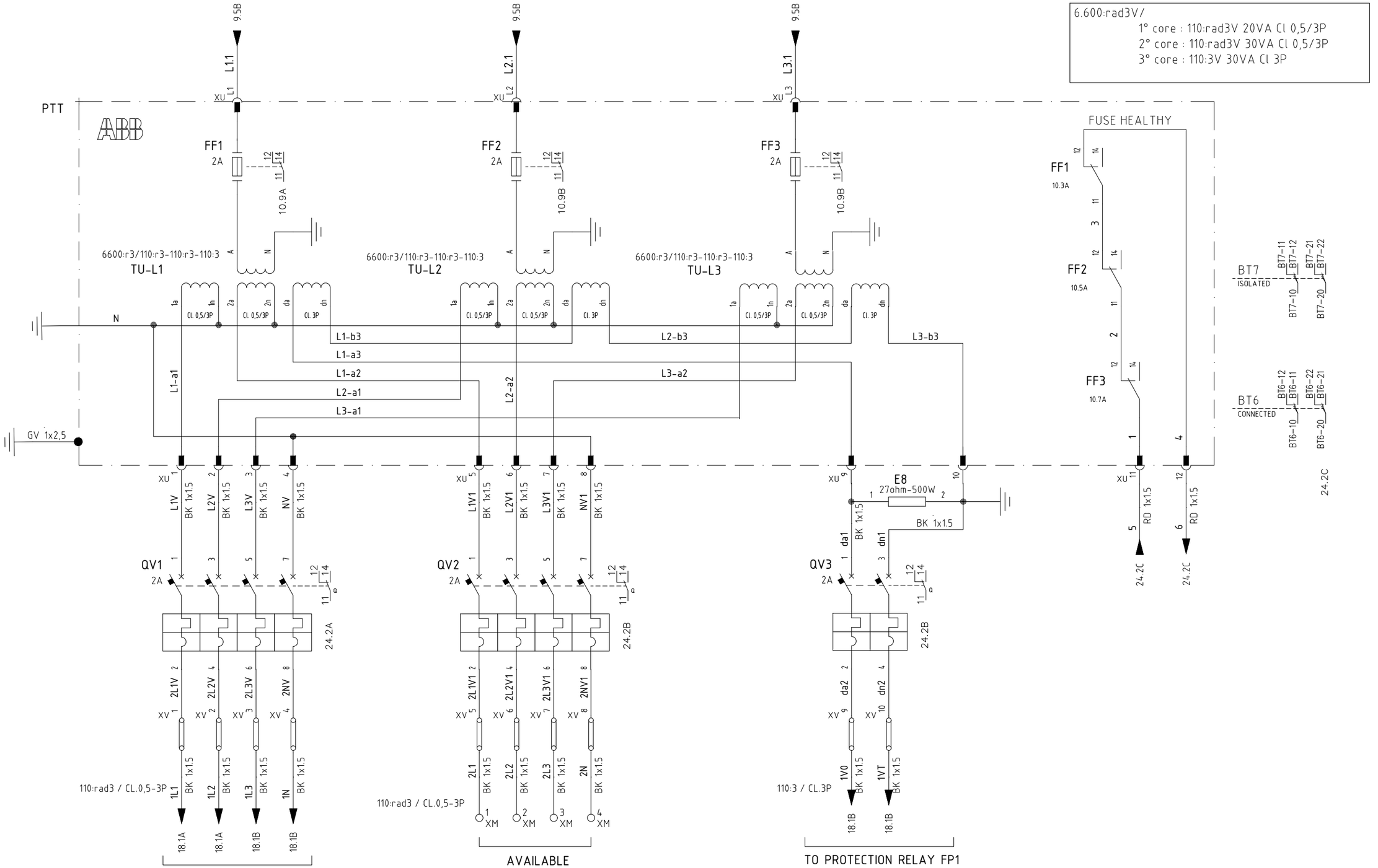
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SHEET 9

REV. 03

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IMESA ELECTRICAL ENGINEERING

CROSSWIND

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SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000

Power Diagram

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SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

SHEET 1.0

REV. 03

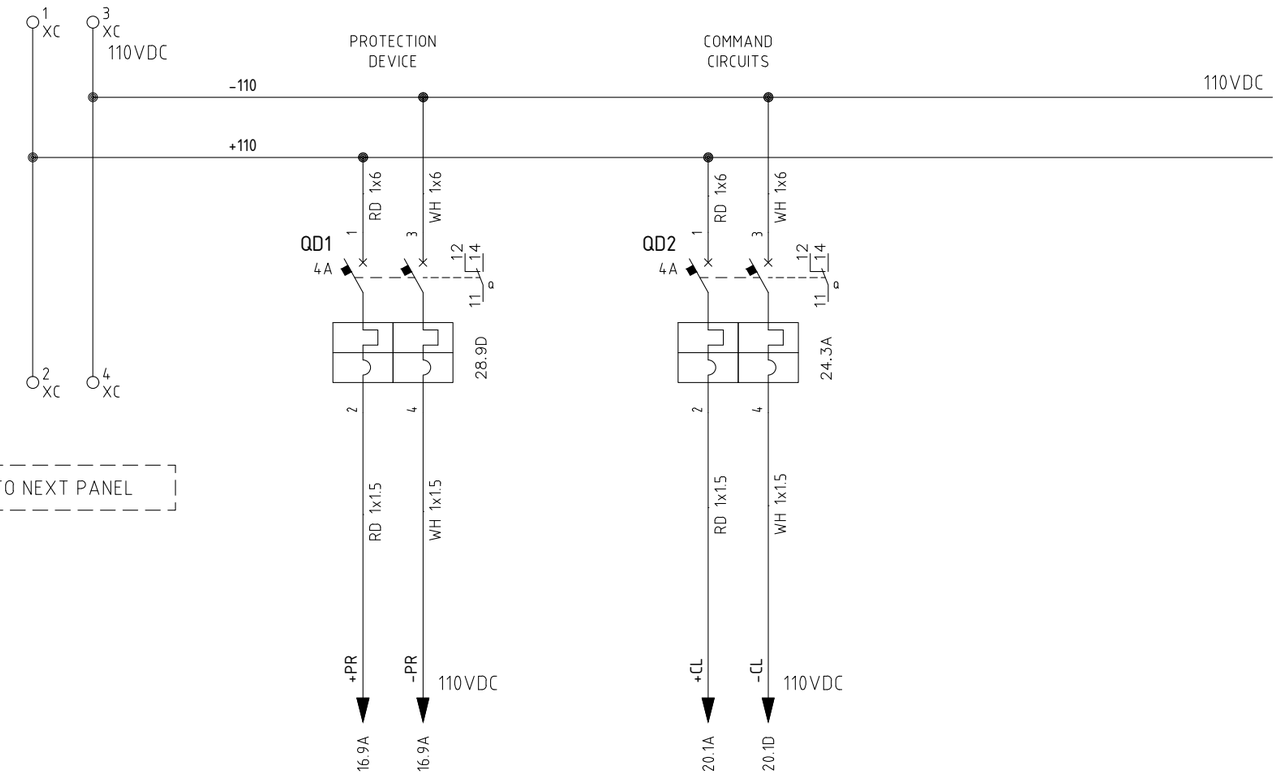
F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

110VDC DISTRIBUTION VOLTAGE

110Vdc Auxiliary Voltage
from Measuring Bus Bar Unit

FROM PREVIOUS PANEL

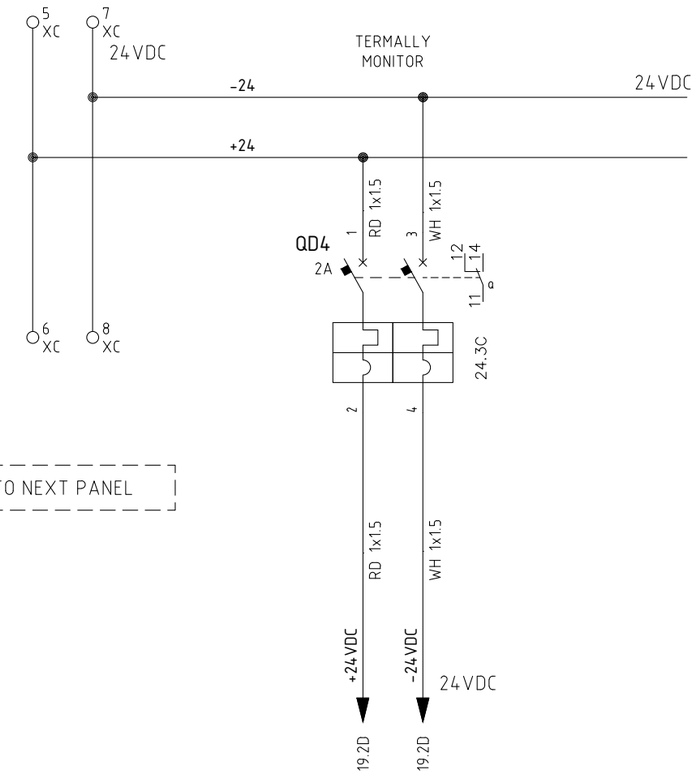


TO NEXT PANEL

24VDC DISTRIBUTION VOLTAGE

24Vdc Auxiliary Voltage
from Measuring Bus Bar Unit

FROM PREVIOUS PANEL



TO NEXT PANEL

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CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
110Vdc / 24Vdc Distribution Voltage

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DRAWING NO. 1723002197-EL-DG-00019

SHEET 1.1

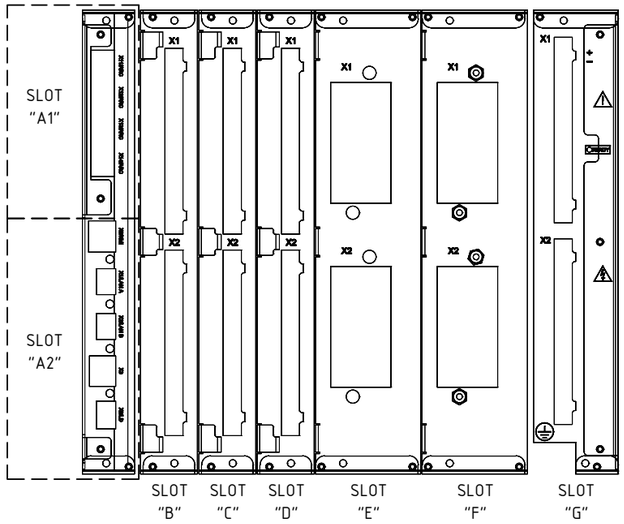
REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

COMPOSITION RELAY REX640

RACK VIEW



REX640B10NN+COM1+ARC1+BIO1+BIO1+BIO2+AIM1+AIM1+PSM3+MCT1+SCT1+CMP2+LNG1+PCL4

LEGEND		
SLOT	Module Type	Description Module
A1	ARC1001	n° 4 x ARC sensor inputs
A2	COM1001	n° 1 x RJ-45 (LHMI port) + n° 3 x RJ-45 + n° 1 x SFP100M LC
B	BIO1001	n° 14 Binary Input + n° 8 x SO
C	BIO1001	n° 14 Binary Input + n° 8 x SO
D	BIO1002	n° 9 Binary Input + n° 6 x SPO + n° 2 x SPO(TCS)
E	AIM1001	n° 4 x CT + n° 1 x CT (sensitive, for residual current only) + n° 5 x VT
F	AIM1001	n° 4 x CT + n° 1 x CT (sensitive, for residual current only) + n° 5 x VT
G	PSM1003	77...150 VDC, n° 3 x PO (TCS) + n° 2 x PO + n° 3 x SO + n° 2 x SSO
	PO = Power Output SO = Signal Output SPO = Static Power Output SSO = Static Signal Output	

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+A7

DWG n° : 231151/SD/19
Item n° : PF1113279

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
Composition Relay REX640

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

A3 | DRAWING NO. 1723002197-EL-DG-00019 | SHEET 12 | REV. 03

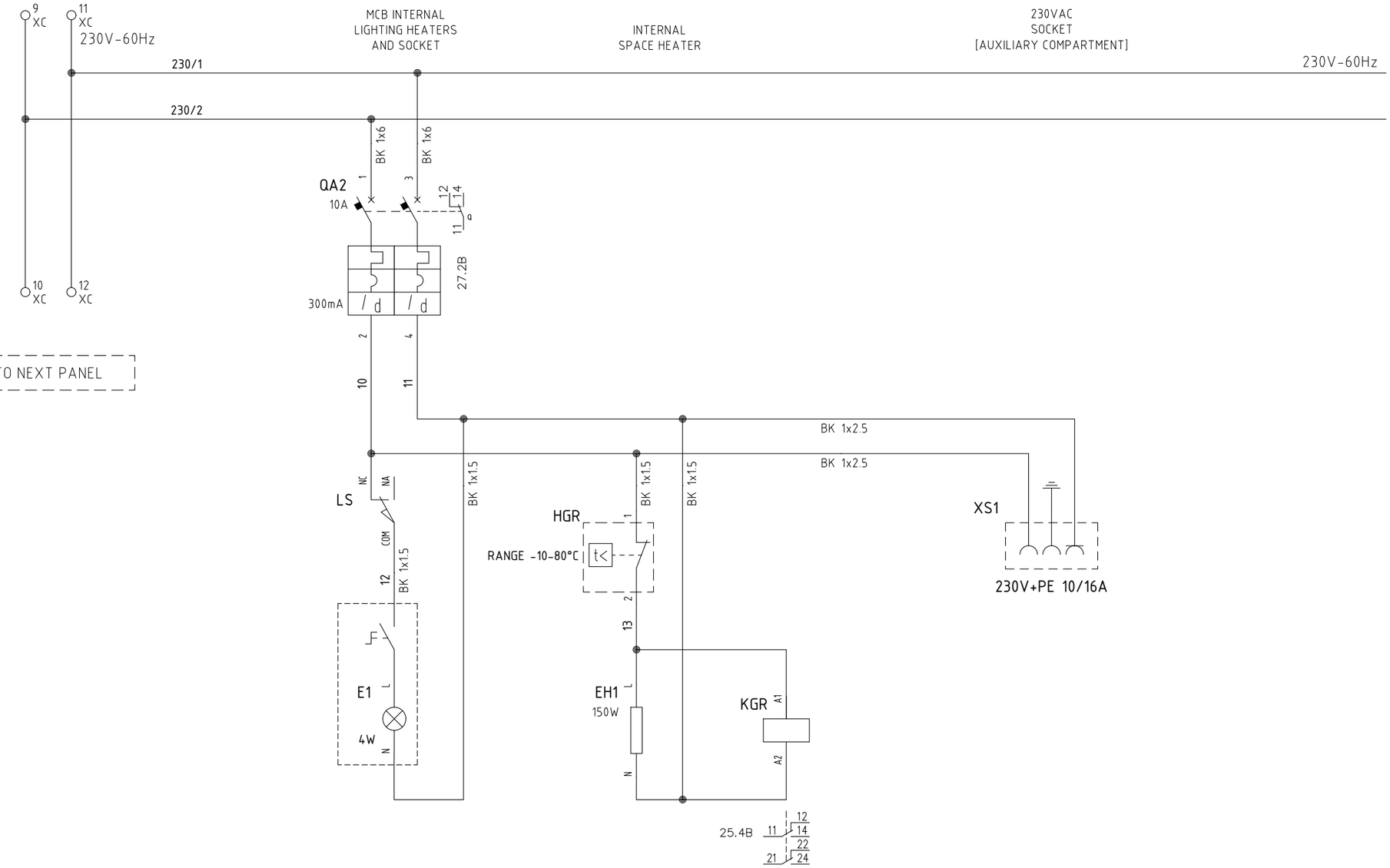
F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

230VAC DISTRIBUTION VOLTAGE

230Vac Auxiliary Voltage
from Measuring Bus Bar

FROM PREVIOUS PANEL



TO NEXT PANEL

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

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+A7

DWG n° : 231151/SD/19
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
230Vac Distribution Voltage

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

SHEET 1,3

REV. 03

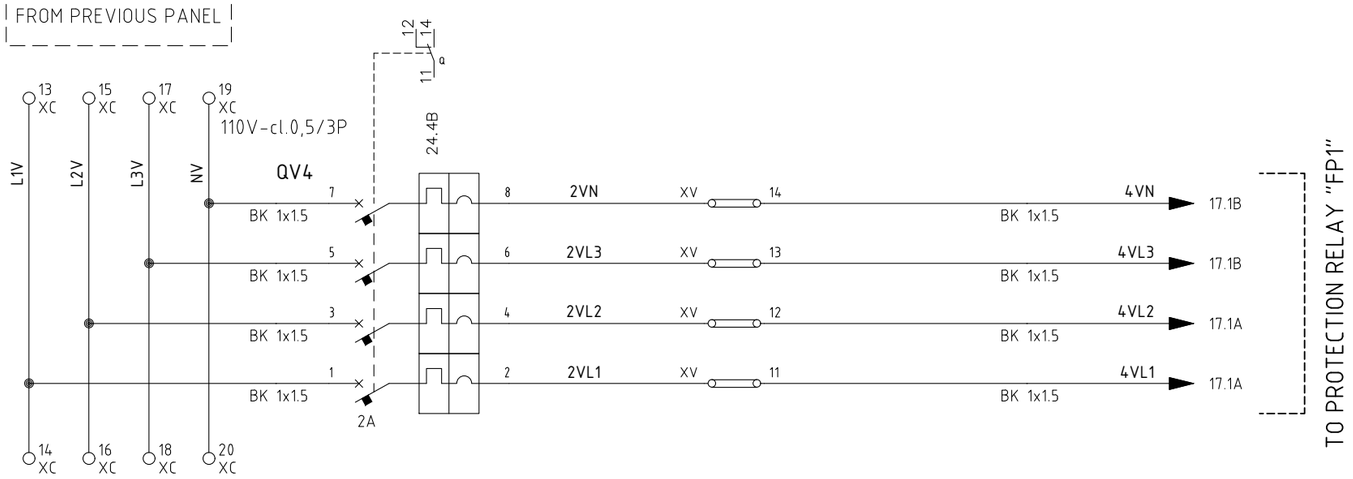
F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

110V: 1,73 DISTRIBUTION VOLTAGE VT'S FROM MAIN BUS BAR

MAIN BUS BAR
110:√3V VOLTMETRIC LINE - STAR
(FOR PROTECTION/MEASURE)

FROM PREVIOUS PANEL



TO NEXT PANEL

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+A7					
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
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0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

DWG n° : 231151/SD/19
Item n° : PF1113279

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
110V Protection/Measure Distribution Voltage

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

SHEET 1.4

REV. 03

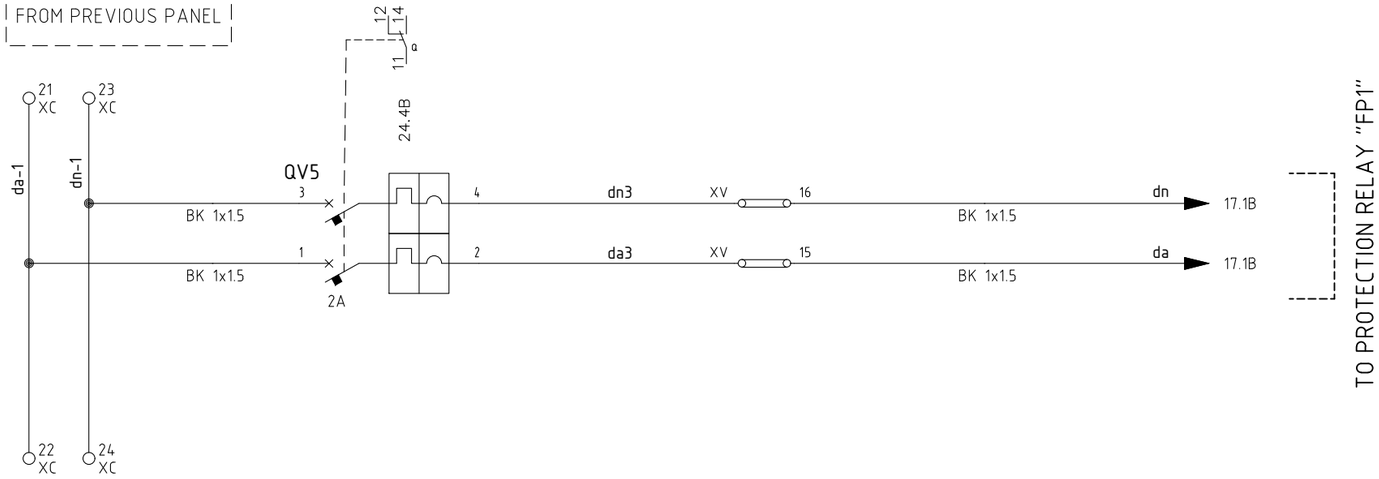
F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

110V:3 DISTRIBUTION VOLTAGE VT'S FROM MAIN BUS BAR

MAIN BUS BAR
110:3V VOLTMETRIC LINE -
DELTA OPEN
(FOR PROTECTION/MEASURE)

FROM PREVIOUS PANEL



TO PROTECTION RELAY "FP1"

TO NEXT PANEL

=							
+A7							
	3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
	2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
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	0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
	REV.	DATE	DRN	CHKD	APPD	DESCRIPTION

DWG n° : 231151/SD/19
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING
CROSSWIND
ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
110V Protection/Measure Distribution Voltage

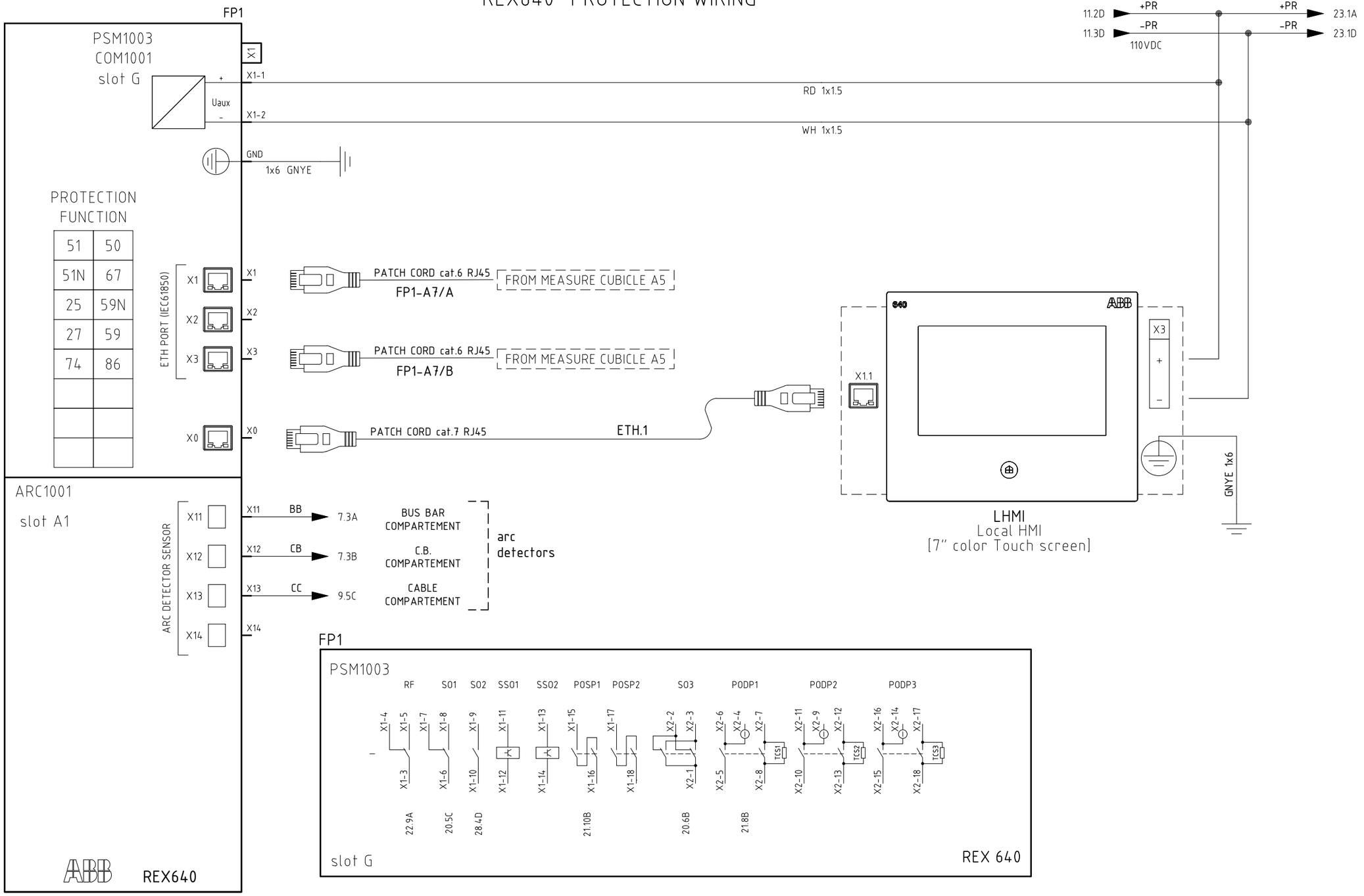
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1723002197-EL-DG-00019 | SHEET 1.5 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

"REX640" PROTECTION WIRING



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
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0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

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+A7

DWG n° : 231151/SD/19
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
"REX640"' Protection Wiring

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

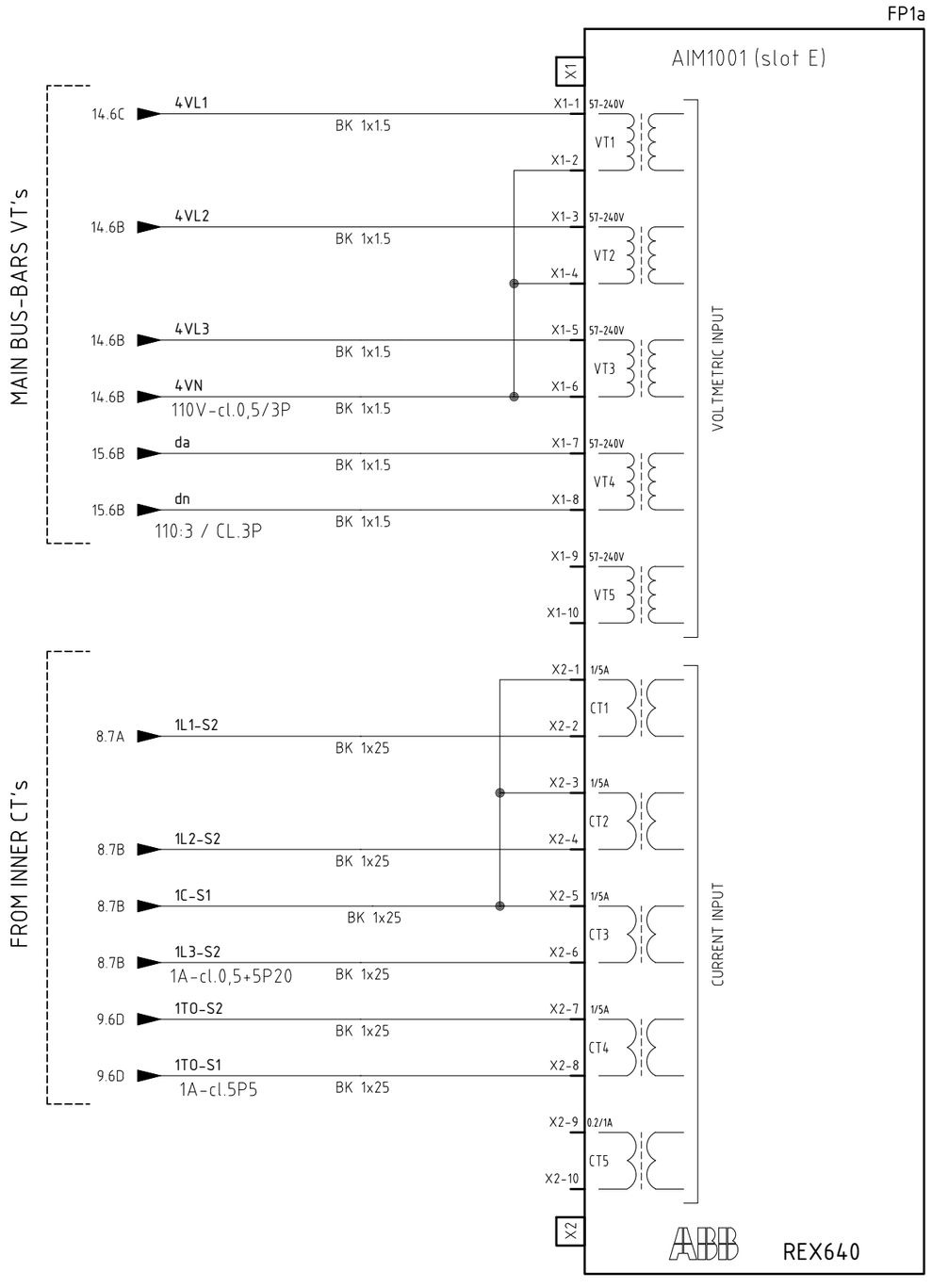
SHEET 16

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

"REX640" PROTECTION WIRING



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
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0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

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+A7
DWG n° : 231151/SD/19
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
"REX640"' Protection Wiring

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

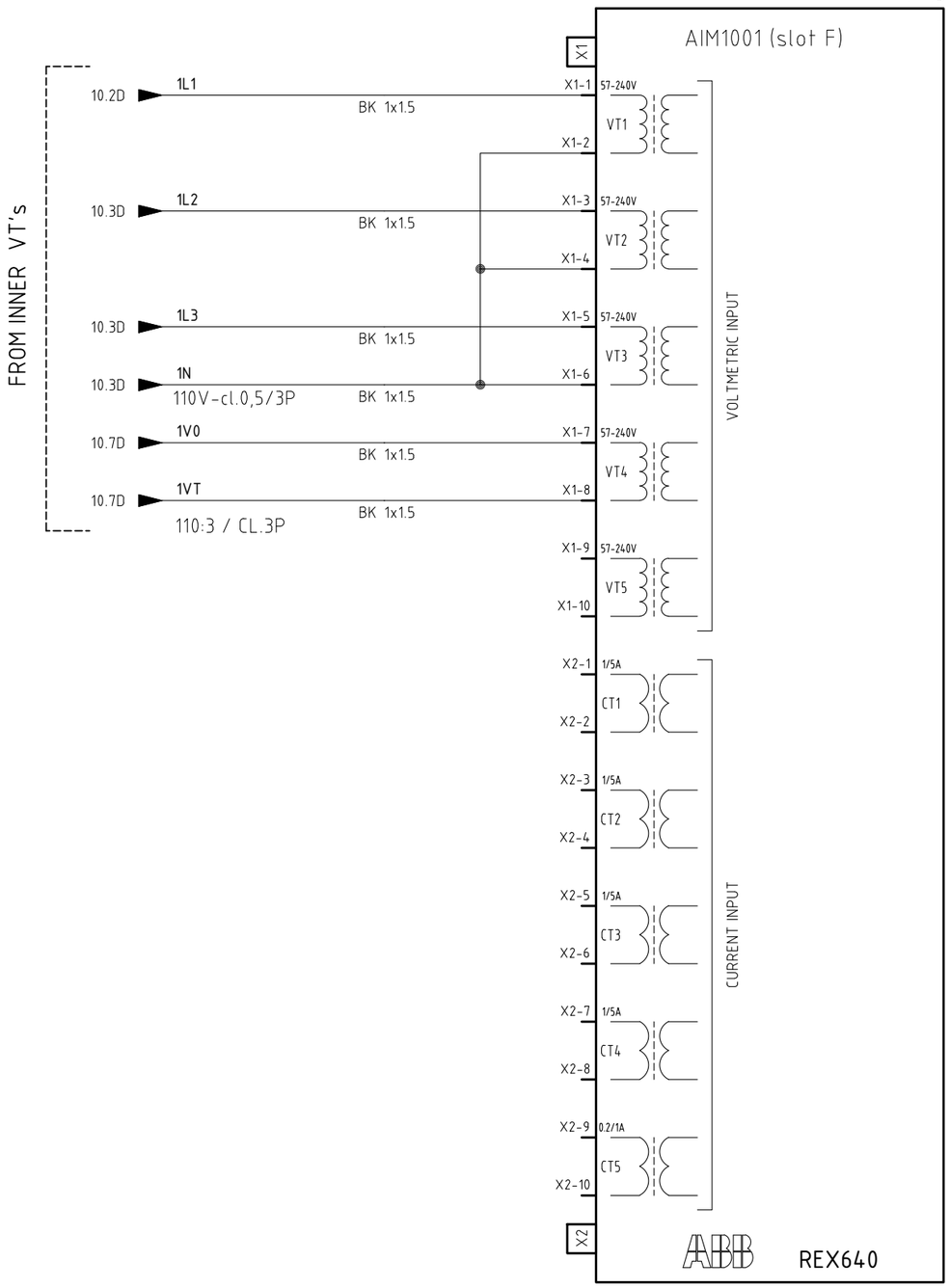
SHEET 1.7

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

"REX640" PROTECTION WIRING



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+A7							
DWG n° : 231151/SD/19	3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)	
Item n° : PF1113279	2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)	
	1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)	
	0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)	
	REV.	DATE	DRN	CHKD	APPD	DESCRIPTION	

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000

"REX640"' Protection Wiring

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

SCALE : NTS

A3

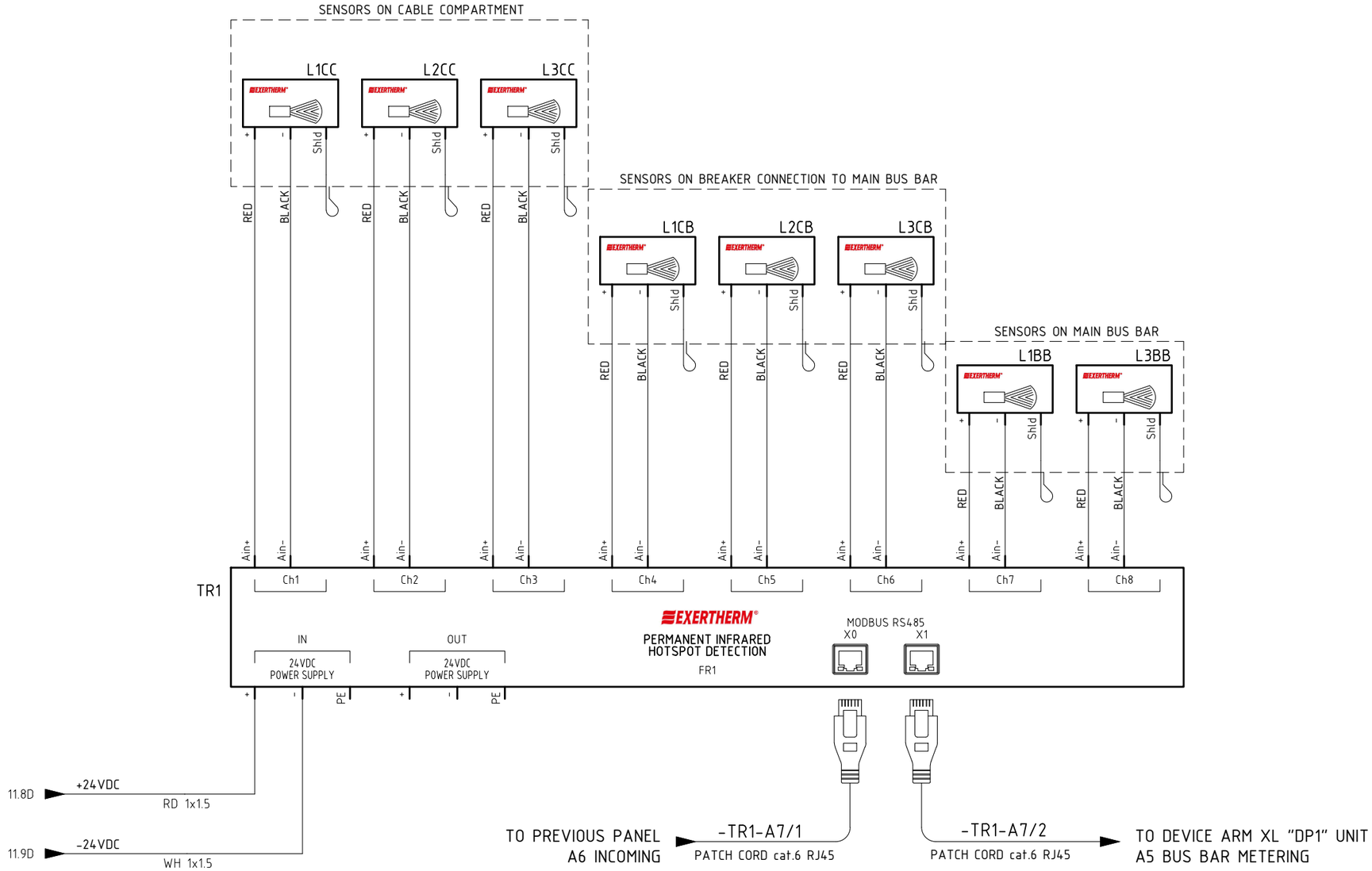
DRAWING NO. 1723002197-EL-DG-00019

SHEET 18

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03



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+A7

DWG n° : 231151/SD/19
Item n° : PF1113279

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
Extherm Device

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

A3 | DRAWING NO. 1723002197-EL-DG-00019 | SHEET 1.9 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

COMMAND CIRCUITS

ENABLING CONTACTOR TRUCK ENCLOSURE DOOR AND EARTHING SWITCH

UNLOCKING CONTACTOR ENCLOSURE DOOR

ENABLING EARTHING SWITCH COMMAND

ENABLING RACK-IN AND RACK-OUT CONTACTOR [LOCKING MAGNET]

11.4D +CL 110VDC (CL)

+CL 21.1A

RD 1x1.5

P1 BK 13 14

KT1 20.2D 16 18 30" 15

21 RD 1x1.5

K1 ISOLATED BGT5 7.4B BGT5-53 BGT5-54

5 XM 6 XM

FP1 16.3A S03 REX640 X2 Slot G X2-2 X2-3 X2-1

25 7 XM 8 XM

FP1 16.3A S01 REX640 X1 Slot G X1-7 X1-8 23 X1-6 24 RD 1x1.5

BGE-1 BGE-2

26 RD 1x1.5 XDB-45 XDB-46

20 RD 1x15

22 RD 1x15

K1 RLE4 7.4B 1 2

BGE RLE3 9.3C

K1 RLE2 7.4B

KT1 A1 B1 30" A2

11.4D -CL -CL 21.1E

WH 1x1.5

20.3A 15 16 18

23.9A 25 26 28

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
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0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

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DWG n° : 231151/SD/19

Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000

Command Circuit

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

SHEET 20

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

CLOSING/OPENING COMMAND CIRCUITS

POWER SUPPLY MAC-R2 CARD

20.10A +CL 110VDC (CL)

RD 1x1.5

LOCAL OPENING COMMAND

S20 23 24 25.2A

K86 TRIP RELAY

K86 40A 41A 4A 22.2D

AVAILABLE OPENING COMMAND

AVAILABLE OPENING COMMAND

AVAILABLE OPENING COMMAND

9 XM 10 XM EXT

11 XM 12 XM EXT

13 XM 14 XM EXT

30

OPENING COMMAND

FP1 Slot G 16.3A

PODP1 X2-4 X2-6 29 X2-5

PO1_TCS X2-7 X2-8

REX640 X2 (PSM)

CLOSING COMMAND

FP1 16.3A X1-15 X1-16

POSP1 REX640 X1 Slot G

+CL 22.1A

RD 1x1.5

RD 1x1.5

RD 1x1.5

RD 1x1.5

31

XDB-25 XDB-43 XDB-4 XDB-41 XDB-31 XDB-13

K1

DO 1

BGT3 BGF1

BGF1

BGF1

BGB2

MBO MBC

OPENING COIL CLOSING COIL

XDB40-1 XDB40-2

0 PGC Electric Counter

AA 7.4B

DI 1 CLOSING

DI 2 OPENING

CONTROL UNIT
Type MAC R2
(DCO - Double Command Operated)

XDB-35 XDB-44 XDB-14 XDB-30 XDB-1 GNYE 1x2.5 XDB-40 GNYE 1x2.5

20.10D -CL

-CL 22.1D

WH 1x1.5

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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= +A7

DWG n° : 231151/SD/19

Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000

Command Circuit

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

SHEET 21

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

COMMAND CIRCUITS

21.10A +CL 110VDC (OP)

OUTPUT PROTECTION RELAY — FP1c 23.1C — X2-4 — S01 REX640 X2 Slot B — X2-3 — 35

AVAILABLE — 15 XM

AVAILABLE — 17 XM

TRANSFORMER TRIP WINDING TEMPERATURE — K94WT 22.10D — 12 14 11

LOCAL RESET — PR — 13 14 — X2 X1 22.6D

REMOTE RESET — FP1c 23.1C — X2-10 — S04 REX640 X1 Slot B — X2-9

RD 1x1.5

TRIP LOCK-OUT RELAY — K86 22.2D — 20B 21B 2B

CONTACTOR ISOLATED — KSIL 26.5B — 13 14 — 38 — 1x1.5 RD — 19 XM — 20 XM

UNDERVOLTAGE — 39 — 1x1.5 RD

CONTACTOR ISOLATED — K1 ISOLATED BGT5 7.4B — BGT5-33 BGT5-34 — 41 — 1x1.5 RD

KIRF 22.9D — 22 24 — 21 — 40 — 1x1.5 RD

K86 22.2D — 10B 11B — 18

XDB-37

K1 — DI 3 7.4B UNDERVOLTAGE

XDB-38

PR 22.4A — X1 X2

WATCHDOG PROTECTION DUPLICATION — FP1 16.3A — X1-4 X1-5 — RF REX640 X1 Slot G — X1-3 — 42 — 1x1.5 RD

TRANFORMER TRIP WINDING TEMPERATURE — 21 XM — 26WT — 22 XM — 43 — 1x1.5 RD

+CL /./

21.10E -CL — WH 1x1.5 — -CL /./

K86 B1 C S B2 — C RESET — 1

KIRF A1 A2

K94WT A1 A2

20A 2A 21A 30A 3A 31A 40A 21.5B 4A 41A 10B 22.8B 1B 11B 20B 22.6B 2B 21B 30B 23.5A 3B 31B 40B 28.5B 4B 41B

28.9D 11 12 14 22.7A 21 22 24 31 32 34 41 42 44

22.4A 11 12 14 24.10B 21 22 24 31 32 34 41 42 44

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+A7						
DWG n° : 231151/SD/19	3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
Item n° : PF1113279	2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
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	0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
	REV.	DATE	DRN	CHKD	APPD	DESCRIPTION

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 – FUNCTIONAL FUEL CELL FEEDER A-80000

Command Circuit

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

SHEET 22

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

"REX640" PROTECTION WIRING - DIGITAL INPUT

CONTACTOR CLOSED | CONTACTOR OPENED | CONTACTOR SERVICE POSITION | CONTACTOR TEST POSITION | EARTH SWITCH OPENED | EARTH SWITCH CLOSED | K86 RELAY TRIPPED | CONTACTOR READY | FUSES TRIPPED | SELECTOR IN LOCAL POSITION | SELECTOR IN REMOTE POSITION | EXTERNAL CLOSING INTERLOCK | FROM L.V. SWBD CB OPENED (CLOSING INTERLOCK) | UNLOCKING EARHTING SWITCH/ TRUCK CONTACTOR

16.10A +PR 110VDC (PR) — RD 1x1.5 — +PR 24.1A

K1 BGB1/2 7.4B — XDB-11 / XDB-21 / XDB-22 — 50 / 51 — X1-1 / X1-2

K1 CONNECTED BGT4 7.4B — BGT4-51 / BGT4-52 — 52 — X1-3

K1 ISOALTED BGT5 7.4B — BGT5-23 / BGT5-24 — 53 — X1-5

BGE BGE 9.3C — BGE-11 / BGE-12 — 54 — X1-6

BGE BGE 9.3C — BGE-23 / BGE-24 — 55 — X1-7

K86 22.2D — 30B / 31B / 3B — 56 — X1-9

K1 D01 7.4B — XDB-43 / XDB-44 — 57 — X1-10

K1 BGF2 7.4B — XDB-12 / XDB-48 / XDB-47 — 58 — X1-11

SA1 — 11 / 12 — 59 — X1-13

SA1 — 13 / 14 — 60 — X1-14

23 XM / 24 XM — 61 — X1-15

L.V.SWITCHBOARD C.B. OPENED — 25 XM / 26 XM — 62 — X1-17

KT1 20.2D — 26 / 28 / 30" / 25 — 63 — X2-1

FP1c BIO1001 SLOT B — BI1 BI2 BI3 BI4 BI5 BI6 BI7 BI8 BI9 BI10 BI11 BI12 BI13 BI14 — REX640

X1-4 / X1-8 / X1-12 / X1-16 / X1-18 / X2-2

16.10A -PR — WH 1x1.5 — -PR 24.1E

FP1c BIO1001 SLOT B — S01 S02 S03 S04 S05 S06 S07 S08 — X2-4 / X2-6 / X2-8 / X2-10 / X2-12 / X2-14 / X2-16 / X2-18 — X2-3 / X2-5 / X2-7 / X2-9 / X2-11 / X2-13 / X2-15 / X2-17 — REX640

22.2A 28.5D 28.6D 22.5A

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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DWG n° : 231151/SD/19

Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000

"REX640" Protection Wiring - Digital Input

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

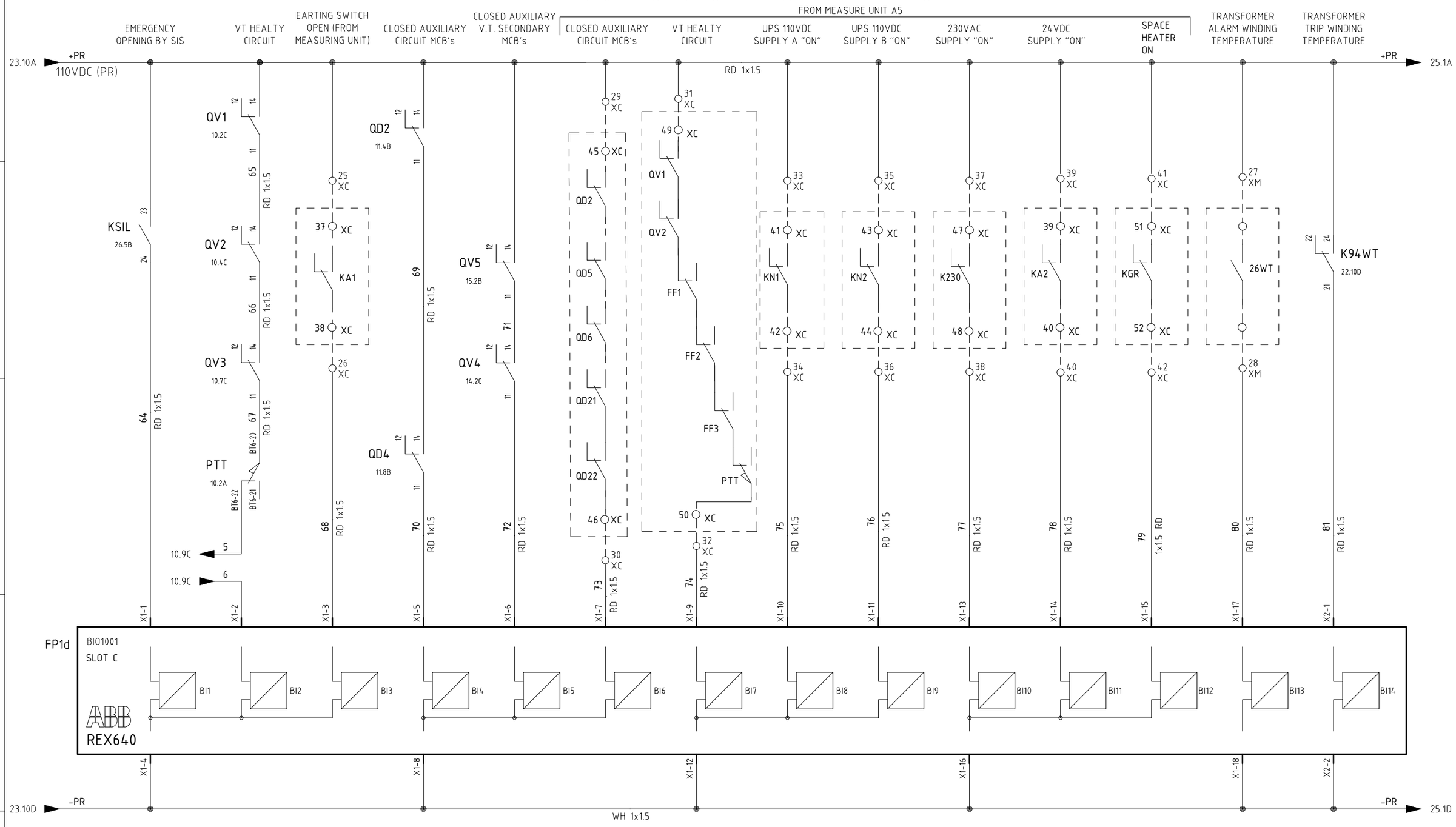
SHEET 23

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

"REX640" PROTECTION WIRING - DIGITAL INPUT



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+A7						
DWG n° : 231151/SD/19	3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
Item n° : PF1113279	2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
	1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
	0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
	REV.	DATE	DRN	CHKD	APPD	DESCRIPTION

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000

"REX640" Protection Wiring - Digital Input

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

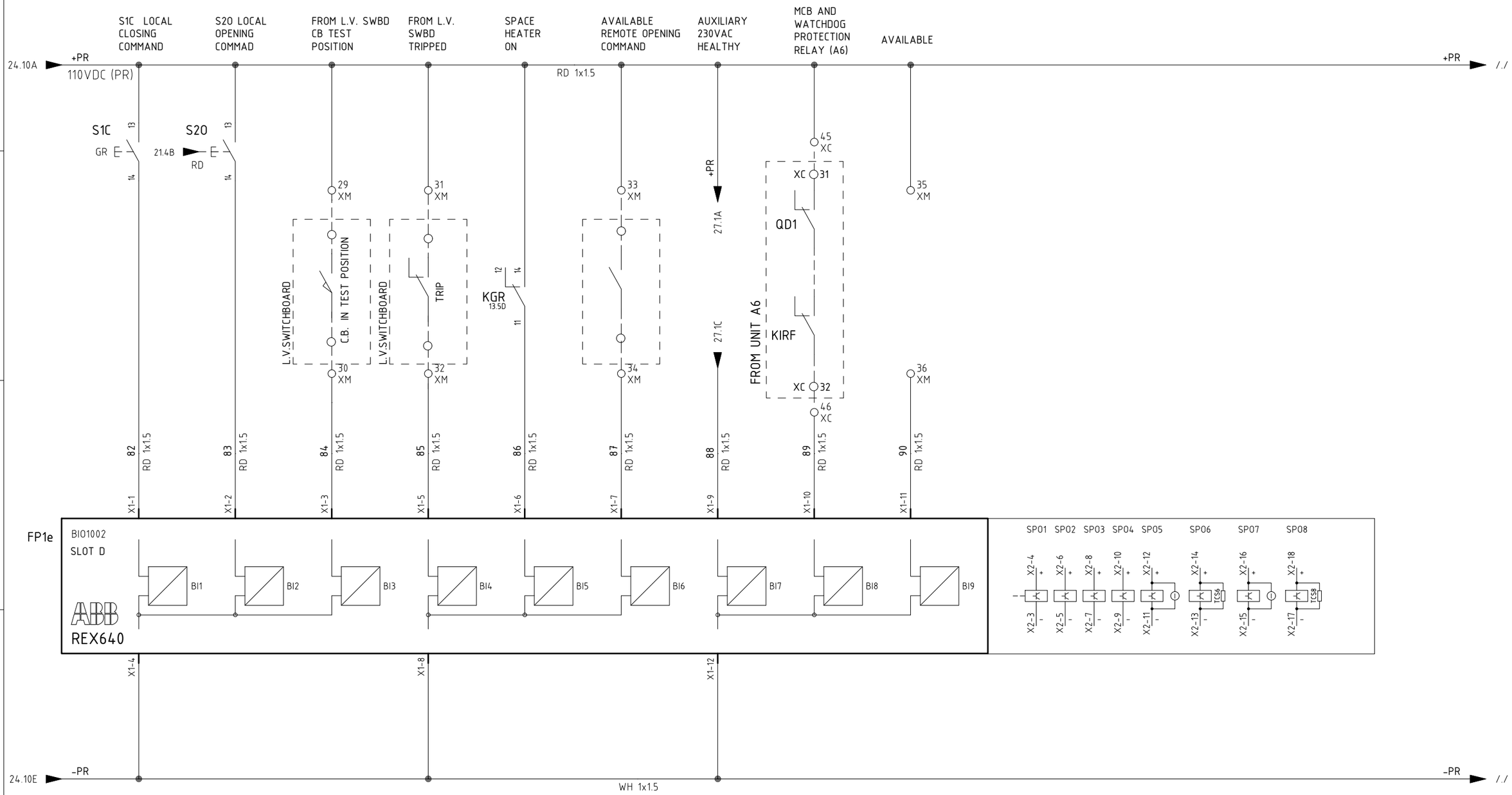
SHEET 2.4

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

"REX640" PROTECTION WIRING - DIGITAL INPUT



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

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DWG n° : 231151/SD/19
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
"REX640" Protection Wiring - Digital Input

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

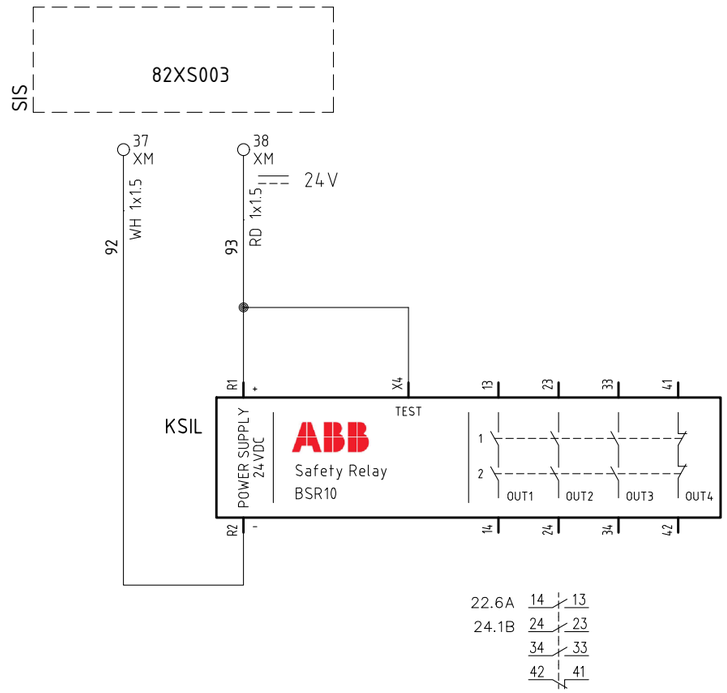
SHEET 25

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

EMERGENCY OPENING BY "SIS"



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

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DWG n° : 231151/SD/19
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
Emergency Opening by "SIS"

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

SCALE : NTS

A3

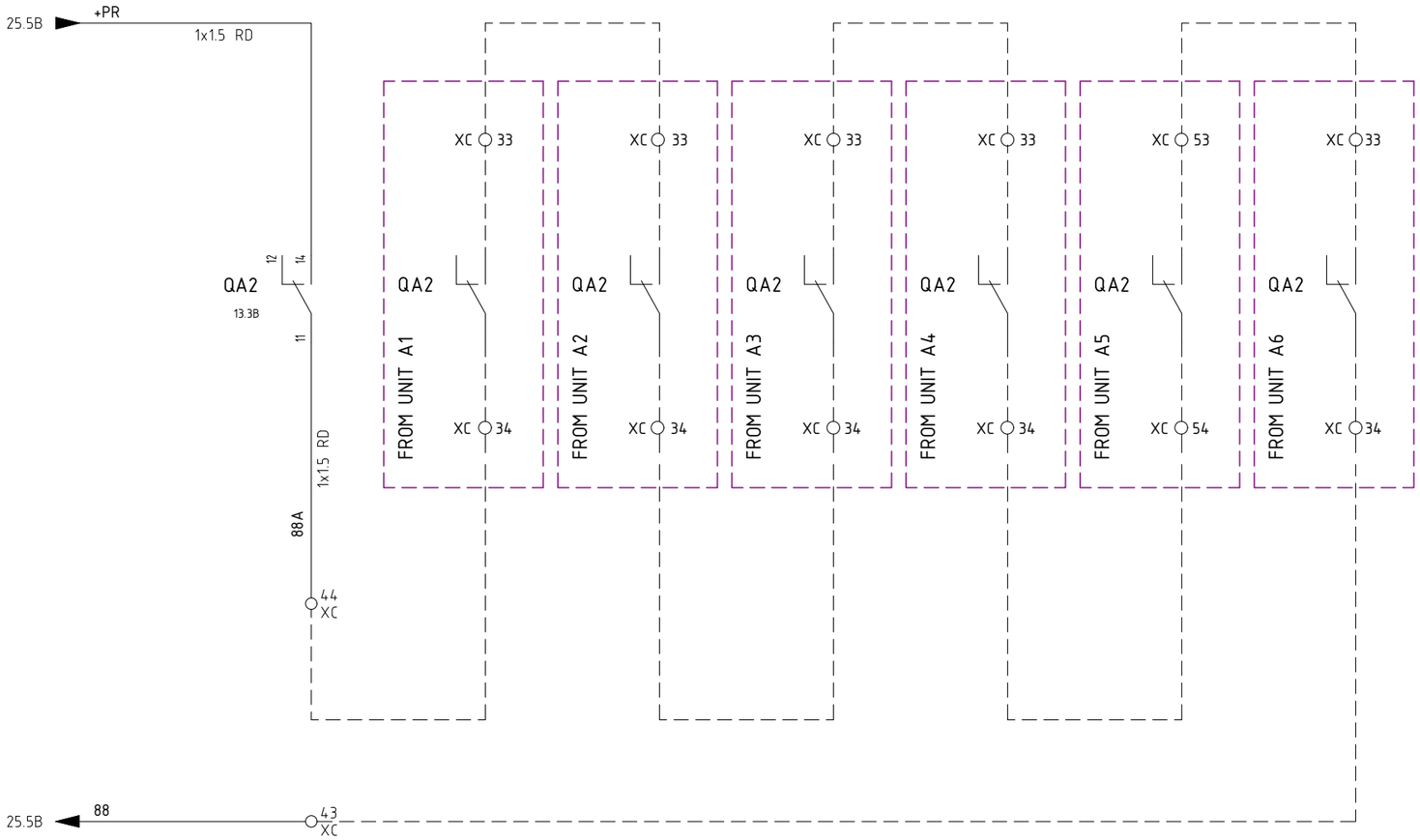
DRAWING NO. 1723002197-EL-DG-00019

SHEET 26

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

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+A7

DWG n° : 231151/SD/19
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
230Vac Auxiliary General Healtly

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

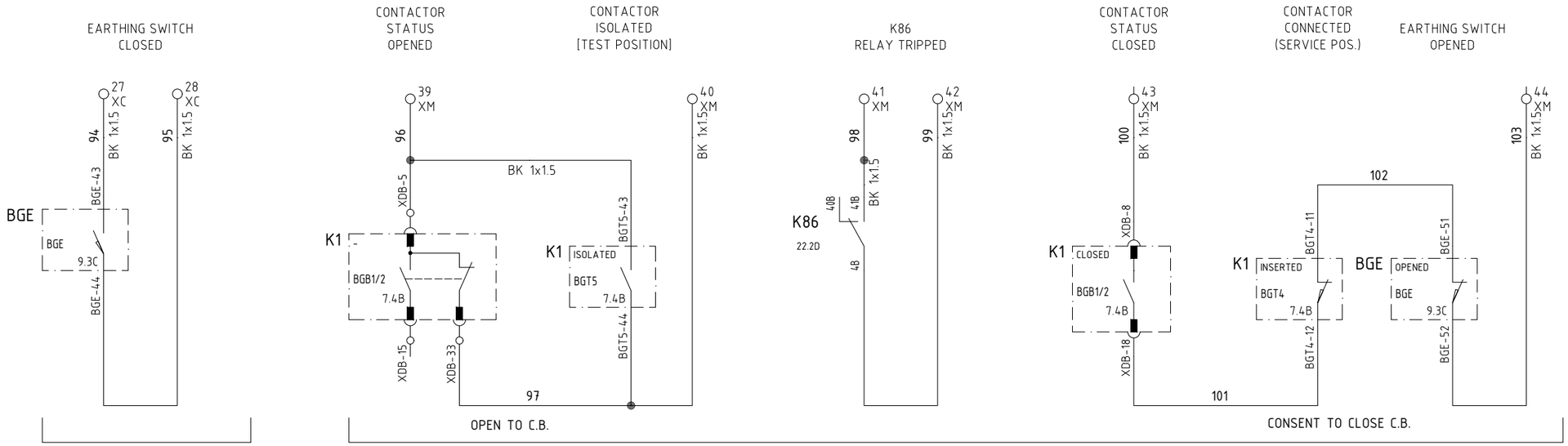
SHEET 27

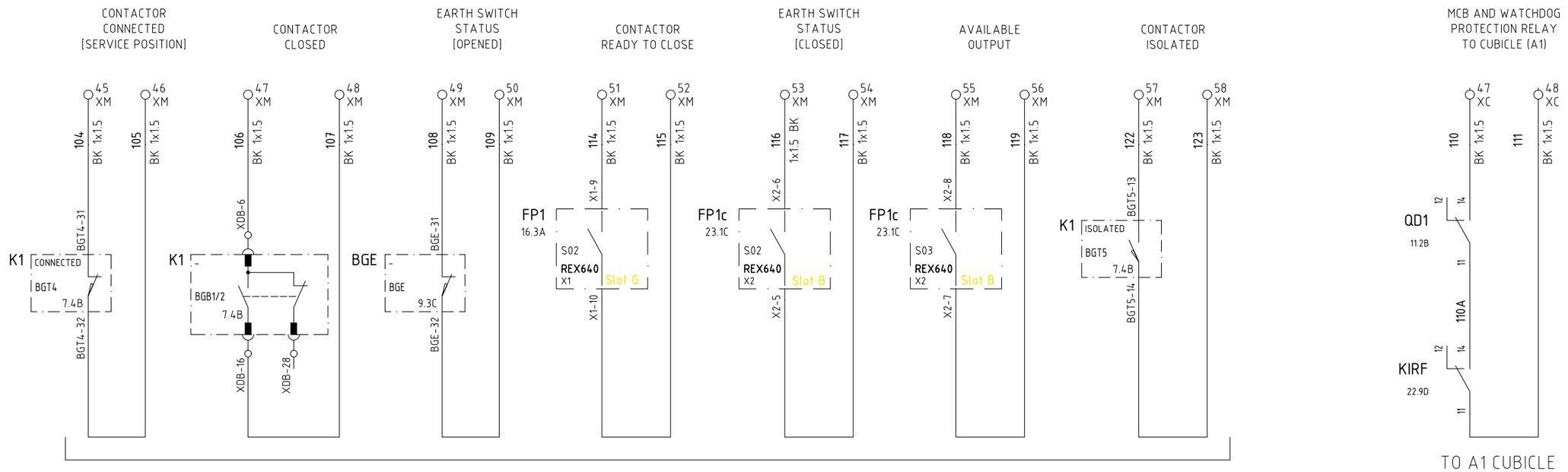
REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

AVAILABLE SIGNALS





AVAILABLE SIGNALS

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3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)		
2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)		
1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)		
0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)		
REV.	DATE	DRN	CHKD	APPD	DESCRIPTION		

DWG n° : 231151/SD/19
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
Availables Signals

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

SHEET 28

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

TYP - FUEL
XI
Ammeter Terminals

NumM	Fg.	Sez.	Tipo	Costruttore	Descrizione
1	9.5D	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
2	9.5D	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
3	9.5D	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
			HL201GR	Cabur	HLD.2/PT/GR End section - Grey
4	8.4A	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
5	8.4B	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
6	8.4B	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
7	8.4B	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
8	8.4B	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
			HL201GR	Cabur	HLD.2/PT/GR End section - Grey

TYP - FUEL
XV
Voltmetric Terminals

NumM	Fg.	Sez.	Tipo	Costruttore	Descrizione
1	10.2D	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
2	10.3D	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
3	10.3D	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
4	10.3D	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
			HB201GR	Cabur	HSCB.6/PT/GR End section - Grey
5	10.4D	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
6	10.5D	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
7	10.5D	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
8	10.5D	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
			HB201GR	Cabur	HSCB.6/PT/GR End section - Grey
9	10.7D	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
10	10.7D	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
			HB201GR	Cabur	HSCB.6/PT/GR End section - Grey
11	14.4C	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
12	14.4B	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
13	14.4B	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
14	14.4B	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
			HB201GR	Cabur	HSCB.6/PT/GR End section - Grey
15	15.4B	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
16	15.4B	6	HB210GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type
			HB201GR	Cabur	HSCB.6/PT/GR End section - Grey

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DWG n° : 231151/SD/19	3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
Item n° : PF1113279	2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
	1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
	0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
	REV.	DATE	DRN	CHKD	APPD	DESCRIPTION

IMESA ELECTRICAL ENGINEERING
CROSSWIND
ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
Terminal strip

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

A3 | DRAWING NO. 1723002197-EL-DG-00019 | SHEET 29 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

TYP - FUEL

XC

Interconnection Terminals

NumM	Fg.	Sez.	Tipo	Costruttore	Descrizione
1	11.1B	6	HM320GR	Cabur	HMM.6/GR Feed-through Terminal Block - Grey (6 mmq)
2	11.1C	6	HM320GR	Cabur	HMM.6/GR Feed-through Terminal Block - Grey (6 mmq)
3	11.1B	6	HM320GR	Cabur	HMM.6/GR Feed-through Terminal Block - Grey (6 mmq)
4	11.1C	6	HM320GR	Cabur	HMM.6/GR Feed-through Terminal Block - Grey (6 mmq)
			HM321GR	Cabur	HMT.6/PT/GR End section - Grey
5	11.7B	6	HM320GR	Cabur	HMM.6/GR Feed-through Terminal Block - Grey (6 mmq)
6	11.7C	6	HM320GR	Cabur	HMM.6/GR Feed-through Terminal Block - Grey (6 mmq)
7	11.7B	6	HM320GR	Cabur	HMM.6/GR Feed-through Terminal Block - Grey (6 mmq)
8	11.7C	6	HM320GR	Cabur	HMM.6/GR Feed-through Terminal Block - Grey (6 mmq)
			HM321GR	Cabur	HMT.6/PT/GR End section - Grey
9	13.1A	6	HM320GR	Cabur	HMM.6/GR Feed-through Terminal Block - Grey (6 mmq)
10	13.1B	6	HM320GR	Cabur	HMM.6/GR Feed-through Terminal Block - Grey (6 mmq)
11	13.2A	6	HM320GR	Cabur	HMM.6/GR Feed-through Terminal Block - Grey (6 mmq)
12	13.2B	6	HM320GR	Cabur	HMM.6/GR Feed-through Terminal Block - Grey (6 mmq)
			HM321GR	Cabur	HMT.6/PT/GR End section - Grey
13	14.1B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
14	14.1C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
15	14.1B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
16	14.1C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
17	14.1B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
18	14.1C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
19	14.2B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
20	14.2C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
			HM251GR	Cabur	HMT.4/PT/GR End section - Grey
21	15.1B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
22	15.1C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
23	15.1B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
24	15.1C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
			HM251GR	Cabur	HMT.4/PT/GR End section - Grey
25	24.3A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
26	24.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
27	28.2A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
28	28.2A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
29	24.5A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
30	24.5C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
31	24.5A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
32	24.5C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
33	24.6A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
34	24.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
35	24.7A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
36	24.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type

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DWG n° : 231151/SD/19

Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

TITLE :

SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000

Terminal strip

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

SHEET 30

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

TYP - FUEL

XC

Interconnection Terminals

NumM	Fg.	Sez.	Tipo	Costruttore	Descrizione
37	24.7A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
38	24.7B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
39	24.8A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
40	24.8B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
41	24.8A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
42	24.8B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
43	27.2C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
44	27.2C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
45	25.6A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
46	25.6C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
47	28.9C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
48	28.10C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
			HM251GR	Cabur	HMT.4/PT/GR End section - Grey

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

DWG n° : 231151/SD/19

Item n° : PF1113279

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000

Terminal strip

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

SHEET 31

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

TYP - FUEL

XM

Interface Terminals

NumM	Fg.	Sez.	Tipo	Costruttore	Descrizione
1	10.4E	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
2	10.5E	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
3	10.5E	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
			HM251GR	Cabur	HMT.4/PT/GR End section - Grey
4	10.5E	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
5	20.4B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
6	20.4B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
7	20.6C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
8	20.6C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
9	21.5B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
10	21.5B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
11	21.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
12	21.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
13	21.7B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
14	21.7B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
15	22.2A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
16	22.2B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
17	22.3A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
18	22.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
19	22.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
20	22.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
21	22.10A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
22	22.10B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
23	23.8A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
24	23.8B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
25	23.9A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
26	23.9B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
27	24.9A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
28	24.9B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
29	25.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
30	25.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
31	25.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
32	25.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
33	25.4B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
34	25.4B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
35	25.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
36	25.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
37	26.5B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
38	26.5B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
39	28.3A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
40	28.5A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type

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DWG n° : 231151/SD/19

Item n° : PF1113279

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000

Terminal strip

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

SHEET 32

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

TYP - FUEL

XM

Interface Terminals

NumM	Fg.	Sez.	Tipo	Costruttore	Descrizione
41	28.5A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
42	28.6A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
43	28.7A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
44	28.9A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
45	28.2C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
46	28.2C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
47	28.2C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
48	28.3C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
49	28.4C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
50	28.4C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
51	28.4C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
52	28.5C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
53	28.5C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
54	28.6C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
55	28.6C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
56	28.7C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
57	28.7C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
58	28.8C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
59		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
60		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
61		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
62		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
63		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
64		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
65		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
66		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
67		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
68		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
			HM251GR	Cabur	HMT.4/PT/GR End section - Grey

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DWG n° : 231151/SD/19

Item n° : PF1113279

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
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0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

TITLE :

SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000

Terminal strip

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00019

SHEET 33

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

Nome/Item	Fg/Sh	Tipo/Type	Q.tà	Descrizione/Description	Costruttore/Manufacturer	Ubicazione (descrizione)	Quadro (descrizione)
BB	7	1VCF698000R0012	1	OPTICAL FIBER CABLE PRE-MANUFACT. LENS L=5M	ABB	A7	FUEL CELL FEEDER A-80000
BGE	9	1VCF599700R0131	1	EARTHING SWITCH ST-E 17.31 150	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF599505R0001	1	5 AUX CONTACTS FOR EARTHING SWITCH	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF599504R0063	1	KEY LOCKS ON EARTHING SWITCH	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF599700R0290	1	EARTHING SWITCH OPERATING LEVER	ABB	A7	FUEL CELL FEEDER A-80000
C1	9	43931118	1	VPIS 3,3÷36KV - DEVICE SIGNALLING VOLTAGE PRESENT KIT	ELECTRONSYSTEM	A7	FUEL CELL FEEDER A-80000
CB	7	1VCF698000R0012	1	OPTICAL FIBER CABLE PRE-MANUFACT. LENS L=5M	ABB	A7	FUEL CELL FEEDER A-80000
CC	9	1VCF698000R0012	1	OPTICAL FIBER CABLE PRE-MANUFACT. LENS L=5M	ABB	A7	FUEL CELL FEEDER A-80000
E1	13	74041	1	LED LAMP 4W 4000K 313x30x22	Beghelli	A7	FUEL CELL FEEDER A-80000
E8	10	1VCF501000R0001	1	RESISTOR TR318 27R/J 27ohm 500W L=2,5M	ABB	A7	FUEL CELL FEEDER A-80000
EH1	13	R1R150230	1	SPACE HEATER SKR 150W ALIM. 220VCA	Torresan	A7	FUEL CELL FEEDER A-80000
FF1	10	1YMB751209M1502	1	FUSE-LINKS FOR VOLTAGE TRANSFORMER PROTECTION 6/12kV 2A 192x53mm - CEF-VT	ABB	A7	FUEL CELL FEEDER A-80000
FF2	10	1YMB751209M1502	1	FUSE-LINKS FOR VOLTAGE TRANSFORMER PROTECTION 6/12kV 2A 192x53mm - CEF-VT	ABB	A7	FUEL CELL FEEDER A-80000
FF3	10	1YMB751209M1502	1	FUSE-LINKS FOR VOLTAGE TRANSFORMER PROTECTION 6/12kV 2A 192x53mm - CEF-VT	ABB	A7	FUEL CELL FEEDER A-80000
FP1	16	1VCF698331R0001	1	REX640B10NN+AIM1+AIM1+ARC1+BIO1+BIO1+BI+O2+CMP2+COM1+LNG1+MCT1+PCL4+PSM3+SCT	ABB	A7	FUEL CELL FEEDER A-80000
HGR	13	TRT-10A230V-NC	1	Regolable Thermostat -10÷80°C 1NC IP20 DIN Mounting	Fandis	A7	FUEL CELL FEEDER A-80000
K1	7	1VCF305661R3200	1	VACUUM CONTACTOR VSC7/P 3P 7,2KV 400A DOUBLE COMMAND (DCO)	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF309500R3881	1	VACUUM CONTACTOR FITTED FOR DIN E=442mm FUSES	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF309500R0882	1	NAMEPLATE IN ENGLISH LANGUAGE	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF309500R1881	1	VACUUM CONTACTOR FOR UNIGEAR/UNISEC	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF309503R0881	1	MAC-R2 ELECTRONIC CONTROL MODULE TYPE STANDARD	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF309503R1881	1	VACUUM CONTACTOR CONFORMS TO THE IRC 62271-106 STANDARDS	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF309588R0909	1	POWER SUPPLY VOLTAGE OF MAC-R2 ELECTRONIC CONTROL MODULE 110VDC	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF309500R0100	1	OPERATIONS COUNTER FOR VSC/P VERSIONE FOR SHIPPINGS REGISTER	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF349700R0407	1	MECHANICAL INTERLOCK WITH DOOR	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF339700R0291	1	POSITION CONTACTS FOR VD4	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF339700R1909	1	LOCKING MAGNET ON THE TRUCK 110Vdc (RLE2)	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF309503R0251	1	KIT FOR FUSES DIAMETER 87mm	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF309500R0192	1	LIFTING TOOL FOR SHIPPINGS REGISTERS VERSION	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF597111R0140	1	POWER CUBE PB1/E L600 12kV 400A 31.5KA 3S	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF599700R0882	1	NAMEPLATE IN ENGLISH LANGUAGE FOR POWERCUBE	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF599700R5886	1	PB FOR VSC	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF599700R4882	1	PAINTED DOOR	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF599504R0042	1	LOCK TO PREVENT RACKING-IN WITH EARTHING SWITCH	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF599700R0162	1	58 POLES CONNECTOR + ATOXIC WIRING L=0.8mt	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF599505R0111	1	FAIL-SAFE SHUTTER ELEMENTS	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF579700R0909	1	ELECTROMECHANICAL ISOLATING INTERLOCK CIRCUIT-BREAKER/DOOR 110Vdc (RLE4)	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF599700R0280	1	INTERLOCK FOR DOOR EARTHING SWITCH	ABB	A7	FUEL CELL FEEDER A-80000
		1YMB711238M4812	1	BACK UP CURRENT LIMITING FUSE LINK 6/12kV 160A 442x65mm - CEF	ABB	A7	FUEL CELL FEEDER A-80000
K86	22	RMBE13-C110T	1	BISTABLE RELAY 110VDC 7SC-5A TROP.	Amra	A7	FUEL CELL FEEDER A-80000
		PAVM321	1	SOCKET WITH SCREW TO RELAY TYPE PAVM321	Amra	A7	FUEL CELL FEEDER A-80000
K94WT	22	ER 589 2	1	CR-M110DC4L SUPPLY 110VDC 4C/O 250V/6A LED	ABB	A7	FUEL CELL FEEDER A-80000
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	A7	FUEL CELL FEEDER A-80000
		ER 728 6	1	CR-MH1 METAL RETAINING JUMPER	ABB	A7	FUEL CELL FEEDER A-80000

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DWG n° : 231151/SD/19
Item n° : PF1113279

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
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0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
Bill of Materials

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

A3 | DRAWING NO. 1723002197-EL-DG-00019 | SHEET 34 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

Nome/Item	Fg/Sh	Tipo/Type	Q.tà	Descrizione/Description	Costruttore/Manufacturer	Ubicazione (descrizione)	Quadro (descrizione)
KGR	13	ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	A7	FUEL CELL FEEDER A-80000
		ER 728 6	1	CR-MH1 METAL RETAINING JUMPER	ABB	A7	FUEL CELL FEEDER A-80000
		ER 552 0	1	CR-M230AC2L SUPPLY 230VAC 2C/O 250V/6A LED	ABB	A7	FUEL CELL FEEDER A-80000
KIRF	22	ER 589 2	1	CR-M110DC4L SUPPLY 110VDC 4C/O 250V/6A LED	ABB	A7	FUEL CELL FEEDER A-80000
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	A7	FUEL CELL FEEDER A-80000
		ER 728 6	1	CR-MH1 METAL RETAINING JUMPER	ABB	A7	FUEL CELL FEEDER A-80000
KSIL	26	2TLA010040R0000	1	BSR10 Vaux=24VDC SAFETY RELAY	ABB	A7	FUEL CELL FEEDER A-80000
KT1	20	H3DKM2ACDC24240	1	MULTIFUNCTION TIMER RELAY Vaux=24÷240Vac/dc - 2SC	Omron	A7	FUEL CELL FEEDER A-80000
L1C	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A7	FUEL CELL FEEDER A-80000
L1I	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A7	FUEL CELL FEEDER A-80000
L1MS	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A7	FUEL CELL FEEDER A-80000
L2C	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A7	FUEL CELL FEEDER A-80000
L2I	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A7	FUEL CELL FEEDER A-80000
L3C	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A7	FUEL CELL FEEDER A-80000
L3I	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A7	FUEL CELL FEEDER A-80000
L3MS	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A7	FUEL CELL FEEDER A-80000
LS	13	Z15GW2-1-1453270	1	MICROSWITCH 1sc	Omron	A7	FUEL CELL FEEDER A-80000
		APB-PG	1	COVER TO MICRO-SWITCH	Omron	A7	FUEL CELL FEEDER A-80000
OD1	9	990003	1	MEDIUM VOLTAGE DISCHARGE DMI-9-10-1-L Ur=9kV	DEHN	A7	FUEL CELL FEEDER A-80000
OD2	9	990003	1	MEDIUM VOLTAGE DISCHARGE DMI-9-10-1-L Ur=9kV	DEHN	A7	FUEL CELL FEEDER A-80000
OD3	9	990003	1	MEDIUM VOLTAGE DISCHARGE DMI-9-10-1-L Ur=9kV	DEHN	A7	FUEL CELL FEEDER A-80000
P1	20	KW 080 2	1	MP1-10B BLACK PUSH BUTTON UNSTABLE	ABB	A7	FUEL CELL FEEDER A-80000
		EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	A7	FUEL CELL FEEDER A-80000
		EO 570 5	1	MCB-10 CONTACT NO FOR PUSHBUTTONS	ABB	A7	FUEL CELL FEEDER A-80000
PR	22	KW 101 6	1	YELLOW LIGHT PUSH BUTTON	ABB	A7	FUEL CELL FEEDER A-80000
		KV 022 5	1	MLBL-05W YELLOW LED BLOCK INTEGRATED 110÷130VAC	ABB	A7	FUEL CELL FEEDER A-80000
		EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	A7	FUEL CELL FEEDER A-80000
		EO 570 5	1	MCB-10 CONTACT NO FOR PUSHBUTTONS	ABB	A7	FUEL CELL FEEDER A-80000
PTT	10	1VCF498412R0100	1	TV/F COMPARTMENT 12/17kV IP4X L=590mm OUTLET ON THE BACK WITH N°3 VT + N°14 MAIN CONTACTS + N°2+2 SERVICE/ISOLATED POSITION CONTACTS	ABB	A7	FUEL CELL FEEDER A-80000
		1VCF499800R0302	1	NAMEPLATE IN ENGLISH LANGUAGE FOR TV/F	ABB	A7	FUEL CELL FEEDER A-80000
QA2	13	B427917	1	DDA202 AC 25A 300MA BLOCCO DIFFERENZIALE 2P	ABB	A7	FUEL CELL FEEDER A-80000
		A563819	1	S2-CS/H6R CONTATTO DI SEGNALAZIONE/AUX 1SC	ABB	A7	FUEL CELL FEEDER A-80000
		S550284	1	S202M C10 INTERRUTTORE AUTOMATICO 10KA 2P	ABB	A7	FUEL CELL FEEDER A-80000
QD1	11	A563819	1	S2-CS/H6R CONTATTO DI SEGNALAZIONE/AUX 1SC	ABB	A7	FUEL CELL FEEDER A-80000
		S550253	1	S202M C 4 INTERRUTTORE AUTOMATICO 10KA 2P	ABB	A7	FUEL CELL FEEDER A-80000
QD2	11	S550253	1	S202M C 4 AUTOMATIC CIRCUIT-BREAKER 10KA 2P	ABB	A7	FUEL CELL FEEDER A-80000
		a563819	1	S2-CS/H6R AUXILIARY STATE CONTACT	ABB	A7	FUEL CELL FEEDER A-80000
QD4	11	A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A7	FUEL CELL FEEDER A-80000
		S550239	1	S202M C 2 AUTOMATIC CIRCUIT BREAKER 10KA 2P	ABB	A7	FUEL CELL FEEDER A-80000
QV1	10	S550680	1	S204M C 2 AUTOMATIC CIRCUIT-BREAKER 10KA 4P	ABB	A7	FUEL CELL FEEDER A-80000
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A7	FUEL CELL FEEDER A-80000
QV2	10	S550680	1	S204M C 2 AUTOMATIC CIRCUIT-BREAKER 10KA 4P	ABB	A7	FUEL CELL FEEDER A-80000
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A7	FUEL CELL FEEDER A-80000

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DWG n° : 231151/SD/19
Item n° : PF1113279

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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CROSSWIND

ROSETTI MARINO

IMESA ELECTRICAL ENGINEERING

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
Bill of Materials

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

A3 | DRAWING NO. 1723002197-EL-DG-00019 | SHEET 35 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03

Nome/Item	Fg/Sh	Tipo/Type	Q.tà	Descrizione/Description	Costruttore/Manufacturer	Ubicazione (descrizione)	Quadro (descrizione)
QV3	10	S550239	1	S202M C 2 AUTOMATIC CIRCUIT BREAKER 10KA 2P	ABB	A7	FUEL CELL FEEDER A-80000
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A7	FUEL CELL FEEDER A-80000
QV4	14	S550680	1	S204M C 2 AUTOMATIC CIRCUIT-BREAKER 10KA 4P	ABB	A7	FUEL CELL FEEDER A-80000
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A7	FUEL CELL FEEDER A-80000
QV5	15	S550239	1	S202M C 2 AUTOMATIC CIRCUIT BREAKER 10KA 2P	ABB	A7	FUEL CELL FEEDER A-80000
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A7	FUEL CELL FEEDER A-80000
S1C	25	EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	A7	FUEL CELL FEEDER A-80000
		EO 570 5	1	MCB-10 CONTACT NO FOR PUSHBUTTONS	ABB	A7	FUEL CELL FEEDER A-80000
		KW 076 0	1	MP1-10G PUSH BUTTON GREEN WITH BLACK RING	ABB	A7	FUEL CELL FEEDER A-80000
S2O	25	EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	A7	FUEL CELL FEEDER A-80000
		EO 570 5	2	MCB-10 CONTACT NO FOR PUSHBUTTONS	ABB	A7	FUEL CELL FEEDER A-80000
		KW 075 2	1	MP1-10R PUSH BUTTON RED WITH BLACK RING	ABB	A7	FUEL CELL FEEDER A-80000
SA1	23	EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	A7	FUEL CELL FEEDER A-80000
		EO 571 3	1	MCB-01 CONTACT NC FOR PUSHBUTTOM	ABB	A7	FUEL CELL FEEDER A-80000
		EO 570 5	1	MCB-10 CONTACT NO FOR PUSHBUTTONS	ABB	A7	FUEL CELL FEEDER A-80000
		KW 329 3	1	M2SS2-10B HANDLE SELECTOR 2P 90° BLACK RING BLACK	ABB	A7	FUEL CELL FEEDER A-80000
TI-L1	8	ATB-10-BS__014	1	CURRENT TRANSFORMER 7,2kV 50Hz 150/1A cl.0,5-5P20 (5VA)- 25kA	ESITAS	A7	FUEL CELL FEEDER A-80000
TI-L2	8	ATB-10-BS__014	1	CURRENT TRANSFORMER 7,2kV 50Hz 150/1A cl.0,5-5P20 (5VA)- 25kA	ESITAS	A7	FUEL CELL FEEDER A-80000
TI-L3	8	ATB-10-BS__014	1	CURRENT TRANSFORMER 7,2kV 50Hz 150/1A cl.0,5-5P20 (5VA)- 25kA	ESITAS	A7	FUEL CELL FEEDER A-80000
TO	9	KAP-150/250-55	1	CURRENT TRANSFORMER 0,72/3/-kV 100/1 50Hz	ESITAS	A7	FUEL CELL FEEDER A-80000
TR1	19	800208	1	MODBUS DATACARD 8 CHANNELS	Exertherm	A7	FUEL CELL FEEDER A-80000
TU-L1	10	TJP4.3__002	1	VT ON RESIN 7,2KV 50-60Hz 6600:r3/110:r3-110:r3-110:3 Cl.0,5-3P Pr.20VA, Cl.0,5-3P Pr.30VA, Cl.3P Pr.30VA	ABB	A7	FUEL CELL FEEDER A-80000
TU-L2	10	TJP4.3__002	1	VT ON RESIN 7,2KV 50-60Hz 6600:r3/110:r3-110:r3-110:3 Cl.0,5-3P Pr.20VA, Cl.0,5-3P Pr.30VA, Cl.3P Pr.30VA	ABB	A7	FUEL CELL FEEDER A-80000
TU-L3	10	TJP4.3__002	1	VT ON RESIN 7,2KV 50-60Hz 6600:r3/110:r3-110:r3-110:3 Cl.0,5-3P Pr.20VA, Cl.0,5-3P Pr.30VA, Cl.3P Pr.30VA	ABB	A7	FUEL CELL FEEDER A-80000
XC		HM320GR	12	HMM.6/GR Feed-through Terminal Block - Grey (6 mmq)	Cabur	A7	FUEL CELL FEEDER A-80000
		HM250GR	36	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type	Cabur	A7	FUEL CELL FEEDER A-80000
		HM251GR	3	HMT.4/PT/GR End section - Grey	Cabur	A7	FUEL CELL FEEDER A-80000
		HM321GR	3	HMT.6/PT/GR End section - Grey	Cabur	A7	FUEL CELL FEEDER A-80000
XI		HB220GR	8	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type	Cabur	A7	FUEL CELL FEEDER A-80000
		HL201GR	2	HLD.2/PT/GR End section - Grey	Cabur	A7	FUEL CELL FEEDER A-80000
XM		HM250GR	68	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type	Cabur	A7	FUEL CELL FEEDER A-80000
		HM251GR	2	HMT.4/PT/GR End section - Grey	Cabur	A7	FUEL CELL FEEDER A-80000
XS1	13	E 9447 7	1	SOCKET	ABB	A7	FUEL CELL FEEDER A-80000
XV		HB210GR	16	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type	Cabur	A7	FUEL CELL FEEDER A-80000
		HB201GR	5	HSCB.6/PT/GR End section - Grey	Cabur	A7	FUEL CELL FEEDER A-80000

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+A7

DWG n° : 231151/SD/19
Item n° : PF1113279

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
2	26/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for Construction (AFC)
1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL FUEL CELL FEEDER A-80000
Bill of Materials

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

A3 | DRAWING NO. 1723002197-EL-DG-00019 | SHEET 36 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00019 Rev.03