"SG-100D1" HV SWBD 6,6kV (UNIT A6)

FUNCTIONAL DIAGRAM

INCOMING FEEDER TR-100AD1

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+ A6							
DWG n° : 231151/SD/15	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 INCOMING FEEDER TR-100AD1
Cover

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 1

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

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Sheet	Description	Revision 0	1	2	3	4	5	6	7	8
1	Cover									
2	Sheets Index									
3	Legend									
4	Door Layout									
5	Protection Display REX640									
6	Selector Switch Diagram									
7	Power Diagram									
8	Power Diagram									
9	Power Diagram									
10	Power Diagram									
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									
16	"REX640"' Protection Wiring									
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18	"REX640"' Protection Wiring									
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25	"REX640" Protection Wiring - Digital Input									
26	"REX640" Protection Wiring - Digital Input									

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27	Availables Signals									
28	Available Signals									
29	Terminal strips									
30	Terminal strips									
31	Terminal strips									
32	Terminal strips									
33	Terminal strips									
34	Terminal strips									
35	Bill of Materials									
36	Bill of Materials									
37	Bill of Materials									

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DWG n° : 231151/SD/15
Item n° : PF1113279

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IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1
Sheets Index

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 2

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

ACRONIMUS LEGEND

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
SS01 = BREAKER FAILURE
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
S04 = RESET LOKOUT RELAY
SLOT "D":
SP01 = TRIP ARC DETECTOR ON OPENING COMMAND
SP02 = TRIP ARC DETECTOR TO 66kV SWICHB.
SP03 = TRIP ARC DETECTOR ON LOCKOUT RELAY

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+A6
DWG n° : 231151/SD/15
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

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TITLE :
SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1
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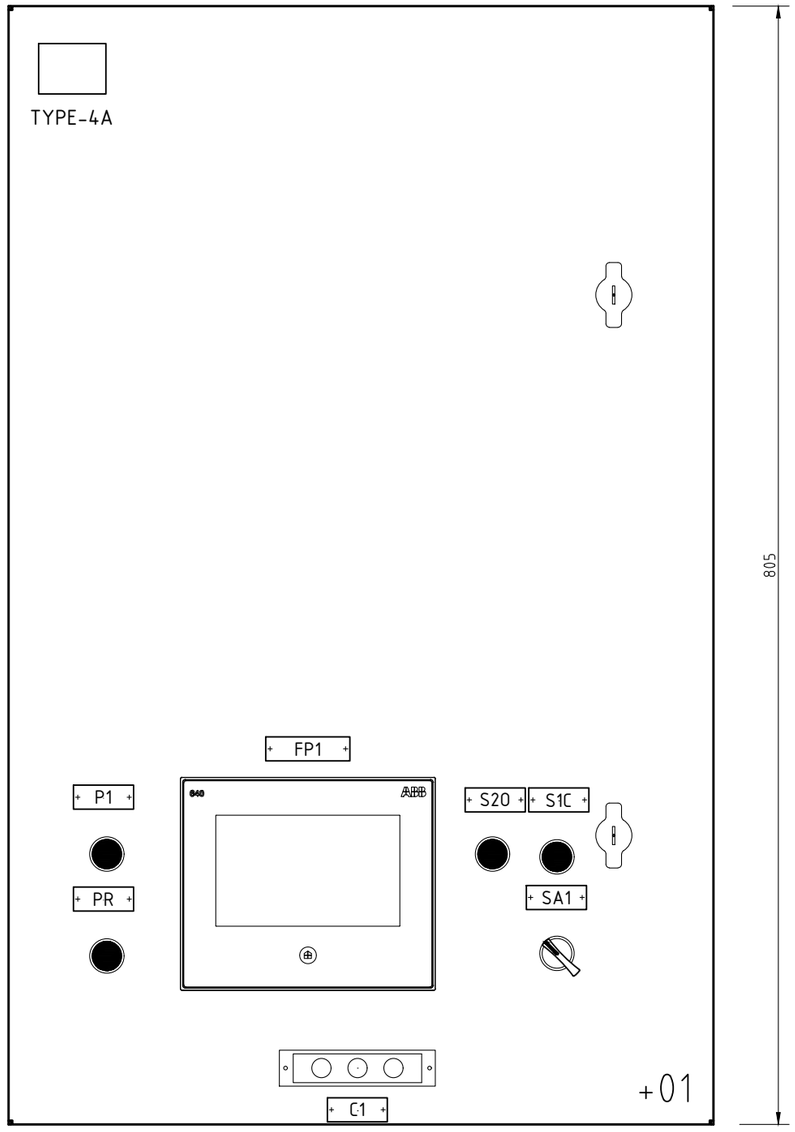
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1723002197-EL-DG-00015 | SHEET 3 | REV. 03

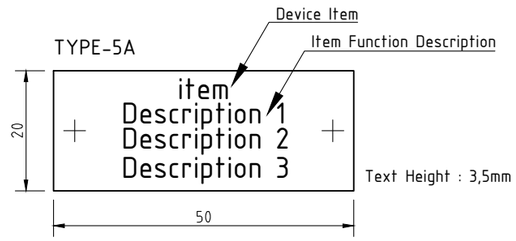
F.to UNI A3: 420mmx297mm

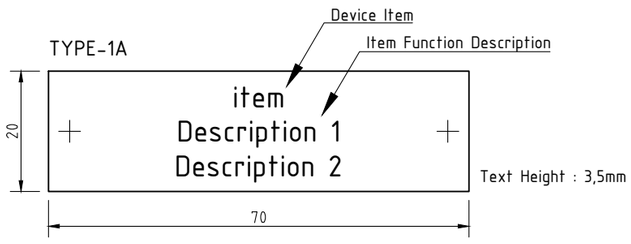
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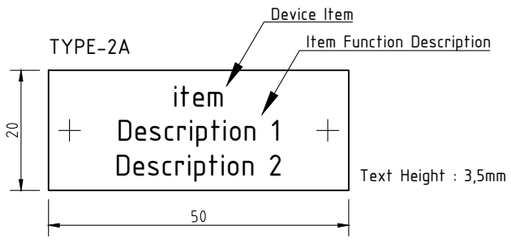
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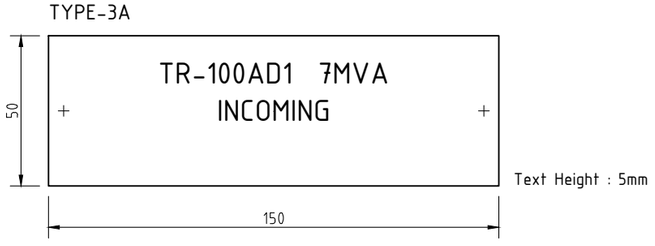


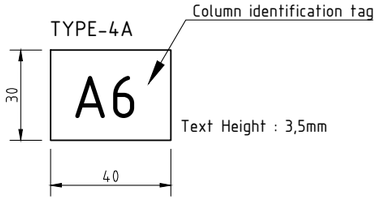
DEVICES name plate					
ITEM	COMPONENT	DESCRIPTION 1	DESCRIPTION 2	DESCRIPTION 3	NOTE
FP1	PROTECTION RELAY	PROTECTION RELAY			TYPE-1A
S2.O	PUSH BUTTON	OPEN	COMMAND	C.B.	TYPE-5A
S1.C	PUSH BUTTON	CLOSE	COMMAND	C.B.	TYPE-5A
SA1	SELECTOR SWITCH	LOCAL / REMOTE			TYPE-2A
PR	LIGHT PUSH BUTTON	RESET	LOCK-OUT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











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DWG n° : 231151/SD/15
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1
Door Layout

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

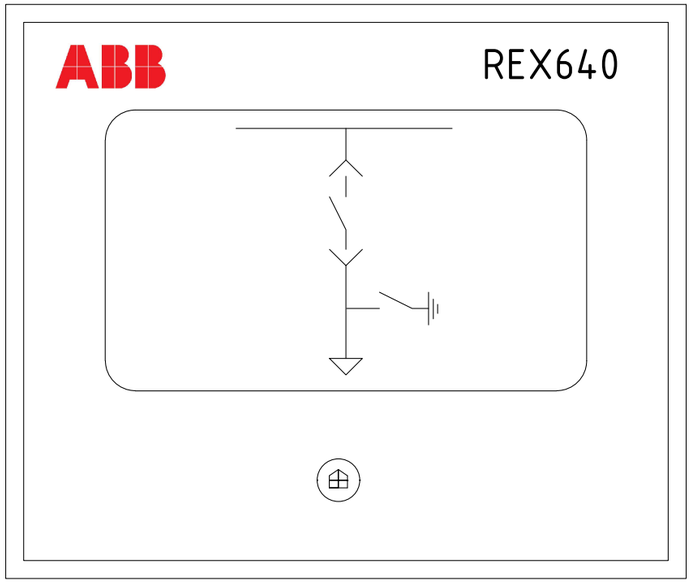
SHEET 4

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

PROTECTION DISPLAY



LHMI - TOUCH DISPLAY

- COMMANDS "CLOSE C.B." AND "OPEN C.B." 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				
LED-15				
LED-16				
LED-17				
LED-18				
LED-19				
LED-20				
LED-21				
LED-22				

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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+A6					
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DWG n° : 231151/SD/15
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING
CROSSWIND
ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1
Protection Display REX640

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

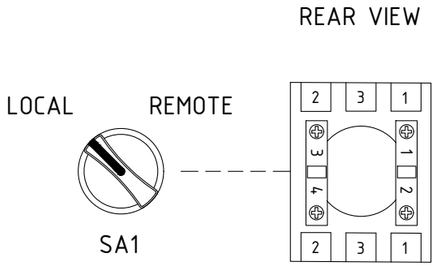
SHEET 5

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

SELECTORS SWITCH DIAGRAM



NOTES

THE DIAGRAM INDICATES THE FOLLOWING CONDITIONS:
-INSERTED CIRCUIT BREAKER IN OPEN POSITION
-DE-ENERGIZED CIRCUITS
-DSCHARGED CLOSING SPRINGS
-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

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DWG n° : 231151/SD/15

Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 – FUNCTIONAL INCOMING FEEDER TR-100AD1
Selector Switch Diagram

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

SCALE : NTS

A3

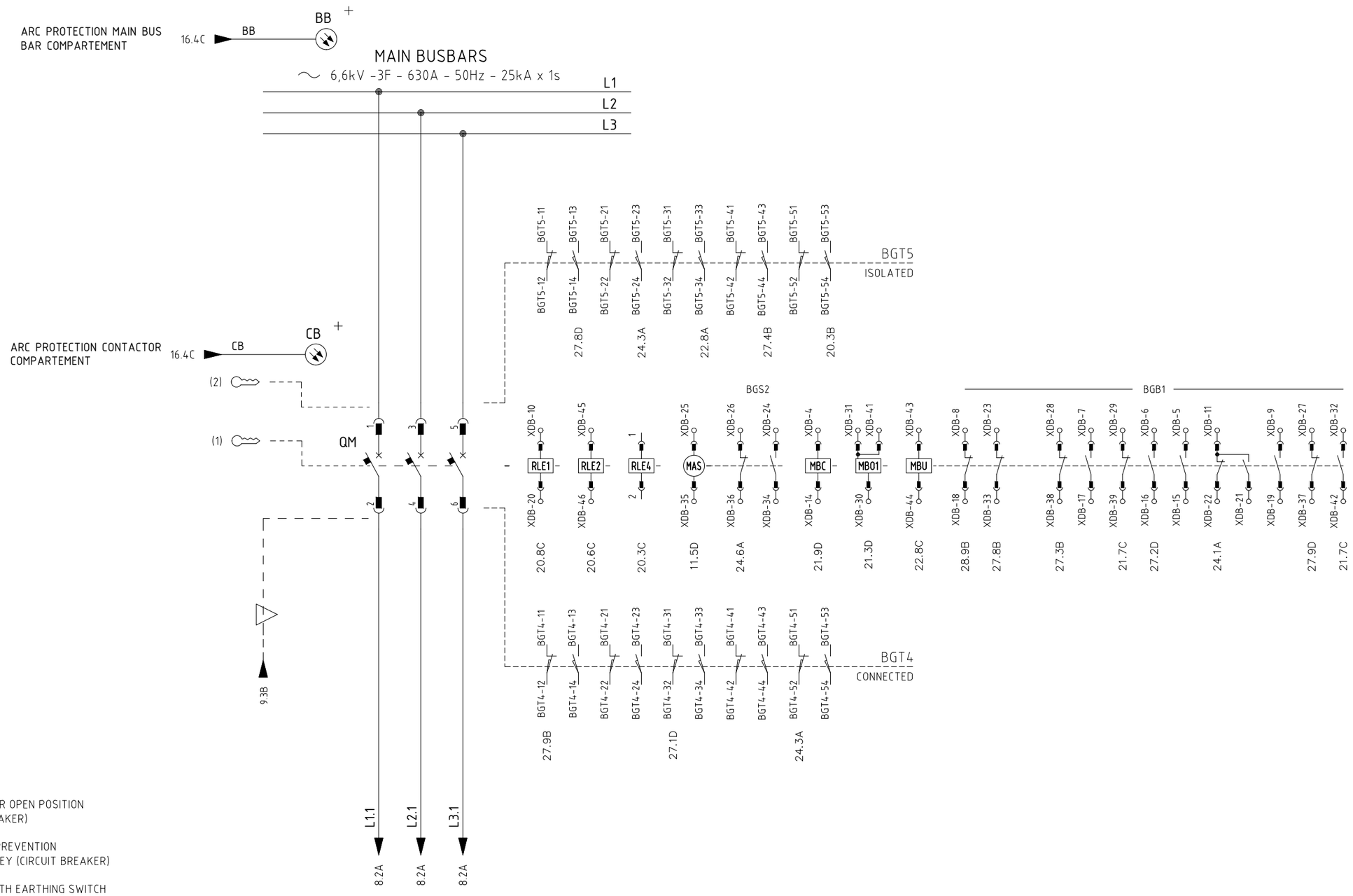
DRAWING NO. 1723002197-EL-DG-00015

SHEET 6

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03



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

(2) RACKING IN PREVENTION LOCK WITH KEY (CIRCUIT BREAKER)

(3) FREE KEY WITH EARTHING SWITCH IN OPEN POSITION

(4) FREE KEY WITH EARTHING SWITCH IN CLOSED POSITION

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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DWG n° : 231151/SD/15

Item n° : PF1113279

EH-QMG-x

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1

Power Diagram

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

SCALE : NTS

A3

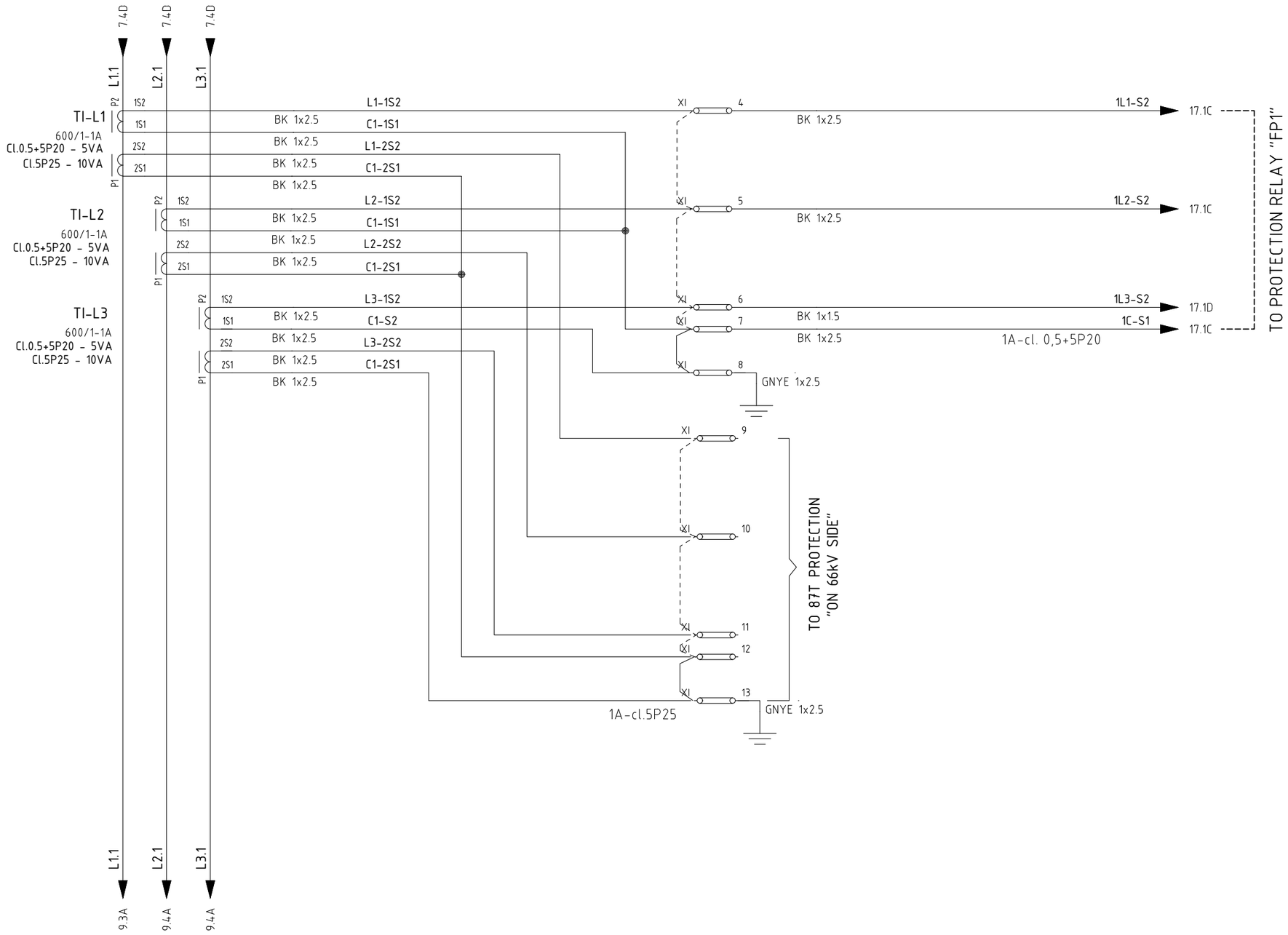
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SHEET 7

REV. 03

F.to UNI A3: 420mmx297mm

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+ A6							
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Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1
Power Diagram

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

SCALE : NTS

A3

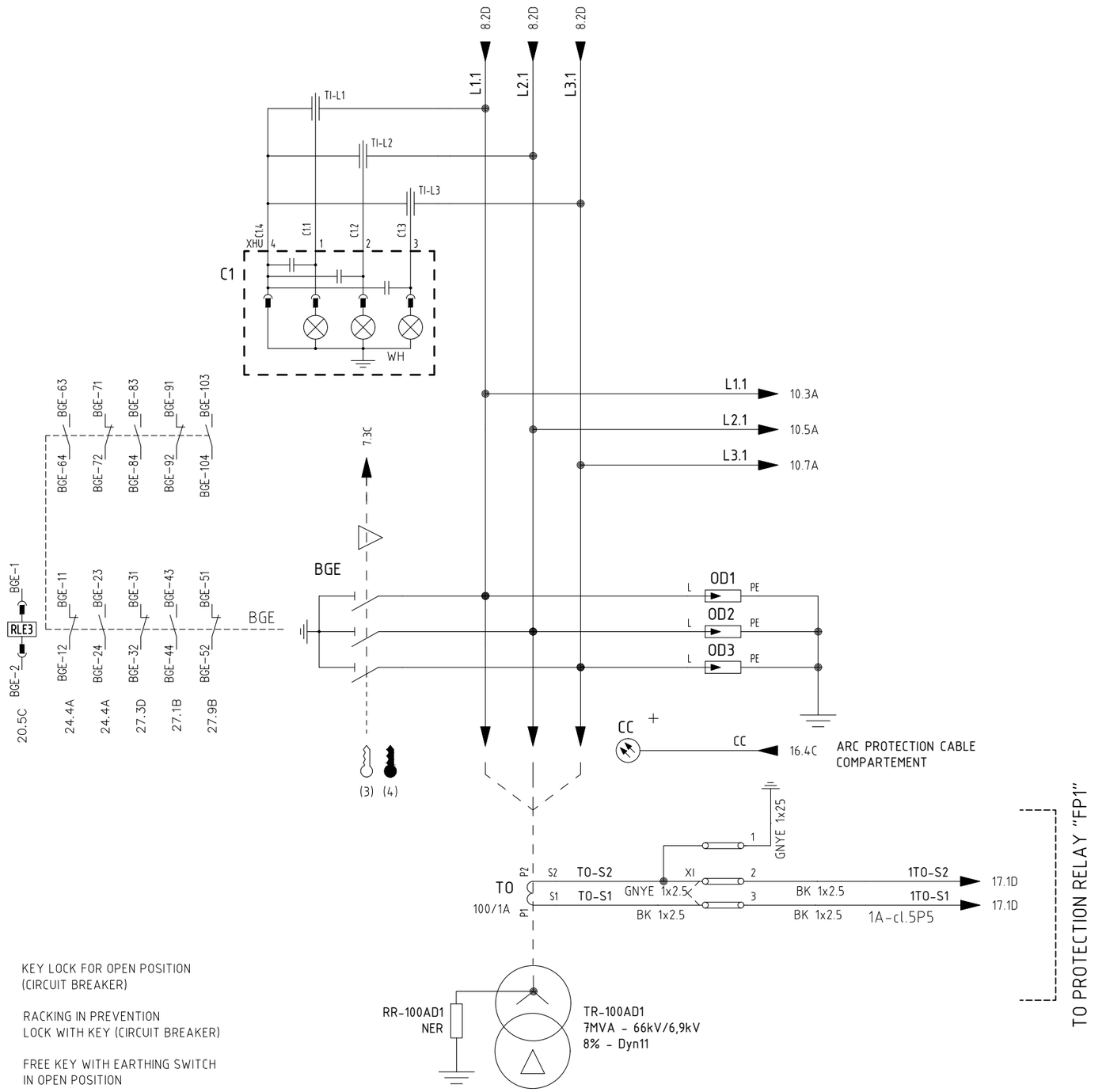
DRAWING NO. 1723002197-EL-DG-00015

SHEET 8

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03



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

(2) RACKING IN PREVENTION LOCK WITH KEY (CIRCUIT BREAKER)

(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

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1

Power Diagram

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

SCALE : NTS

A3

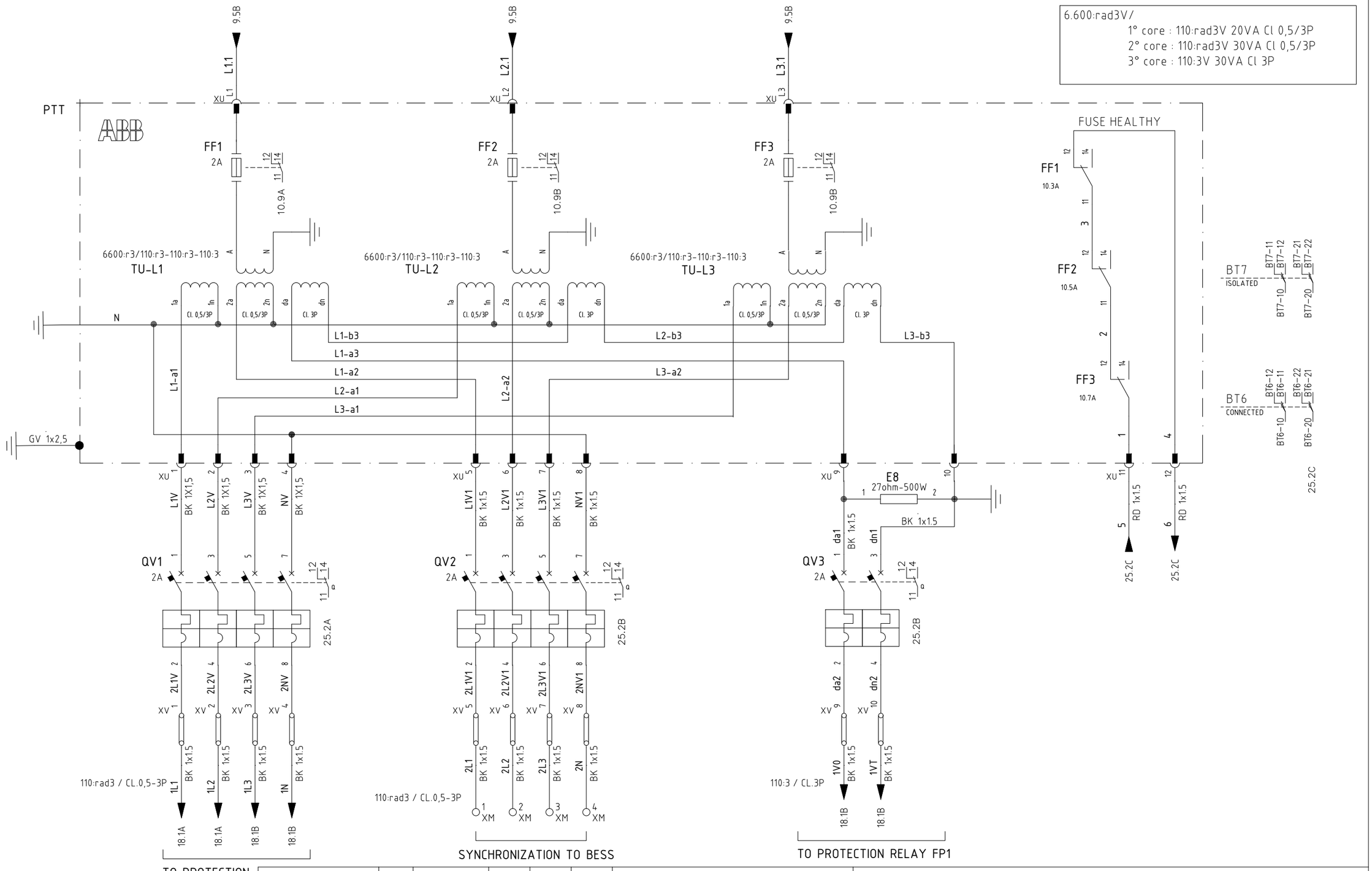
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SHEET 9

REV. 03

F.to UNI A3: 420mmx297mm

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IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

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SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1

Power Diagram

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 1.0

REV. 03

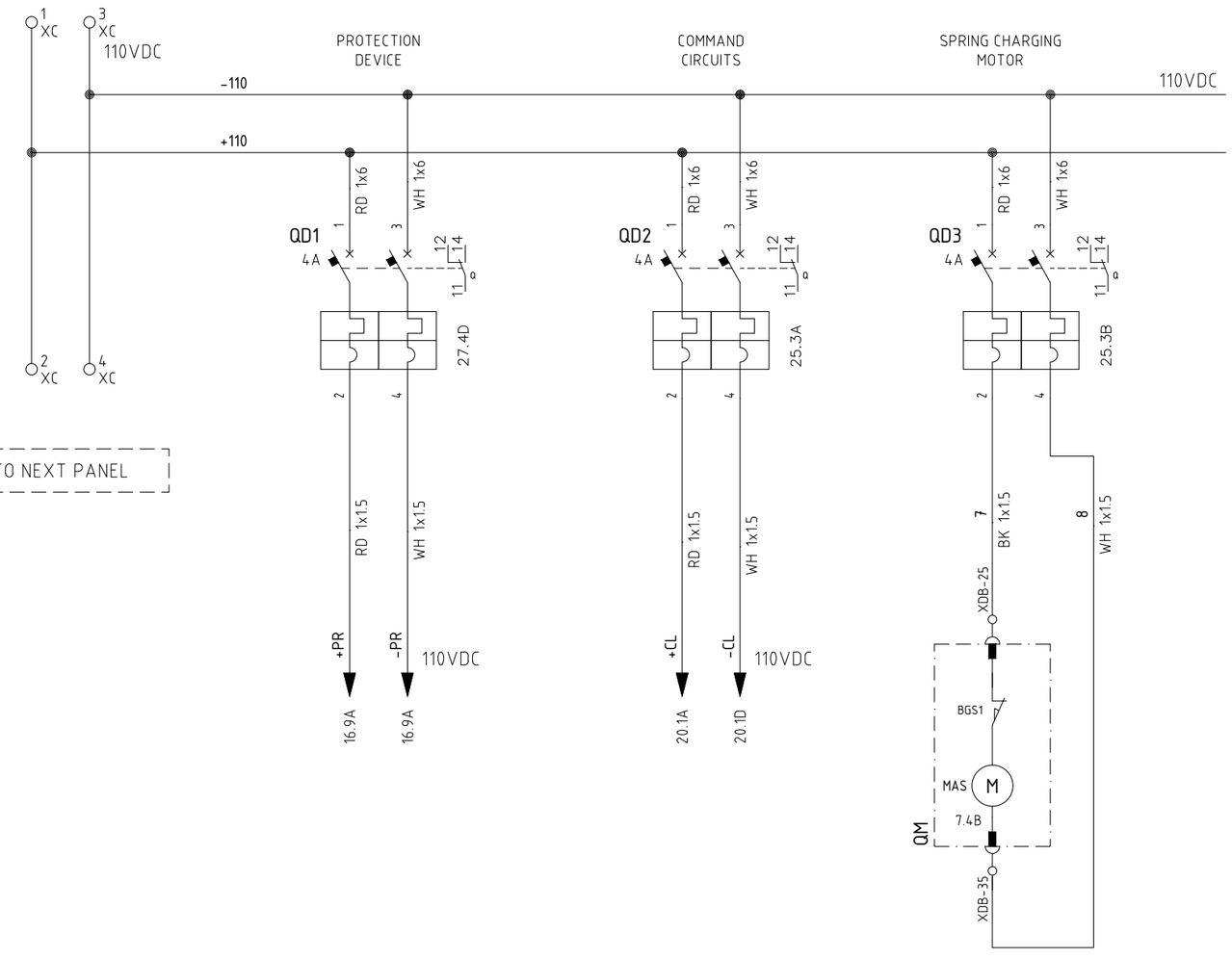
F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

110VDC DISTRIBUTION VOLTAGE

110Vdc Auxiliary Voltage
from Measuring Bus Bar Unit

FROM PREVIOUS PANEL

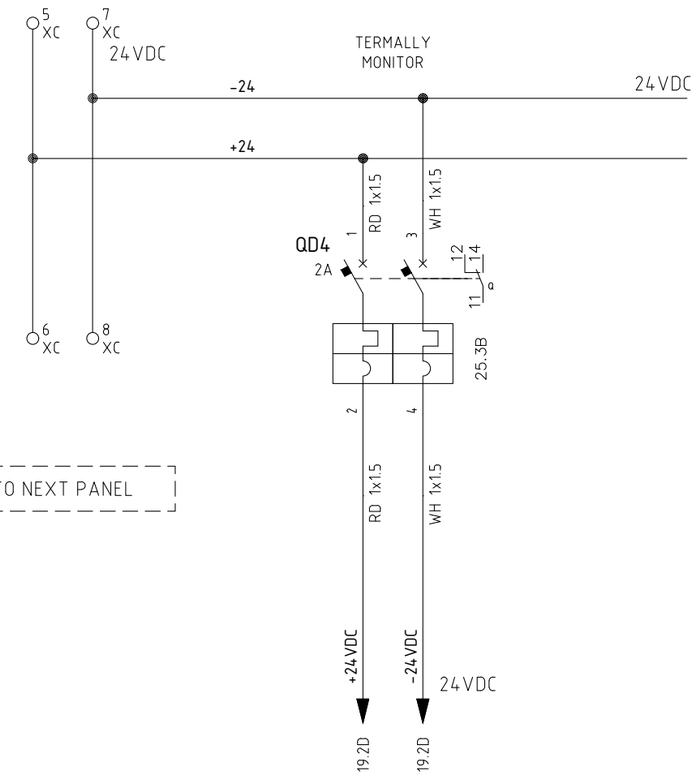


TO NEXT PANEL

24VDC DISTRIBUTION VOLTAGE

24Vdc Auxiliary Voltage
from Measuring Bus Bar Unit

FROM PREVIOUS PANEL



TO NEXT PANEL

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231151/SD/15

Item n° : PF1113279

TITLE :

SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1

110Vdc / 24Vdc Distribution Voltage

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 1.1

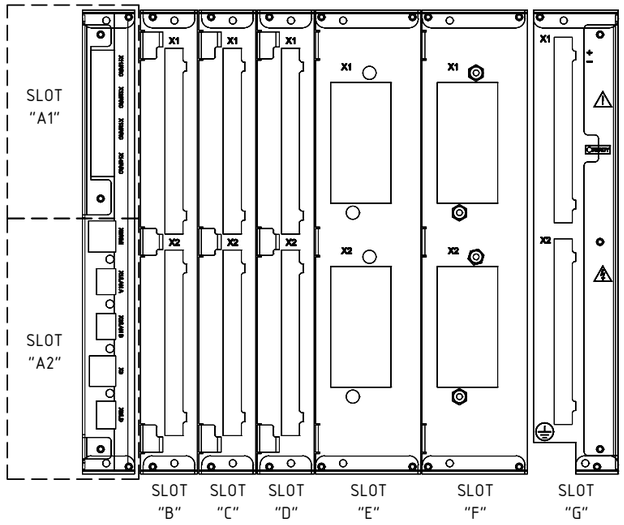
REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 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	

=
+A6

DWG n° : 231151/SD/15
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 INCOMING FEEDER TR-100AD1
Composition Relay REX640

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 12

REV. 03

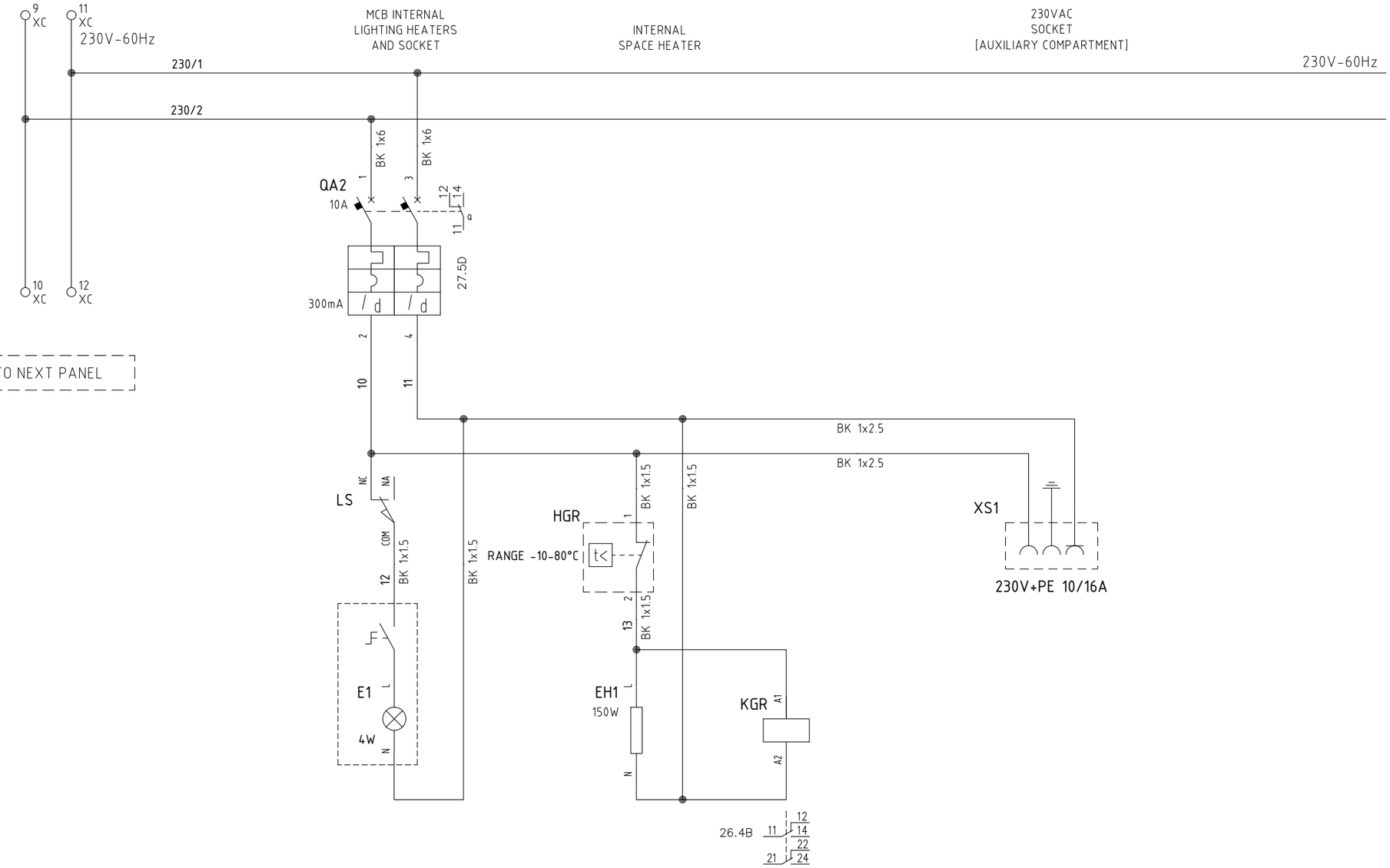
F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

230VAC DISTRIBUTION VOLTAGE

230Vac Auxiliary Voltage
from Measuring Bus Bar

FROM PREVIOUS PANEL



TO NEXT PANEL

=							
+ A6							
	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/15
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1
230Vac Distribution Voltage

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 1,3

REV. 03

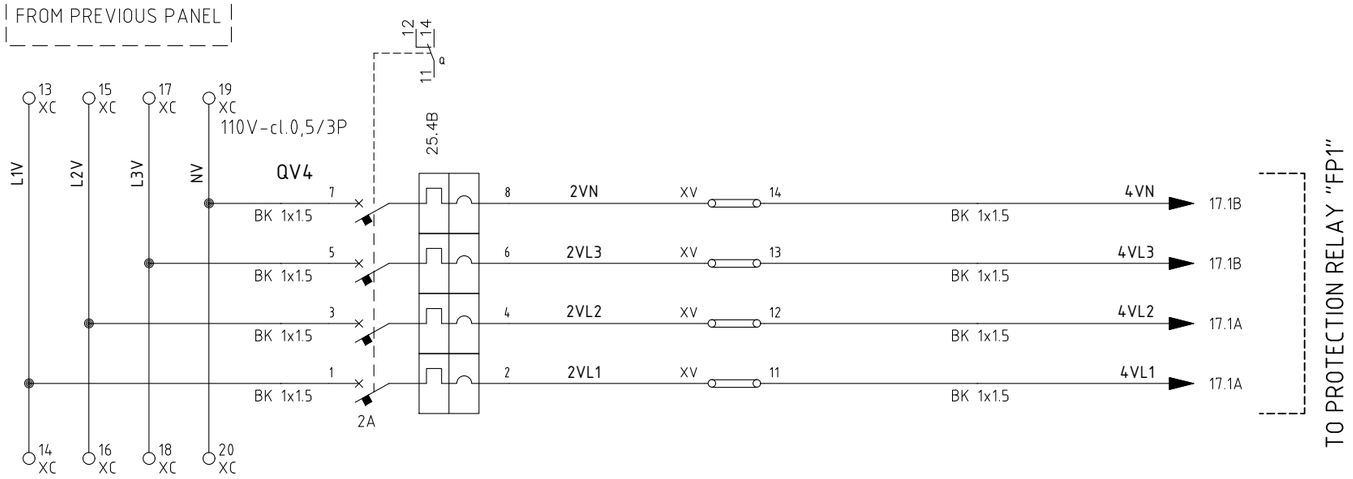
F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 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
=					
+ A6					
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/15
Item n° : PF1113279

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1
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-00015

SHEET 14

REV. 03

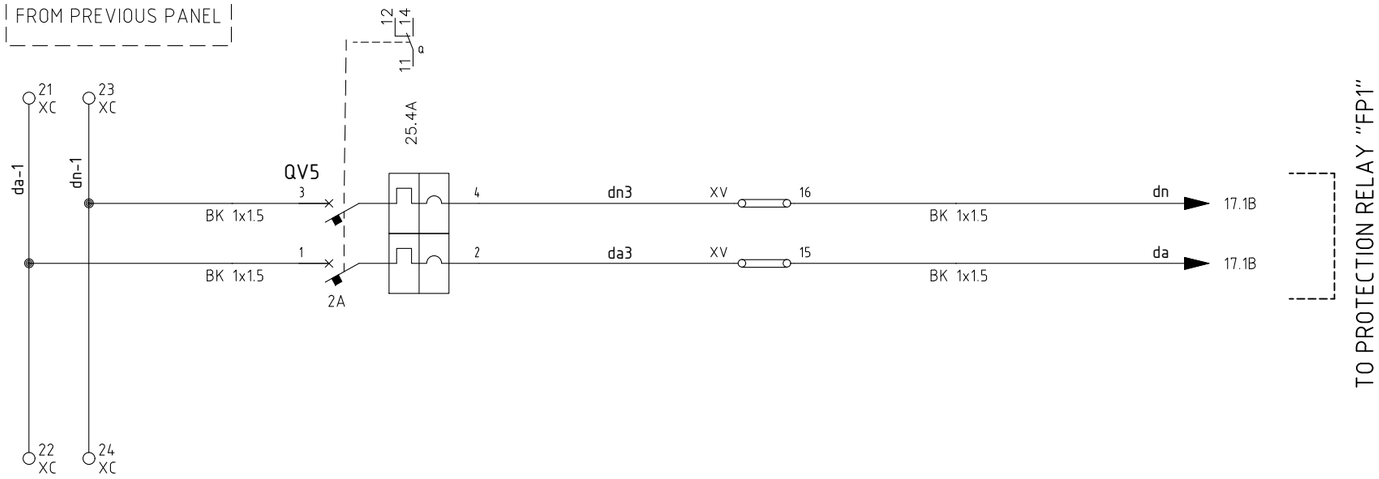
F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 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

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+ A6					
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/15
Item n° : PF1113279

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1
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-00015

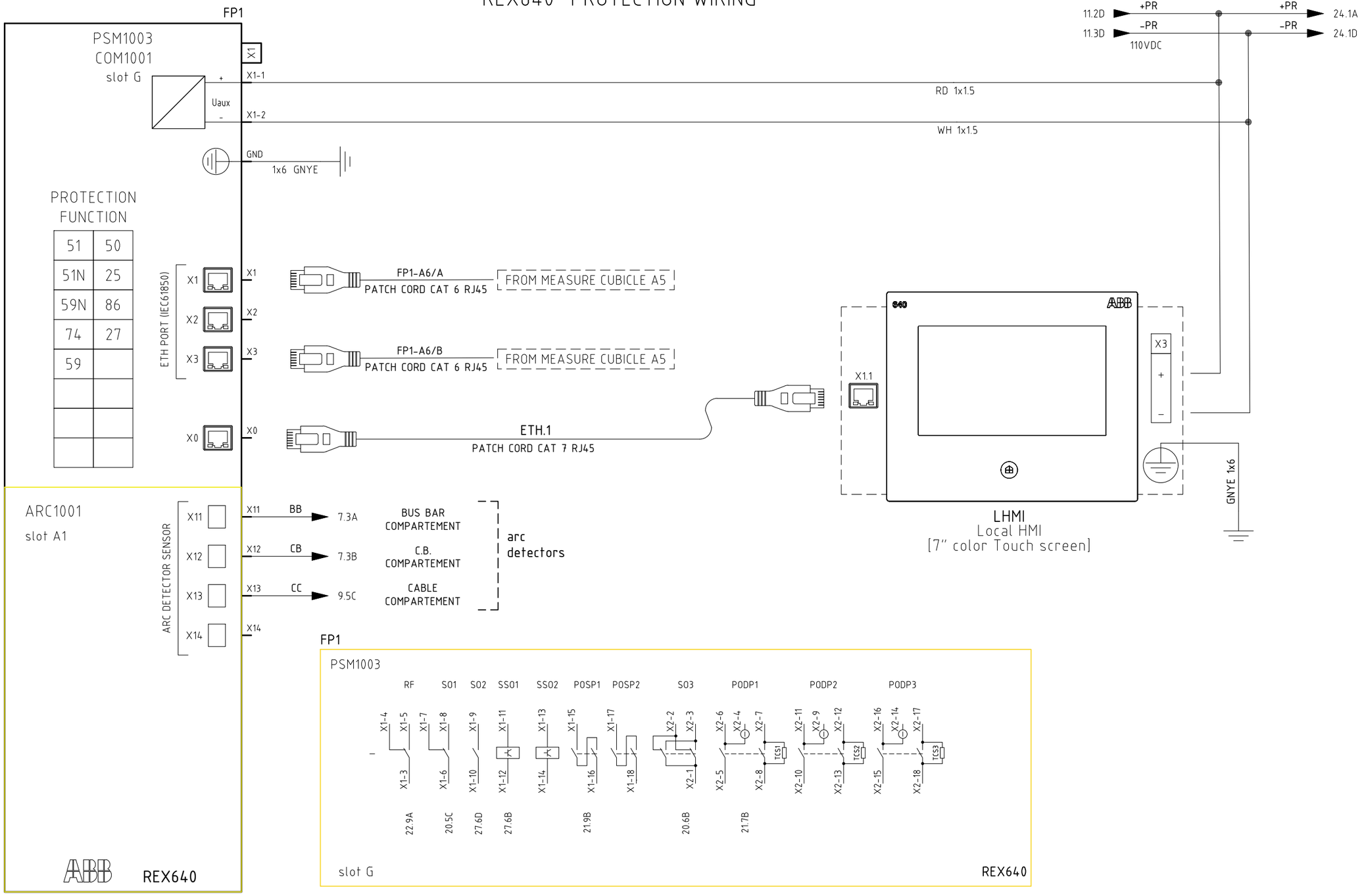
SHEET 15

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

"REX640" PROTECTION WIRING



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+ A6							
DWG n° : 231151/SD/15	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	

TITLE :

SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1

"REX640"' Protection Wiring

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

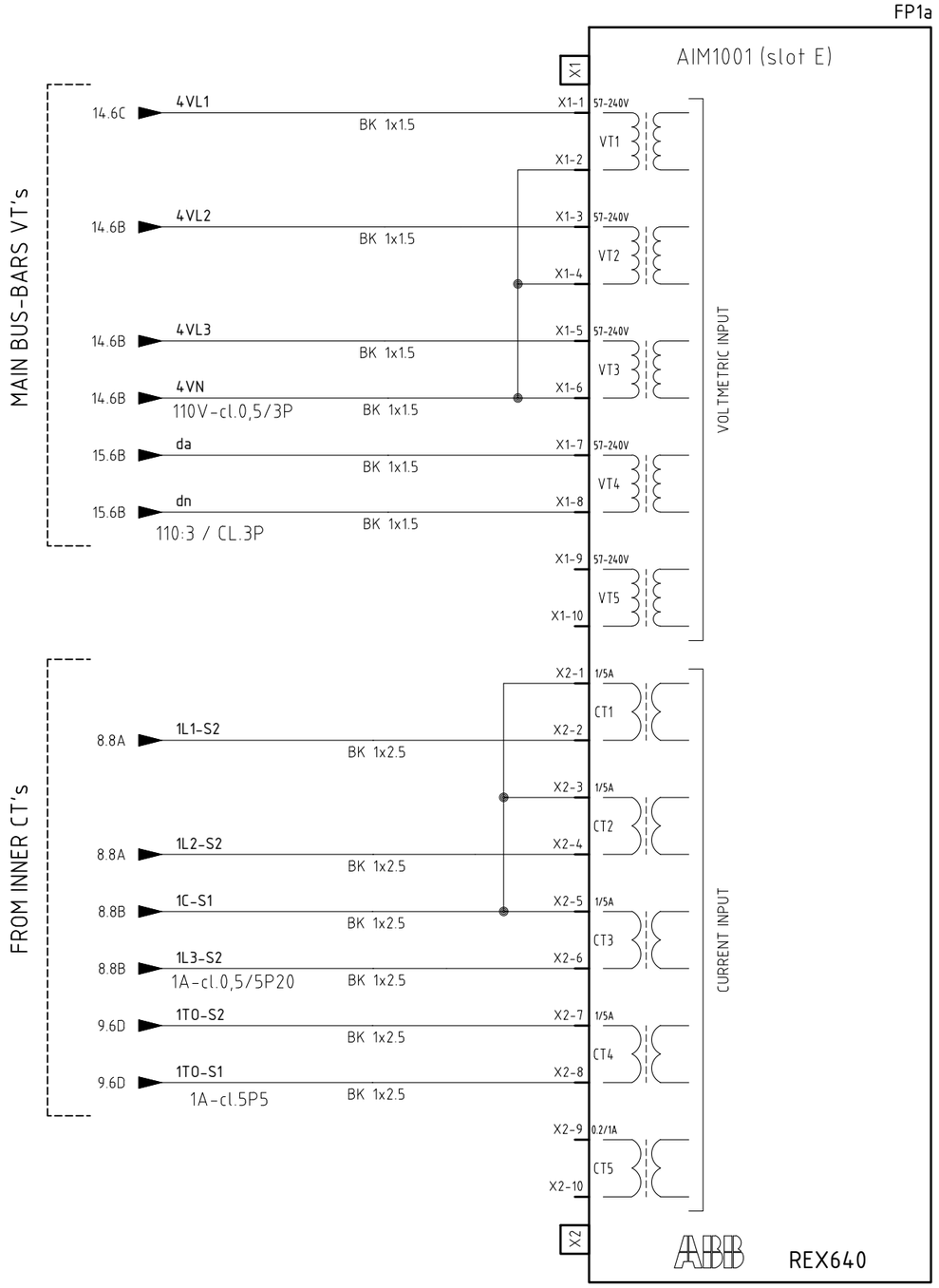
SHEET 16

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 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)
1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

=
+A6

DWG n° : 231151/SD/15

Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1

"REX640"' Protection Wiring

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

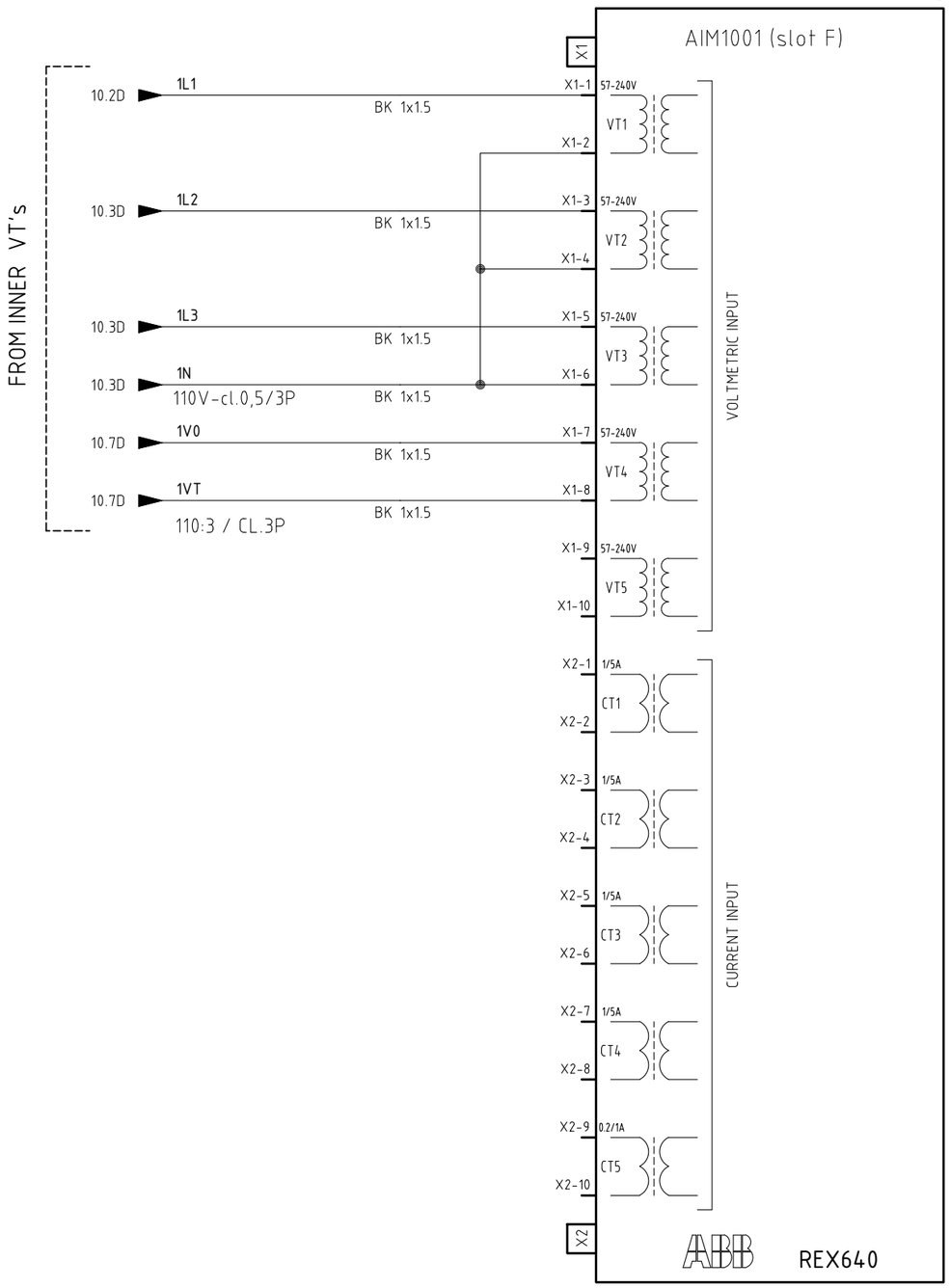
SHEET 1.7

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 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)
1	14/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

= + A6

DWG n° : 231151/SD/15

Item n° : PF1113279

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1

"REX640"' Protection Wiring

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

SCALE : NTS

A3

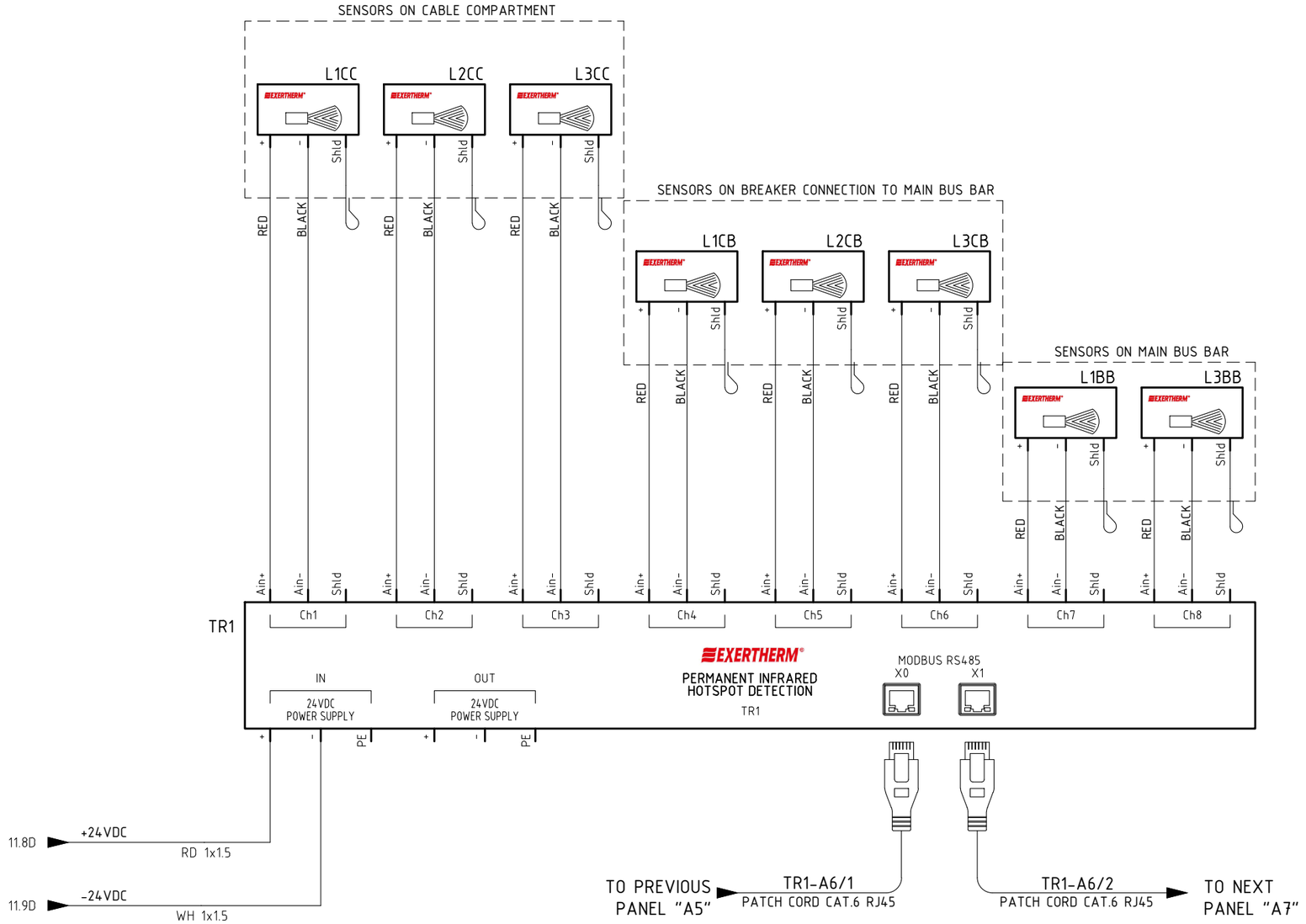
DRAWING NO. 1723002197-EL-DG-00015

SHEET 18

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 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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+A6

DWG n° : 231151/SD/15

Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1

Extherm Device

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 1.9

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

COMMAND CIRCUITS

ENABLING C.B. TRUCK ENCLOSURE DOOR AND EARTHING SWITCH

UNLOCKING CIRCUIT BRAKER ENCLOSURE DOOR

ENABLING EARTHING SWITCH COMMAND

ENABLING RACK-IN AND RACK-OUT CIRCUIT BRAKER [LOCKING MAGNET]

ENABLING CIRCUIT BREAKER [LOCKING MAGNET]

11.4D +CL 110VDC (CL) — RD 1x1.5 — +CL 21.1A

P1 BK 13 14

KT1 20.2D 16 18 30" 15

21 RD 1x1.5

QM ISOLATED BGT5 7.4B BGT5-53 BGT5-54

5 XM 6 XM

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

KIRF 22.9D 22 24 21

22 RD 1x1.5

FP1 16.3A X1-7 X1-8 23 S01 REX640 X1 Slot G X1-6

24 RD 1x1.5

25 RD 1x1.5

7 XM 8 XM

27 RD 1x1.5

9 XM 10 XM

26 RD 1x1.5

28 RD 1x1.5

QM 1 2 RLE4 7.4B

BGE BGE-1 BGE-2 RLE3 9.3C

QM XDB-45 XDB-46 RLE2 7.4B

QM XDB-10 XDB-20 BGT3 RLE1 7.4B

20 RD 1x1.5

KT1 A1 A2 B1 30"

11.4D -CL — WH 1x1.5 — -CL 21.1E

20.3A 15 16 18

24.9A 25 26 28

=						
+ A6						
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/15

Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1

Command Circuit

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

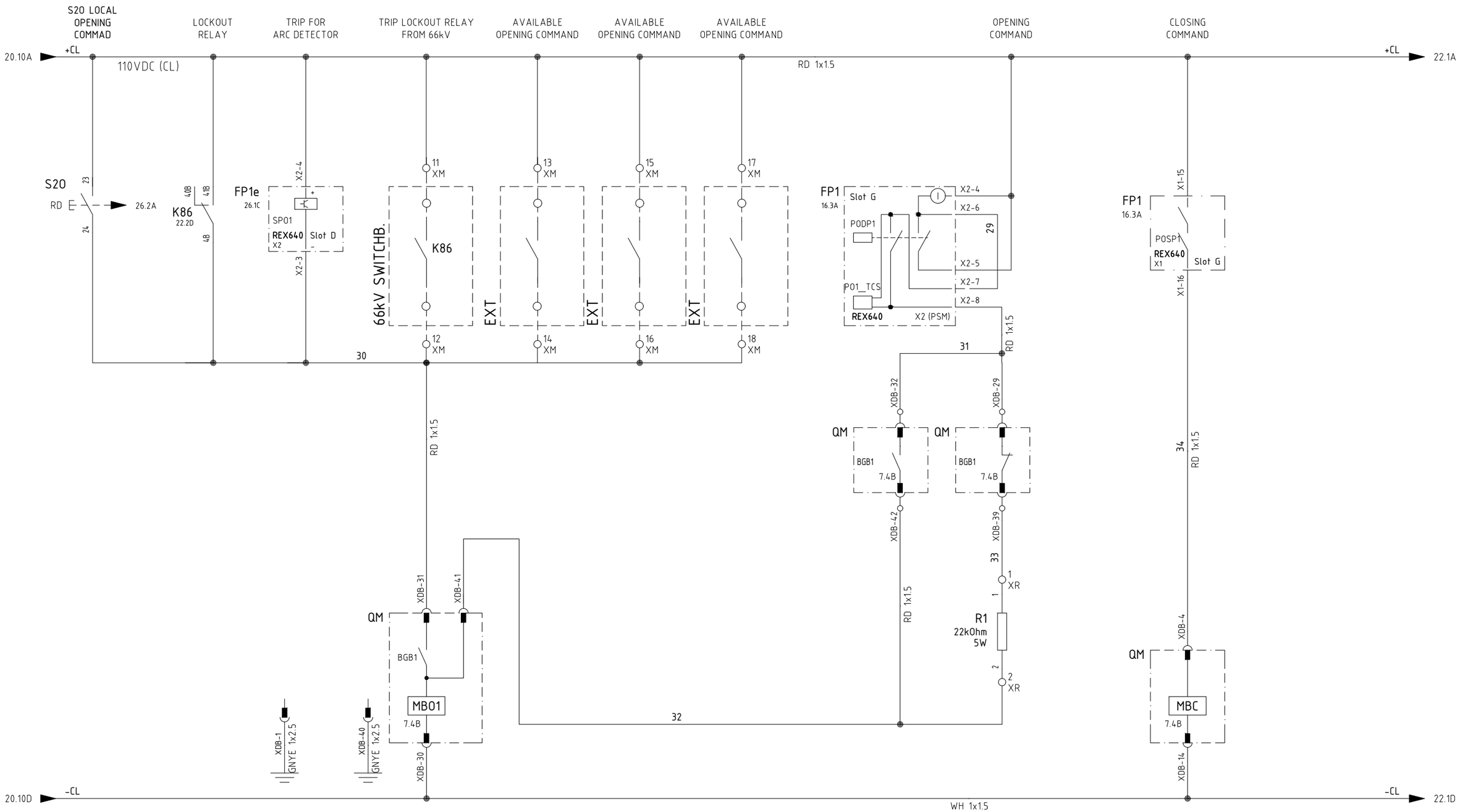
SHEET 20

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

CLOSING/OPENING COMMAND CIRCUITS



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)

=
+A6
DWG n° : 231151/SD/15
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1
Command Circuit

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

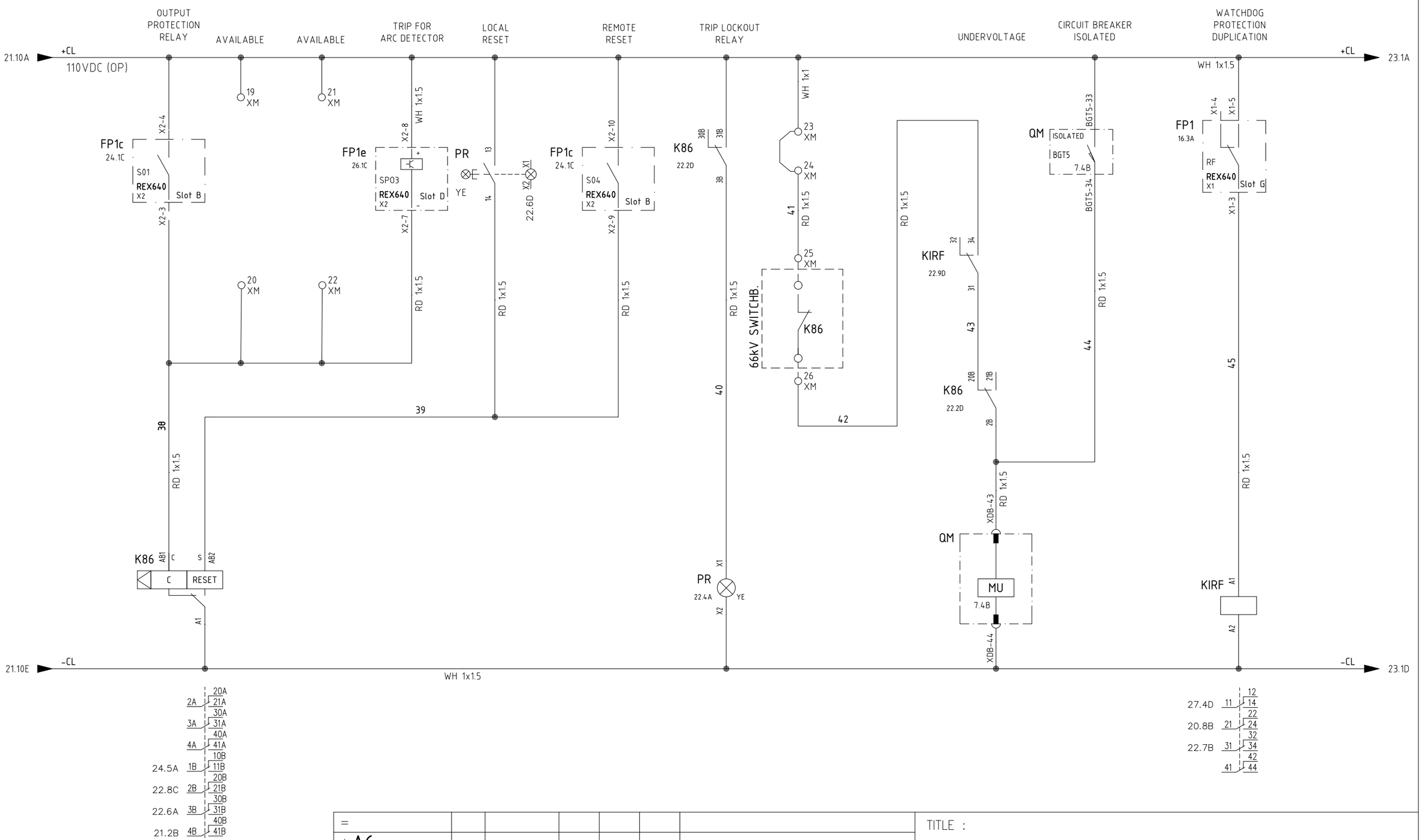
SHEET 21

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

COMMAND CIRCUITS



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+ A6							
DWG n° : 231151/SD/15	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 INCOMING FEEDER TR-100AD1

Command Circuit

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

SCALE : NTS

A3

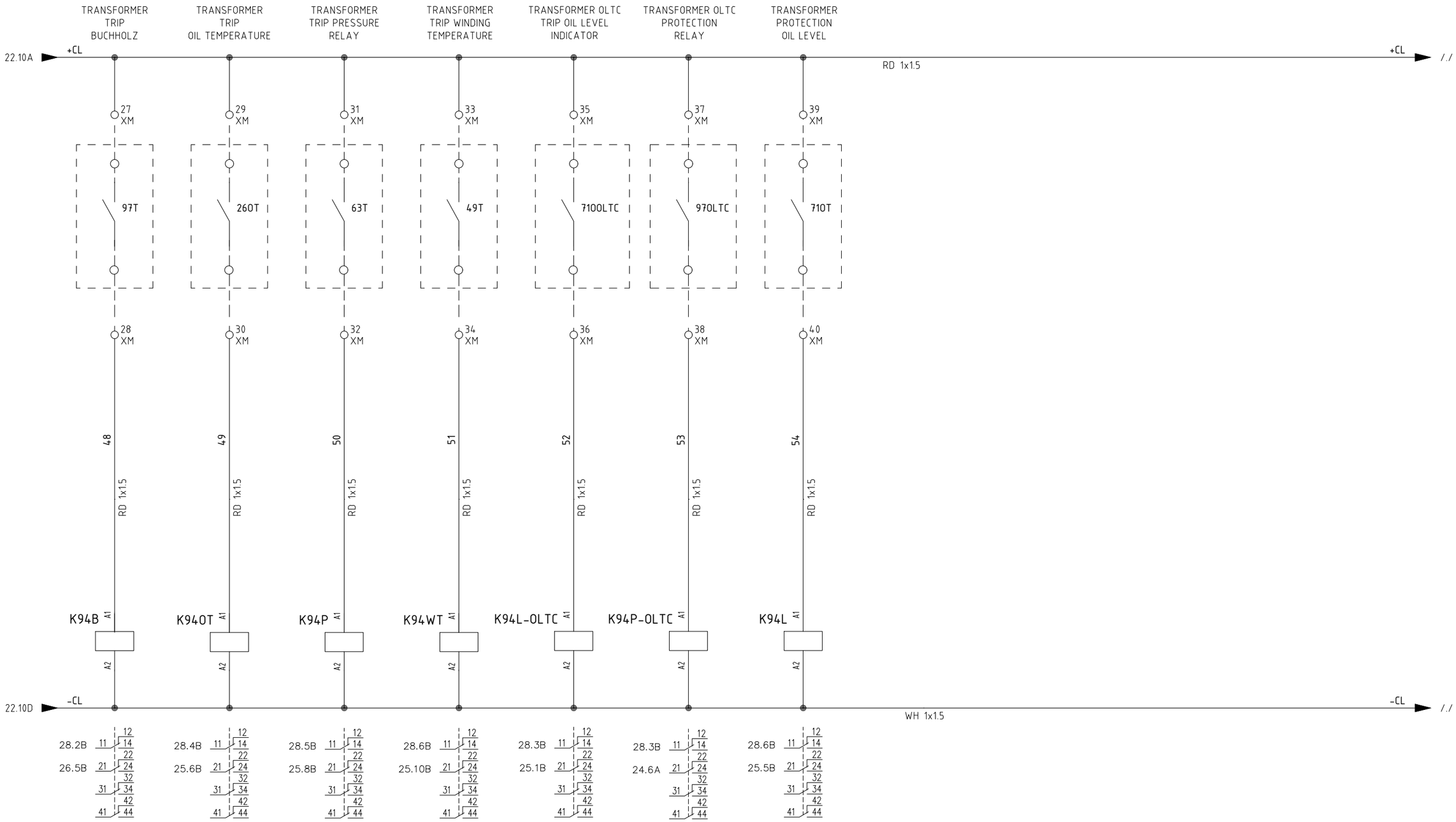
DRAWING NO. 1723002197-EL-DG-00015

SHEET 2.2

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03



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+ A6							
DWG n° : 231151/SD/15	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 INCOMING FEEDER TR-100AD1

Command Circuit

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 23

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

"REX640" PROTECTION WIRING - DIGITAL INPUT

C.B. CLOSED | C.B. OPENED | CIRCUIT BREAKER SERVICE POSITION | CIRCUIT BREAKER TEST POSITION | EARTH SWITCH OPENED | EARTH SWITCH CLOSED | K86 RELAY TRIPPED | C.B. SPRING DISCHARGE | TRANSFORMER PROTECTION RELAY OLTC | SELECTOR IN LOCAL POSITION | SELECTOR IN REMOTE POSITION | EXTERNAL CLOSING INTERLOCK | FROM 66kV M.V. SWBD CB OPENED (OPENING COMMAND) | UNLOCKING EARHTING SWITCH/ TRUCK C.B.

16.10A +PR 110VDC (PR) — RD 1x1.5 — +PR 25.1A

XDB-11 | XDB-21 | XDB-22 | QM BGB1/2 7.4B | BGT4-51 | BGT4-52 | QM CONNECTED BGT4 7.4B | BGT5-23 | BGT5-24 | QM ISOLATED BGT5 7.4B | BGE-11 | BGE-12 | BGE 9.3C | BGE-23 | BGE-24 | BGE 9.3C | K86 22.2D 10B 11B 1B | XDB-26 | XDB-36 | QM BGS2 7.4B | K94P-OLTC 22 24 23.5D 21 | SA1 11 12 | SA1 23 24 | 41 XM | 42 XM | 43 XM | 44 XM | 66kV M.V.SWITCHBOARD C.B. OPENED | KT1 20.2D 26 28 30" 25

RD 1x1.5 — 50 X1-1 | 51 X1-2 | 52 X1-3 | 53 X1-5 | 54 X1-6 | 55 X1-7 | 56 X1-9 | 57 X1-10 | 58 X1-11 | 59 X1-13 | 60 X1-14 | 61 X1-15 | 62 X1-17 | 63 X2-1

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

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

16.10A -PR — WH 1x1.5 — -PR 25.1E

FP1c BIO1001 SLOT B — SO1 X2-4 X2-3 | SO2 X2-6 X2-5 | SO3 X2-8 X2-7 | SO4 X2-10 X2-9 | SO5 X2-12 X2-11 | SO6 X2-14 X2-13 | SO7 X2-16 X2-15 | SO8 X2-18 X2-17 — REX640

22.2A | 27.7D | 22.5A | 28.7B

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+ A6					
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/15
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1
"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-00015 | SHEET 24 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

"REX640" PROTECTION WIRING - DIGITAL INPUT

TRANSFORMER TRIP OIL LEVEL INDICATOR OLTC | VT HEALTY CIRCUIT | EARTING SWITCH OPEN (FROM MEASURING UNIT) | CLOSED AUXILIARY CIRCUIT MCB's | CLOSED AUXILIARY V.T. SECONDARY MCB's | TRANSFORMER ALARM MEMBRANE CONTROL | TRANSFORMER TRIP OIL LEVEL | TRANSFORMER ALARM OIL TEMPERATURE | TRANSFORMER TRIP OIL TEMPERATURE | TRANSFORMER ALARM OIL LEVEL | TRANSFORMER SELF DEHYDRATING BREATHER ALARM | TRANSFORMER TRIP OIL PRESSURE | TRANSFORMER ALARM WINDING TEMPERATURE | TRANSFORMER TRIP WINDING TEMPERATURE

24.10A +PR 110VDC (PR) — RD 1x1.5 — +PR 26.1A

K94L-OLTC 23.4D (22/24/21) — 64 RD 1x1.5

QV1 10.2C (12/14/11) — 65 RD 1x1.5
QV2 10.4C (12/14/11) — 66 RD 1x1.5
QV3 10.7C (12/14/11) — 67 BT6-20 RD 1x1.5
PTT 10.2A (21/22) — BT6-22 — BT6-21 — 10.9C 5 — 10.9C 6

25 XC — 35 XC — KA1 — 36 XC — 26 XC

QD2 11.4B (12/14/11) — 69 RD 1x1.5
QD3 11.5B (12/14/11) — 69A RD 1x1.5
QD4 11.8B (12/14/11) — RD 1x1.5

QV5 15.2B (12/14/11) — 71 RD 1x1.5
QV4 14.2C (12/14/11) — RD 1x1.5

45 XM — 89T.1 K94L 23.6D (22/24/21) — 46 XM — RD 1x1.5
47 XM — 26OT — 48 XM — RD 1x1.5
K94OT 23.2D (22/24/21) — 97802 — 48 XM — RD 1x1.5
49 XM — 71OT — 50 XM — RD 1x1.5
51 XM — 89T.2 — 52 XM — RD 1x1.5
K94P 23.3D (22/24/21) — 97803 — RD 1x1.5
53 XM — 49T — 54 XM — RD 1x1.5
K94WT 23.4D (22/24/21) — 97804 — RD 1x1.5

72 — 73 — 74 — 75 — 76 — 77 — 78 — 79 — 80 — 81

X1-1 X1-2 X1-3 X1-5 X1-6 X1-7 X1-9 X1-10 X1-11 X1-13 X1-14 X1-15 X1-17 X2-1

FP1d
BIO1001
SLOT C
ABB
REX640
BI1 BI2 BI3 BI4 BI5 BI6 BI7 BI8 BI9 BI10 BI11 BI12 BI13 BI14

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

24.10D -PR — WH 1x1.5 — -PR 26.1D

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+A6

DWG n° : 231151/SD/15
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 INCOMING FEEDER TR-100AD1
"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-00015

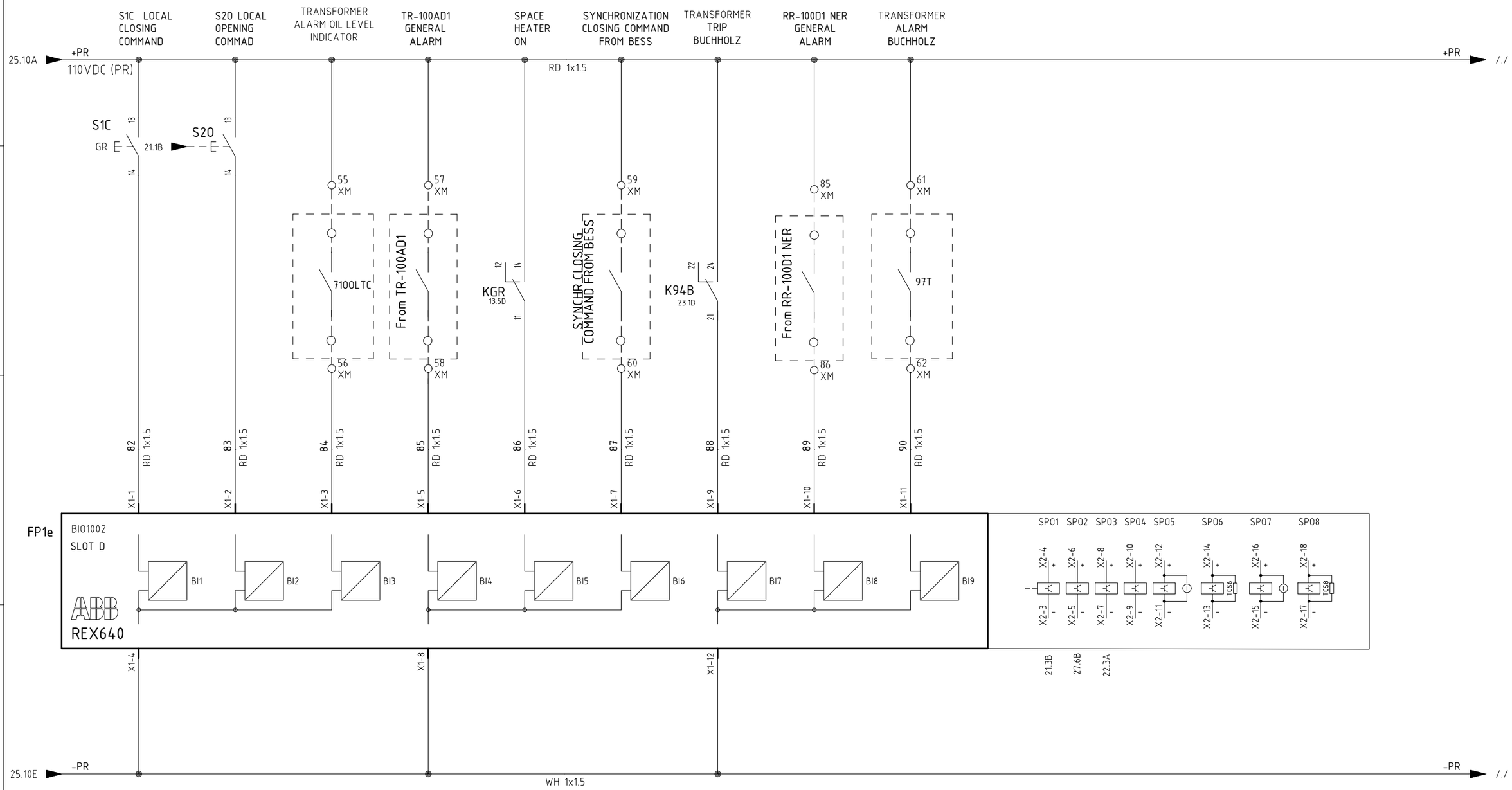
SHEET 25

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

"REX640" PROTECTION WIRING - DIGITAL INPUT



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	+ A6						
	DWG n° : 231151/SD/15	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 INCOMING FEEDER TR-100AD1

"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-00015

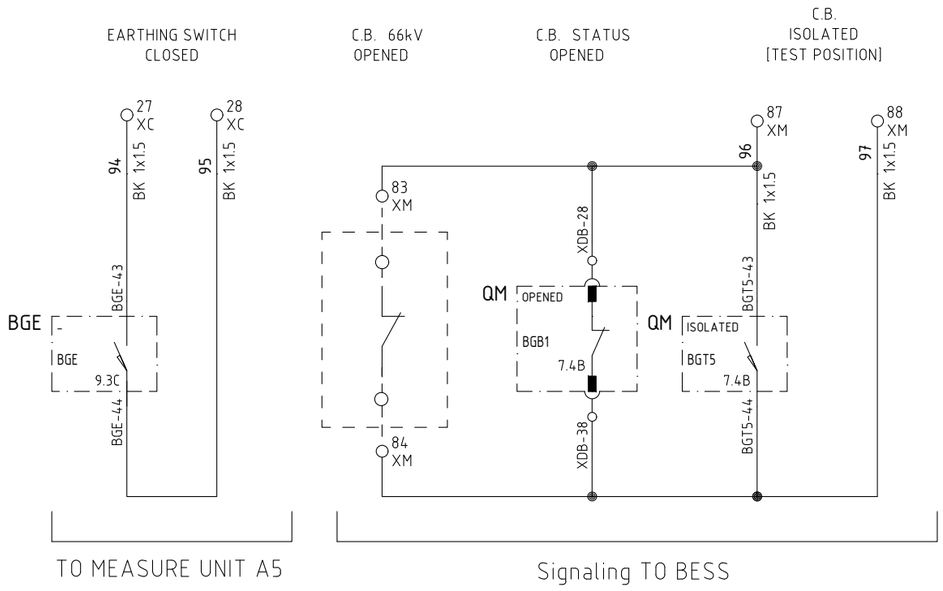
SHEET 26

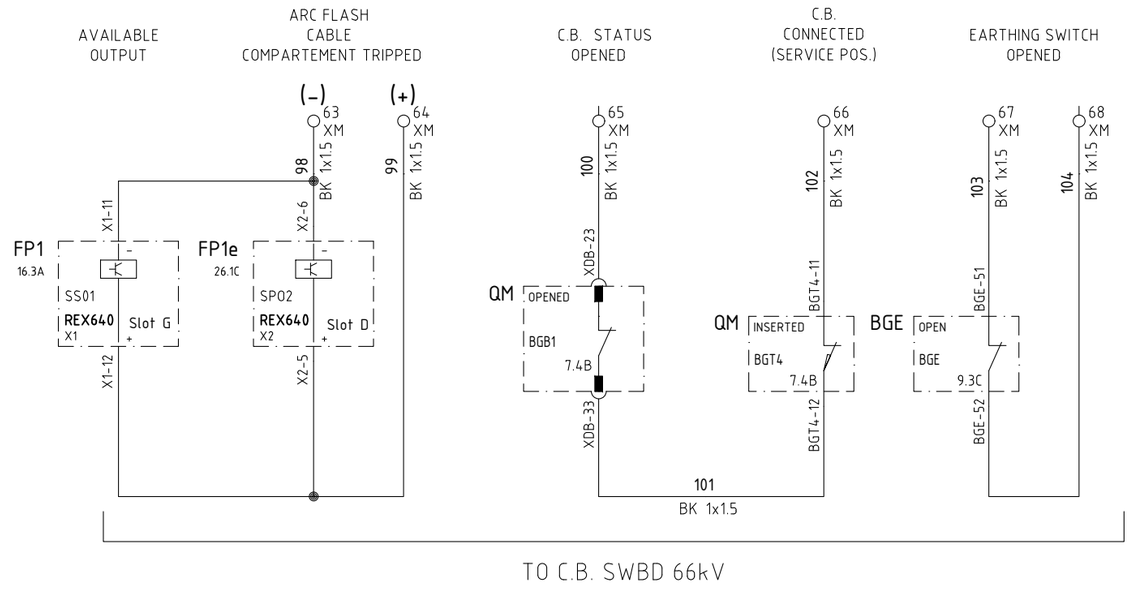
REV. 03

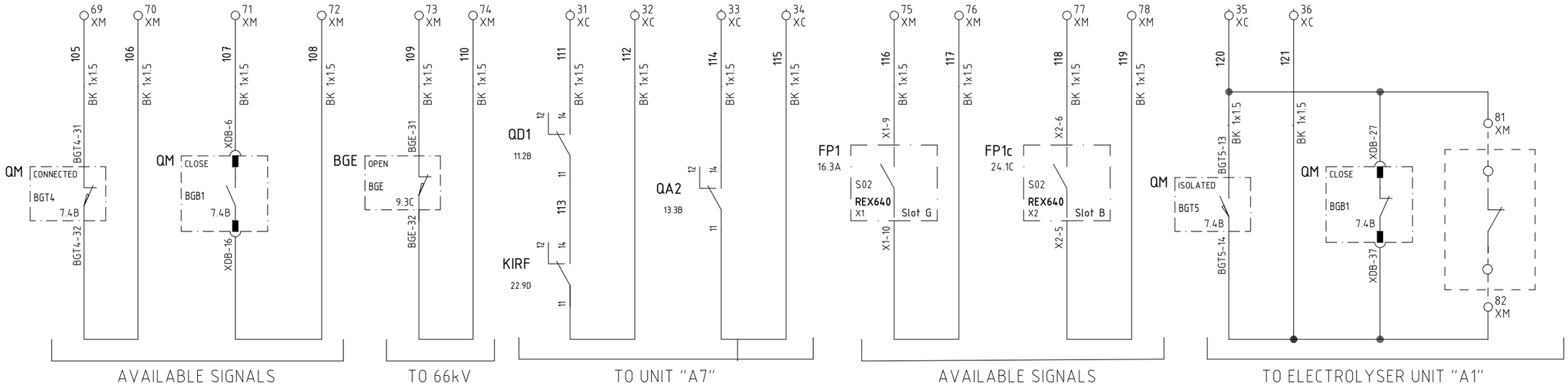
F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

AVAILABLE SIGNALS







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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+ A6

DWG n° : 231151/SD/15

Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1

Availables Signals

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

SCALE : NTS

A3

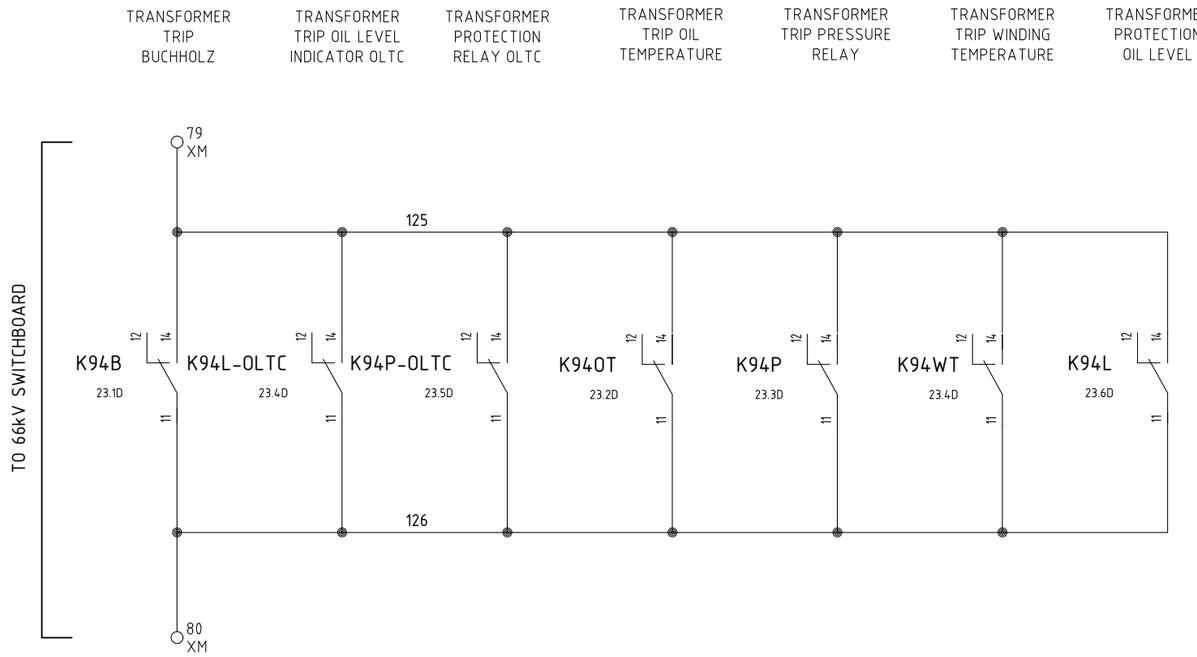
DRAWING NO. 1723002197-EL-DG-00015

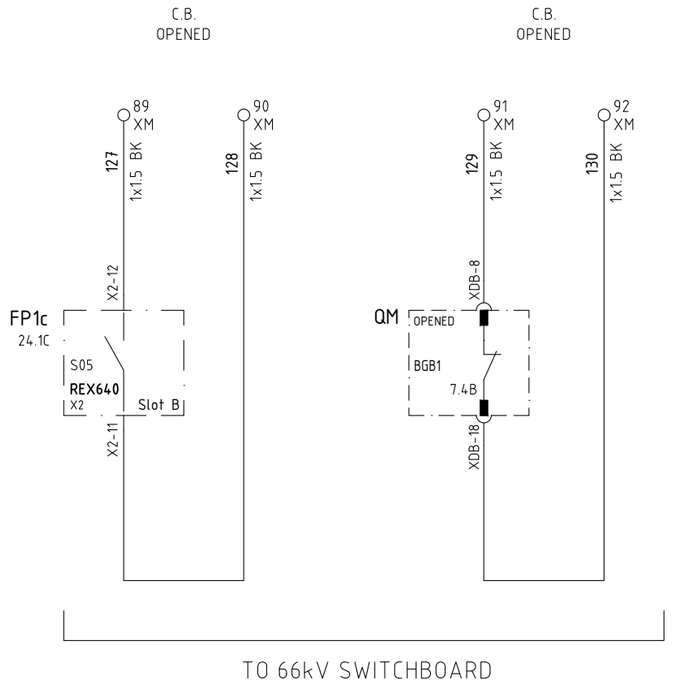
SHEET 2,7

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

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+ A6

DWG n° : 231151/SD/15

Item n° : PF1113279

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1

Available Signals

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 28

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

TYP - INCOMING
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
			HB201GR	Cabur	HSCB.6/PT/GR End section - Grey
4	8.5A	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
5	8.5A	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
6	8.5B	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
7	8.5B	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
8	8.5B	6	HB220GR	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	8.5B	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
10	8.5C	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
11	8.5C	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
12	8.5C	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
13	8.5D	6	HB220GR	Cabur	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type
			HB201GR	Cabur	HSCB.6/PT/GR End section - Grey

TYP - INCOMING
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

TYP - INCOMING
XR

NumM	Fg.	Sez.	Tipo	Costruttore	Descrizione
1	21.7D	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
2	21.7D	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/15
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)
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CROSSWIND
ROSETTI MARINO
IMESA ELECTRICAL ENGINEERING

TITLE :
SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1
Terminal strips

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

A3 | DRAWING NO. 1723002197-EL-DG-00015 | SHEET 29 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

TYP - INCOMING

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
25	25.3A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
26	25.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
27	27.1A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
28	27.2A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
29		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
30		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
31	27.4C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
32	27.4C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
33	27.5C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
34	27.5C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
35	27.8C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
36	27.8C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
37		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type

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DWG n° : 231151/SD/15

Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

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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)
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TITLE :

SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1

Terminal strips

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 3.0

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

TYP - INCOMING

XC

Interconnection Terminals

NumM	Fg.	Sez.	Tipo	Costruttore	Descrizione
38		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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+A6

DWG n° : 231151/SD/15

Item n° : PF1113279

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

ROSETTI MARINO

TITLE :

SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1

Terminal strips

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 31

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

TYP - INCOMING

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
4	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
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	20.8C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
10	20.8C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
11	21.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
12	21.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
13	21.4B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
14	21.4B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
15	21.5B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
16	21.5B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
17	21.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
18	21.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
19	22.2A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
20	22.2B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
21	22.3A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
22	22.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
23	22.6A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
24	22.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
25	22.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
26	22.6C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
27	23.1A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
28	23.1B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
29	23.2A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
30	23.2B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
31	23.3A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
32	23.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
33	23.4A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
34	23.4B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
35	23.4A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
36	23.4B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
37	23.5A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
38	23.5B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
39	23.6A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
40	23.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type

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DWG n° : 231151/SD/15

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 INCOMING FEEDER TR-100AD1

Terminal strips

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 3.2

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

TYP - INCOMING

XM

Interface Terminals

NumM	Fg.	Sez.	Tipo	Costruttore	Descrizione
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	24.9A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
44	24.9B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
45	25.5A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
46	25.5B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
47	25.6A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
48	25.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
49	25.7A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
50	25.7B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
51	25.8A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
52	25.8B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
53	25.9A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
54	25.9B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
55	26.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
56	26.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
57	26.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
58	26.3B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
59	26.4B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
60	26.4B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
61	26.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
62	26.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
63	27.6A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
64	27.7A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
65	27.8A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
66	27.9A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
67	27.9A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
68	27.10A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
69	27.1C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
70	27.2C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
71	27.2C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
72	27.3C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
73	27.3C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
74	27.3C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
75	27.6C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
76	27.6C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
77	27.7C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
78	27.7C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
79	28.2A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
80	28.2C	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
81	27.9D	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type

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DWG n° : 231151/SD/15

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 INCOMING FEEDER TR-100AD1

Terminal strips

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 33

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

TYP - INCOMING

XM

Interface Terminals

NumM	Fg.	Sez.	Tipo	Costruttore	Descrizione
82	27.9D	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
83	27.2A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
84	27.2B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
85	26.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
86	26.6B	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
87	27.4A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
88	27.4A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
89	28.7A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
90	28.8A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
91	28.9A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
92	28.9A	4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
93		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
94		4	HM250GR	Cabur	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type
			HM251GR	Cabur	HMT.4/PT/GR End section - Grey

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	A6	INCOMING FEEDER TR-100AD1
BGE	9	1VCF599700R0131	1	EARTHING SWITCH ST-E 17.31 150	ABB	A6	INCOMING FEEDER TR-100AD1
		1VCF599504R0063	1	KEY LOCKS ON EARTHING SWITCH	ABB	A6	INCOMING FEEDER TR-100AD1
		1VCF599700R0290	1	EARTHING SWITCH OPERATING LEVER	ABB	A6	INCOMING FEEDER TR-100AD1
		1VCF599505R0002	1	10 AUX CONTACTS FOR EARTHING SWITCH	ABB	A6	INCOMING FEEDER TR-100AD1
C1	9	43931118	1	VPIS 3,3÷36KV - DEVICE SIGNALLING VOLTAGE PRESENT KIT	ELECTRONSYSTEM	A6	INCOMING FEEDER TR-100AD1
CB	7	1VCF698000R0012	1	OPTICAL FIBER CABLE PRE-MANUFACT. LENS L=5M	ABB	A6	INCOMING FEEDER TR-100AD1
CC	9	1VCF698000R0012	1	OPTICAL FIBER CABLE PRE-MANUFACT. LENS L=5M	ABB	A6	INCOMING FEEDER TR-100AD1
E1	13	74041	1	LED LAMP 4W 4000K 313x30x22	Beghelli	A6	INCOMING FEEDER TR-100AD1
E8	10	1VCF501000R0001	1	RESISTOR TR318 27R/J 27ohm 500W L=2,5M	ABB	A6	INCOMING FEEDER TR-100AD1
EH1	13	R1R150230	1	SPACE HEATER SKR 150W ALIM. 220VCA	Torresan	A6	INCOMING FEEDER TR-100AD1
FF1	10	1YMB751209M1502	1	FUSE-LINKS FOR VOLTAGE TRANSFORMER PROTECTION 6/12kV 2A 192x53mm - CEF-VT	ABB	A6	INCOMING FEEDER TR-100AD1
FF2	10	1YMB751209M1502	1	FUSE-LINKS FOR VOLTAGE TRANSFORMER PROTECTION 6/12kV 2A 192x53mm - CEF-VT	ABB	A6	INCOMING FEEDER TR-100AD1
FF3	10	1YMB751209M1502	1	FUSE-LINKS FOR VOLTAGE TRANSFORMER PROTECTION 6/12kV 2A 192x53mm - CEF-VT	ABB	A6	INCOMING FEEDER TR-100AD1
FP1	16	1VCF698331R0001	1	REX640B10NN+AIM1+AIM1+ARC1+BIO1+BIO1+BI+O2+CMP2+COM1+LNG1+MCT1+PCL4+PSM3+SCT	ABB	A6	INCOMING FEEDER TR-100AD1
HGR	13	TRT-10A230V-NC	1	Regolable Thermostat -10÷80°C 1NC IP20 DIN Mounting	Fandis	A6	INCOMING FEEDER TR-100AD1
K86	22	RMBE13-C110T	1	MONOSTABLE RELAY 110VDC 7SC-5A TROP.	Amra	A6	INCOMING FEEDER TR-100AD1
		PAVM321	1	SOCKET WITH SCREW TO RELAY TYPE PAVM321	Amra	A6	INCOMING FEEDER TR-100AD1
K94B	23	ER 589 2	1	CR-M110DC4L SUPPLY 110VDC 4C/O 250V/6A LED	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 728 6	1	CR-MH1 METAL RETAINING JUMPER	ABB	A6	INCOMING FEEDER TR-100AD1
K94L	23	ER 589 2	1	CR-M110DC4L SUPPLY 110VDC 4C/O 250V/6A LED	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 728 6	1	CR-MH1 METAL RETAINING JUMPER	ABB	A6	INCOMING FEEDER TR-100AD1
K94L-OLTC	23	ER 589 2	1	CR-M110DC4L SUPPLY 110VDC 4C/O 250V/6A LED	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 728 6	1	CR-MH1 METAL RETAINING JUMPER	ABB	A6	INCOMING FEEDER TR-100AD1
K94OT	23	ER 589 2	1	CR-M110DC4L SUPPLY 110VDC 4C/O 250V/6A LED	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 728 6	1	CR-MH1 METAL RETAINING JUMPER	ABB	A6	INCOMING FEEDER TR-100AD1
K94P	23	ER 589 2	1	CR-M110DC4L SUPPLY 110VDC 4C/O 250V/6A LED	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 728 6	1	CR-MH1 METAL RETAINING JUMPER	ABB	A6	INCOMING FEEDER TR-100AD1
K94P-OLTC	23	ER 589 2	1	CR-M110DC4L SUPPLY 110VDC 4C/O 250V/6A LED	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 728 6	1	CR-MH1 METAL RETAINING JUMPER	ABB	A6	INCOMING FEEDER TR-100AD1
K94WT	23	ER 589 2	1	CR-M110DC4L SUPPLY 110VDC 4C/O 250V/6A LED	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 728 6	1	CR-MH1 METAL RETAINING JUMPER	ABB	A6	INCOMING FEEDER TR-100AD1
KGR	13	ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 728 6	1	CR-MH1 METAL RETAINING JUMPER	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 552 0	1	CR-M230AC2L SUPPLY 230VAC 2C/O 250V/6A LED	ABB	A6	INCOMING FEEDER TR-100AD1
KIRF	22	ER 589 2	1	CR-M110DC4L SUPPLY 110VDC 4C/O 250V/6A LED	ABB	A6	INCOMING FEEDER TR-100AD1
		ER 686 6	1	CR-M4SS SOCKET STANDARD X 2/4 C/O(CR-M)	ABB	A6	INCOMING FEEDER TR-100AD1

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DWG n° : 231151/SD/15
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 INCOMING FEEDER TR-100AD1
Bill of Materials

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

A3 | DRAWING NO. 1723002197-EL-DG-00015 | SHEET 35 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

Nome/Item	Fg/Sh	Tipo/Type	Q.tà	Descrizione/Description	Costruttore/Manufacturer	Ubicazione (descrizione)	Quadro (descrizione)
KIRF	22	ER 728 6	1	CR-MH1 METAL RETAINING JUMPER	ABB	A6	INCOMING FEEDER TR-100AD1
KT1	20	H3DKM2ACDC24240	1	MULTIFUNCTION TIMER RELAY Vaux=24÷240Vac/dc - 2SC	Omron	A6	INCOMING FEEDER TR-100AD1
L1C	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A6	INCOMING FEEDER TR-100AD1
L1I	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A6	INCOMING FEEDER TR-100AD1
L1MS	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A6	INCOMING FEEDER TR-100AD1
L2C	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A6	INCOMING FEEDER TR-100AD1
L2I	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A6	INCOMING FEEDER TR-100AD1
L3C	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A6	INCOMING FEEDER TR-100AD1
L3I	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A6	INCOMING FEEDER TR-100AD1
L3MS	19	801100	1	IR SENSOR 10m CABLE	EXERTHERM	A6	INCOMING FEEDER TR-100AD1
LS	13	Z15GW2-1-1453270	1	MICROSWITCH 1sc	Omron	A6	INCOMING FEEDER TR-100AD1
		APB-PG	1	COVER TO MICRO-SWITCH	Omron	A6	INCOMING FEEDER TR-100AD1
OD1	9	990003	1	MEDIUM VOLTAGE DISCHARGE DMI-9-10-1-L Ur=9kV	DEHN	A6	INCOMING FEEDER TR-100AD1
OD2	9	990003	1	MEDIUM VOLTAGE DISCHARGE DMI-9-10-1-L Ur=9kV	DEHN	A6	INCOMING FEEDER TR-100AD1
OD3	9	990003	1	MEDIUM VOLTAGE DISCHARGE DMI-9-10-1-L Ur=9kV	DEHN	A6	INCOMING FEEDER TR-100AD1
P1	20	KW 080 2	1	MP1-10B BLACK PUSH BUTTON UNSTABLE	ABB	A6	INCOMING FEEDER TR-100AD1
		EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	A6	INCOMING FEEDER TR-100AD1
		EO 570 5	1	MCB-10 CONTACT NO FOR PUSHBUTTONS	ABB	A6	INCOMING FEEDER TR-100AD1
PR	22	KW 101 6	1	YELLOW LIGHT PUSH BUTTON	ABB	A6	INCOMING FEEDER TR-100AD1
		KV 022 5	1	MLBL-05W YELLOW LED BLOCK INTEGRATED 110÷130VAC	ABB	A6	INCOMING FEEDER TR-100AD1
		EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	A6	INCOMING FEEDER TR-100AD1
		EO 570 5	1	MCB-10 CONTACT NO FOR PUSHBUTTONS	ABB	A6	INCOMING FEEDER TR-100AD1
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	A6	INCOMING FEEDER TR-100AD1
		1VCF499800R0302	1	NAMEPLATE IN ENGLISH LANGUAGE FOR TV/F	ABB	A6	INCOMING FEEDER TR-100AD1
QA2	13	B427917	1	DDA202 AC 25A 300MA RCD BLOCK 2P	ABB	A6	INCOMING FEEDER TR-100AD1
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A6	INCOMING FEEDER TR-100AD1
		S550284	1	S202M C10 AUTOMATIC CIRCUIT-BREAKER 10KA 2P	ABB	A6	INCOMING FEEDER TR-100AD1
QD1	11	A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A6	INCOMING FEEDER TR-100AD1
		S550253	1	S202M C 4 AUTOMATIC CIRCUIT-BREAKER 10KA 2P	ABB	A6	INCOMING FEEDER TR-100AD1
QD2	11	S550253	1	S202M C 4 AUTOMATIC CIRCUIT-BREAKER 10KA 2P	ABB	A6	INCOMING FEEDER TR-100AD1
		a563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A6	INCOMING FEEDER TR-100AD1
QD3	11	S550253	1	S202M C 4 AUTOMATIC CIRCUIT-BREAKER 10KA 2P	ABB	A6	INCOMING FEEDER TR-100AD1
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A6	INCOMING FEEDER TR-100AD1
QD4	11	A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A6	INCOMING FEEDER TR-100AD1
		S550239	1	S202M C 2 AUTOMATIC CIRCUIT BREAKER 10KA 2P	ABB	A6	INCOMING FEEDER TR-100AD1
QM	7	1VCF337121R1141	1	VACUUM CIRCUIT BREAKER VD4/P 3P 12KV 630A 25KA WITHDRAWABLE 12.06.25 P150	ABB	A6	INCOMING FEEDER TR-100AD1
		1VCF339700R0882	1	NAMEPLATE IN ENGLISH LANGUAGE FOR CIRCUIT-BREAKER	ABB	A6	INCOMING FEEDER TR-100AD1
		1VCF339700R1885	1	VD4 FOR POWERCUBE	ABB	A6	INCOMING FEEDER TR-100AD1
		1VCF349700R4881	1	WIRING WITH AFUMEX N07G9-K CABLE	ABB	A6	INCOMING FEEDER TR-100AD1
		1VCF339701R2909	1	FIRST OPENING COIL IST. 110Vdc (MB01)	ABB	A6	INCOMING FEEDER TR-100AD1
		1VCF339800R6913	1	CLOSING COIL 110..127 Vac/dc (MBC)	ABB	A6	INCOMING FEEDER TR-100AD1
QV1	10	S550680	1	S204M C 2 AUTOMATIC CIRCUIT-BREAKER 10KA 4P	ABB	A6	INCOMING FEEDER TR-100AD1
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A6	INCOMING FEEDER TR-100AD1

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+A6

DWG n° : 231151/SD/15
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 INCOMING FEEDER TR-100AD1
Bill of Materials

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 3.6

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03

Nome/Item	Fg/Sh	Tipo/Type	Q.tà	Descrizione/Description	Costruttore/Manufacturer	Ubicazione (descrizione)	Quadro (descrizione)
QV2	10	S550680	1	S204M C 2 AUTOMATIC CIRCUIT-BREAKER 10KA 4P	ABB	A6	INCOMING FEEDER TR-100AD1
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A6	INCOMING FEEDER TR-100AD1
QV3	10	A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A6	INCOMING FEEDER TR-100AD1
		S550239	1	S202M C 2 AUTOMATIC CIRCUIT BREAKER 10KA 2P	ABB	A6	INCOMING FEEDER TR-100AD1
QV4	14	S550680	1	S204M C 2 AUTOMATIC CIRCUIT-BREAKER 10KA 4P	ABB	A6	INCOMING FEEDER TR-100AD1
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A6	INCOMING FEEDER TR-100AD1
QV5	15	S550239	1	S202M C 2 AUTOMATIC CIRCUIT BREAKER 10KA 2P	ABB	A6	INCOMING FEEDER TR-100AD1
		A563819	1	S2-CS/H6R AUXILIARY STATE CONTACT 1CO	ABB	A6	INCOMING FEEDER TR-100AD1
R1	21	01062220	1	RESISTANCE 22kOhm 5W		A6	INCOMING FEEDER TR-100AD1
S1C	26	EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	A6	INCOMING FEEDER TR-100AD1
		EO 570 5	1	MCB-10 CONTACT NO FOR PUSHBUTTONS	ABB	A6	INCOMING FEEDER TR-100AD1
		KW 076 0	1	MP1-10G PUSH BUTTON GREEN WITH BLACK RING	ABB	A6	INCOMING FEEDER TR-100AD1
S2O	21	EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	A6	INCOMING FEEDER TR-100AD1
		EO 570 5	2	MCB-10 CONTACT NO FOR PUSHBUTTONS	ABB	A6	INCOMING FEEDER TR-100AD1
		KW 075 2	1	MP1-10R PUSH BUTTON RED WITH BLACK RING	ABB	A6	INCOMING FEEDER TR-100AD1
SA1	24	EO 569 7	1	MCBH-00 FIXING SUPPORT 3 CONTACTS	ABB	A6	INCOMING FEEDER TR-100AD1
		EO 571 3	1	MCB-01 CONTACT NC FOR PUSHBUTTOM	ABB	A6	INCOMING FEEDER TR-100AD1
		EO 570 5	1	MCB-10 CONTACT NO FOR PUSHBUTTONS	ABB	A6	INCOMING FEEDER TR-100AD1
		KW 329 3	1	M2SS2-10B HANDLE SELECTOR 2P 90° BLACK RING BLACK	ABB	A6	INCOMING FEEDER TR-100AD1
TI-L1	8	ATB-10-BS_011	1	CURRENT TRANSFORMER 7,2kV 50Hz 600/1-1A cl.0,5-5P20 (5VA) - cl.5P20 (10VA)- 25kA	ESITAS	A6	INCOMING FEEDER TR-100AD1
TI-L2	8	ATB-10-BS_011	1	CURRENT TRANSFORMER 7,2kV 50Hz 600/1-1A cl.0,5-5P20 (5VA) - cl.5P20 (10VA)- 25kA	ESITAS	A6	INCOMING FEEDER TR-100AD1
TI-L3	8	ATB-10-BS_011	1	CURRENT TRANSFORMER 7,2kV 50Hz 600/1-1A cl.0,5-5P20 (5VA) - cl.5P20 (10VA)- 25kA	ESITAS	A6	INCOMING FEEDER TR-100AD1
TO	9	KAP-150/250-95	1	CURRENT TRANSFORMER 0,72/3/-kV 100/1 50Hz	ESITAS	A6	INCOMING FEEDER TR-100AD1
TR1	19	800208	1	MODBUS DATACARD 8 CHANNELS	Exertherm	A6	INCOMING FEEDER TR-100AD1
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	A6	INCOMING FEEDER TR-100AD1
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	A6	INCOMING FEEDER TR-100AD1
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	A6	INCOMING FEEDER TR-100AD1
XC		HM320GR	12	HMM.6/GR Feed-through Terminal Block - Grey (6 mmq)	Cabur	A6	INCOMING FEEDER TR-100AD1
		HM250GR	26	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type	Cabur	A6	INCOMING FEEDER TR-100AD1
		HM251GR	2	HMT.4/PT/GR End section - Grey	Cabur	A6	INCOMING FEEDER TR-100AD1
		HM321GR	3	HMT.6/PT/GR End section - Grey	Cabur	A6	INCOMING FEEDER TR-100AD1
XI		HB220GR	13	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - spring type	Cabur	A6	INCOMING FEEDER TR-100AD1
		HB201GR	3	HSCB.6/PT/GR End section - Grey	Cabur	A6	INCOMING FEEDER TR-100AD1
XM		HM250GR	94	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type	Cabur	A6	INCOMING FEEDER TR-100AD1
		HM251GR	2	HMT.4/PT/GR End section - Grey	Cabur	A6	INCOMING FEEDER TR-100AD1
XR		HM250GR	2	HMM.4/GR Feed-through Terminal Block - Grey (4 mmq) - spring type	Cabur	A6	INCOMING FEEDER TR-100AD1
		HM251GR	1	HMT.4/PT/GR End section - Grey	Cabur	A6	INCOMING FEEDER TR-100AD1
XS1	13	E 9447 7	1	SOCKET	ABB	A6	INCOMING FEEDER TR-100AD1
XV		HB210GR	16	HSCB.6/GR Disconnect by slide link Terminal Block - Grey (6 mmq) - Spring type	Cabur	A6	INCOMING FEEDER TR-100AD1
		HB201GR	5	HSCB.6/PT/GR End section - Grey	Cabur	A6	INCOMING FEEDER TR-100AD1

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TITLE :

SG-100D1 - FUNCTIONAL INCOMING FEEDER TR-100AD1

Bill of Materials

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00015

SHEET 3.7

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00015 Rev.03