"SG-100D1" HV SWBD 6,6kV (UNIT A2)

LOGICAL DIAGRAM

TRANSFORMER FEEDER TR-200ED1

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+A7					
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
2	28/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for construction (AFC)
1	21/05/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)
0	04/04/2024	Giulietti	Flamminio	Sigismondi	Issued for review (IFR)

DWG n° : 231151/SD/28

Item n° : PF1113279

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE :

SG-100D1 - LOGICAL TRANSF FEEDER TR-200ED1

Cover

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00028

SHEET 1

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00028 Rev.03

INDEX

Sheet	Description	Revision 0	1	2	3	4	5	6	7	8
1	Cover									
2	Sheets index									
3	Input Protection Relay REX640									
4	Input Protection Relay REX640									
5	Output Protection Relay REX640									
6	Protections REX640									
7	Protections REX640									
8	Contactor Commands									
9	Contactor Commands									
10	Contactor Commands									
11	Contactor Commands									
12	Measures									

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

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+A7

DWG n° : 231151/SD/28

Item n° : PF1113279

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

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE :

SG-100D1 - LOGICAL TRANSF FEEDER TR-200ED1

Sheets index

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

SCALE : NTS

A3

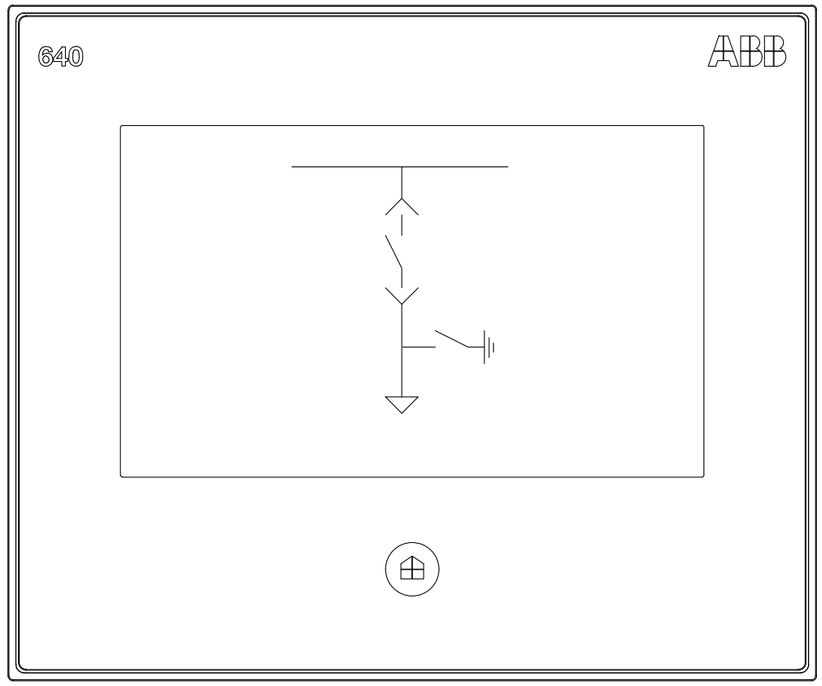
DRAWING NO. 1723002197-EL-DG-00028

SHEET 2

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00028 Rev.03



LHMI - TOUCH DISPLAY

- COMMANDS "CLOSE C.B." AND "OPEN C.B." NON ENABLED
- PUSH BUTTON "REMOTE / LOCAL" NOT ENABLED
- ONLY PUSH BUTTON "RESET" ARC PROTECTION WILL BE 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				

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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DWG n° : 231151/SD/28
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - LOGICAL TRANSF FEEDER TR-200ED1
Input Protection Relay REX640

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

A3 | DRAWING NO. 1723002197-EL-DG-00028 | SHEET 3 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00028 Rev.03

INPUTS

B–X1		
1	BI1	CONTACTOR CLOSED
4		
2	BI2	CONTACTOR OPENED
4		
3	BI3	CONTACTOR SERVICE POSITION
4		
5	BI4	CONTACTOR TEST POSITION
8		
6	BI5	EARTH SWITCH OPENED
8		
7	BI6	EARTH SWITCH CLOSED
8		
9	BI7	RELAY TRIPPED
12		
10	BI8	CONTACTOR READY
12		
11	BI9	FUSES TRIPPED
12		
13	BI10	SELECTOR IN LOCAL POSITION
16		
14	BI11	SELECTOR IN REMOTE POSITION
16		
15	BI12	EXTERNAL CLOSING INTERLOCK
16		
17	BI13	CIRC.BREAKER OPENED (FROM L.V. SWITCHBOARD)
18		

B–X2		
1	BI14	UNLOCKING EARTHING SWITCH / TRUCK CONTACTOR
2		

INPUTS

C–X1		
1	BI1	EMERGENCY OPENING BY SIS
4		
2	BI2	V.T. HEALTY CIRCUIT
4		
3	BI3	EARTHING SWITCH OPEN (FROM MEASURING UNIT)
4		
5	BI4	CLOSED AUXILIARY CIRCUIT MCB's
8		
6	BI5	CLOSED AUXILIARY V.T. SECONDARY MCB's
8		
7	BI6	TRANSF. ALAM BUCHHOLZ
8		
9	BI7	ALARM TRIP BUCHHOLZ
12		
10	BI8	TRANSF. ALARM OIL TEMPERATURE
12		
11	BI9	TRANSF. TRIP OIL TEMPERATURE
12		
13	BI10	TRANSF.ALARM OIL LEVEL
16		
14	BI11	TRANSF. OIL LEVEL VERY LOW ALARM
16		
15	BI12	TRANSF. TRIP OIL PRESSURE
16		
17	BI13	TRANSF. ALARM WINDING TEMPERATURE
18		

B–X2		
1	BI14	TRANSF. TRIP WINDING TEMPERATURE
2		

INPUTS

D–X1		
1	BI1	LOCAL CLOSING COMMAND
4		
2	BI2	LOCAL OPENING COMMAND
4		
3	BI3	CIRC.BREAKER IN TEST POSITION (FROM L.V. SWITCHBOARD)
4		
5	BI4	CIRC.BREAKER TRIPPED (FROM L.V. SWITCHBOARD)
8		
6	BI5	SPACE HEATER "ON"
8		
7	BI6	AVAILABLE REMOTE OPENING COMMNAD
8		
9	BI7	TRANSF. GENERAL ALARM
12		
10	BI8	MCB AND WATCHDOG PROTECTION, RELAY HEALTH (FROM UNIT A1)
12		
11	BI9	SELECTOR SWITCH OF OVERRIDE (SIL ENABLED)
12		

ARC MODULE

LIGHT SENSOR INPUT 1	Slot A1 X11	ARC "MAIN BUS BAR" "BB"
LIGHT SENSOR INPUT 2	Slot A1 X12	ARC "CONTACTOR COMPART." "CB"
LIGHT SENSOR INPUT 3	Slot A1 X13	ARC "CABLE COMPARTEMENT" "CC"
LIGHT SENSOR INPUT 4	Slot A1 X14	

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	REV.	DATE	DRN	CHKD	APPD	DESCRIPTION

IMESA ELECTRICAL ENGINEERING

DWG n° : 231151/SD/28

Item n° : PF1113279

CROSSWIND

ROSETTI MARINO

TITLE :

SG–100D1 – LOGICAL TRANSF FEEDER TR–200ED1

Input Protection Relay REX640

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

SCALE : NTS

A3

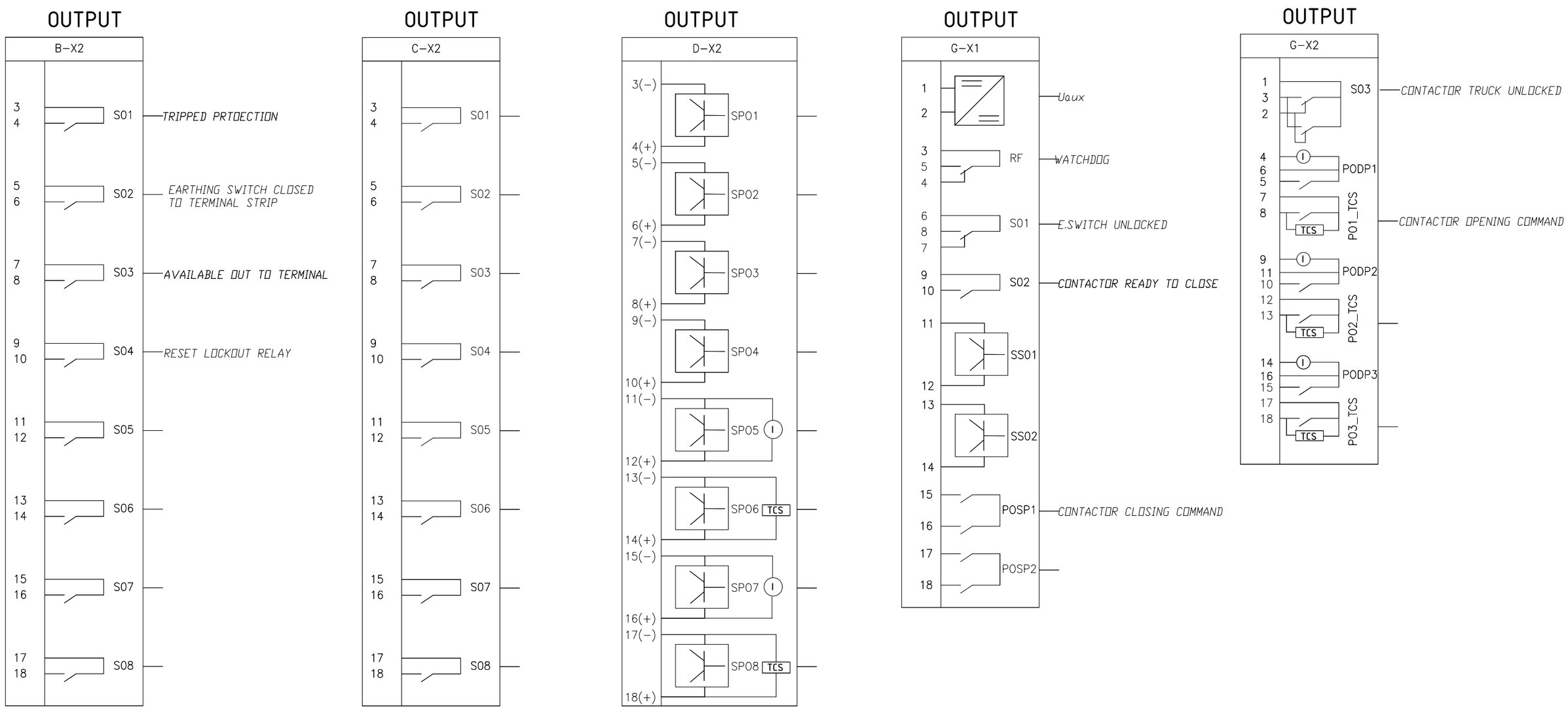
DRAWING NO. 1723002197–EL–DG–00028

SHEET 4

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197–EL–DG–00028 Rev.03



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DWG n° : 231151/SD/28	3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)	
Item n° : PF1113279	2	28/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for construction (AFC)	
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	REV.	DATE	DRN	CHKD	APPD	DESCRIPTION	

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG–100D1 – LOGICAL TRANSF FEEDER TR–200ED1

Output Protection Relay REX640

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

SCALE : NTS

A3

DRAWING NO. 1723002197–EL–DG–00028

SHEET 5

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197–EL–DG–00028 Rev.03

INPUTS

PROTECTIONS REX640 (FP1)

OUTPUTS

7.6D 67

50-1 / 3I>>> / PHIPTOC1 (0 / 1 / Start)

TO EMCS IEC 61850 — 50-1 -PROTECTION OPERATED

51-1 / 3I> / PHLPTOC1 (0 / 1 / Start)

TO EMCS IEC 61850 — 51-1 -PROTECTION OPERATED

TO EMCS IEC 61850 — 51N PROTECTION OPERATED

51N / Io> / EFLPTOC1 (0 / 1 / Start)

59N-2 / Vo> / ROVPTOV2 (0 / 1 / Start)

TO EMCS IEC 61850 — 59N-2 PROTECTION OPERATED

t=0,5"

RESET

K86 9.5A

K86 7.5B

59N 7.8A

LED-5 (RED)

LED-6 (RED)

PROTECTION 8.6B

TO EMCS IEC 61850 — INTERTRIP SEND (TO L.V. SWITCHB.)

B_X2-S01

K86 TRIPPED PROTECTION (0 / 1)

KA1 TRIP PROTECTION FROM LOW VOLTAGE (0 / 1)

D-X1-5

INCOMING VOLTAGE

MAIN BUS BAR VOLTAGE

U3P2 25 SYNC U3P1 SECRSYN (0 / 1 / Start)

SYNCH OK

LED-3 (RED)

SYNCH OK 7.4C

TO EMCS IEC 61850 — 25 SYNCHRO OK

LED-15 (RED)

7.5B 59-2

10.8B TRIPPED TRASF.

9.4B FUSE

ONLY "LIGHT"

50L/50NL ARC ARCSARC1 (0 / 1 / Start) — ARC "MAIN BUS BAR" "BB"

ONLY "LIGHT"

50L/50NL ARC ARCSARC2 (0 / 1 / Start) — ARC "CONTACTOR COMPART." "CB"

ONLY "LIGHT"

50L/50NL ARC ARCSARC3 (0 / 1 / Start) — ARC "CABLE COMPARTEMENT" "CC"

GOOSE FROM INCOMINGS: UNIT :A6

TRIPPED ARC PROTECTION FOR:
- ARC DETECTED ON MAIN BUS BAR (FROM ALL UNITS)
- ARC DETECTED ON C.B. / CONTACTOR COMPARTEMENT (FROM ALL UNITS)
- ARC DETECTED ON CABLE COMPARTEMENT (ONLY CONTACTOR UNIT)

t=0,5"

9.6A K86 ARC

8.6C

LED-9 (RED)

GOOSE TO INCOMINGS: UNIT :A6

0 TRIPPED ARC PROTECTION
1

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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+A7					
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DWG n° : 231151/SD/28

Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - LOGICAL TRANSF FEEDER TR-200ED1

Protections REX640

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00028

SHEET 6

REV. 03

F.to UNI A3: 420mmx297mm

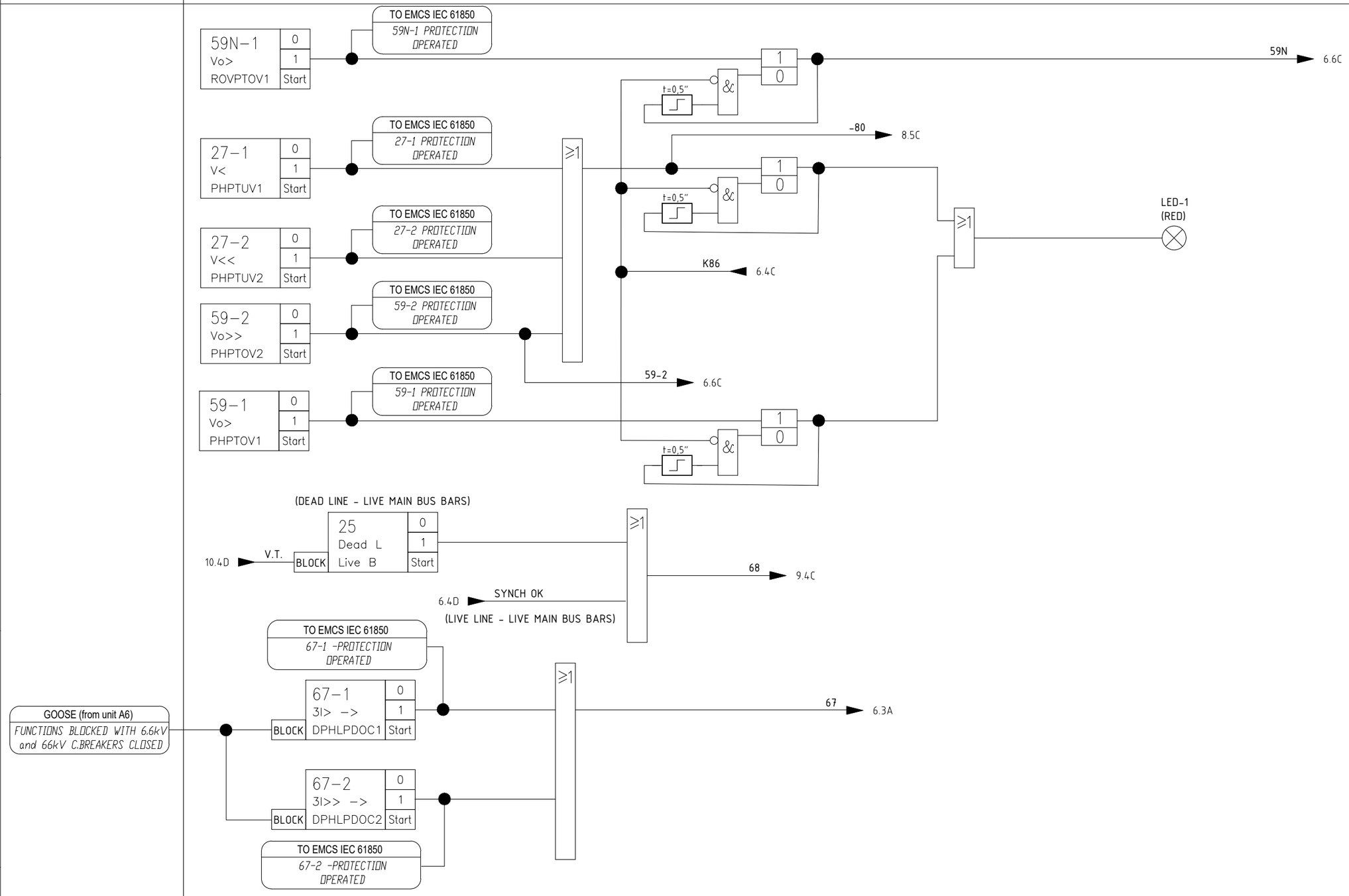
File Name : 1723002197-EL-DG-00028 Rev.03

1	2	3	4	5	6	7	8	9	10

INPUTS

PROTECTIONS REX640 (FP1)

OUTPUTS



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+A7					
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IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - LOGICAL TRANSF FEEDER TR-200ED1
Protections REX640

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00028

SHEET 7

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00028 Rev.03

INPUTS

REX640 CONTACTOR COMMANDS

OUTPUTS

S20 LOCAL OPENING COMMAND 0/1 — D-X1-2

K1 – BGT4 CONTACTOR SERVICE 0/1 — B-X1-3

K1 – BGT5 CONTACTOR TEST 0/1 — B-X1-5

XM REMOTE AVAILABLE 0/1 — D-X1-7

SA1 SELECTOR IN REMOTE POSITION 0/1 — B-X1-14

SA1 SELECTOR IN LOCAL POSITION 0/1 — B-X1-13

S1C LOCAL CLOSING COMMAND 0/1 — D-X1-1

KGR SPACE HEATER "ON" 0/1 — D-X1-6

LED-12 (RED)

IEC 61850 – EMCS OPENING 0/1

IEC 61850 – EMCS CLOSING 0/1

TEST → 8.5D

INSERT. → 9.3D

INSERT. → 9.4C

INSERT.

INSERT.

INSERT.

7.6A –80

REMOTE → 9.7B

LOCAL → 11.4B

TO EMCS IEC 61850 *SELECTOR IN REMOTE POSITION*

TO EMCS IEC 61850 *SELECTOR IN LOCAL POSITION*

LOCAL OPENING

REMOTE OPENING

6.9B PROTECTION

9.5A K86

UNDERVOLTAGE

6.6E ARC

OPENING → 9.4C

G_PODP1-X2 → K1 0/1 CONTACTOR OPENING

TO EMCS IEC 61850 *RESET LOCKOUT RELAY*

B_S04-X2 → FP1c 0/1 RESET LOCKOUT RELAY

REMOTE CLOSING

LOCAL CLOSING

9.6B READY

LOCAL CLOSING

8.3B TEST

TEST → 11.3C

TEST LOCAL CLOSING

G_POSP1-X1 → K1 0/1 CONTACTOR CLOSING

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DWG n° : 231151/SD/28

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IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG–100D1 – LOGICAL TRANSF FEEDER TR–200ED1

Contactor Commands

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

SCALE : NTS

A3

DRAWING NO. 1723002197–EL–DG–00028

SHEET 8

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197–EL–DG–00028 Rev.03

INPUTS

REX640 CONTACTOR COMMANDS

OUTPUTS

K86 RELAY TRIPPED 0/1 — B-X1-9

XM EXTERNAL CLOSING INTERLOCK 0/1 — B-X1-15

XM FROM L.V.SWDB C.B.OPENED 0/1 — B-X1-17

DO1 CONTACTOR READY (TCS) 0/1 — B-X1-10

BGF2 FUSE TRIPPED 0/1 — B-X1-11

BGE EARTHING SWITCH OPENED 0/1 — B-X1-6

BGE EARTHING SWITCH CLOSED 0/1 — B-X1-7

K1 CONTACTOR OPENED 0/1 — B-X1-2

QD2 – QD4 CLOSED AUXILIARY CIRCUIT MCB's 0/1 — C-X1-5

QV4 – QV5 CLOSED AUXILIARY V.T. SECONDARY MCB's 0/1 — C-X1-6

KSIL EMERGENCY OPENING BY SIS 0/1 — C-X1-1

K1 CONTACTOR CLOSED 0/1 — B-X1-1

K86 → 6.6D

K86 → 8.6B

K86 → 6.4C

TO EMCS IEC 61850: *K86 TRIPPED*

LED-2 (GREEN)

TO EMCS IEC 61850: *CONTACTOR READY (TCS)*

LED-11 (RED)

FUSE → 6.6D

E.S. OPEN → 11.4B

E.S. OPENED

E.S. CLOSED → 9.8C

7.5C → 68

8.5B → INSERT.

8.7B → OPENING

CONT.OPEN → 11.4B

CONTACTOR OPENED

TO EMCS IEC 61850: *MCB's CLOSED*

LED-11 (RED)

8.5A → INSERT.

TO EMCS IEC 61850: *CONTACTOR CLOSED AND INSERTED*

10.4D → V.T.

READY → 8.6C

LED-4 (GREEN)

8.4C → REMOTE

TO EMCS IEC 61850: *CONTACTOR READY TO CLOSE*

G_S02-X1 — **XM** 0/1 CONTACTOR READY TO CLOSE

9.3C → E.S. CLOSED — B_S02-X2 — **XM** 0/1 E.SWITCH CLOSED

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DWG n° : 231151/SD/28

Item n° : PF1113279

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE :

SG–100D1 – LOGICAL TRANSF FEEDER TR–200ED1

Contactor Commands

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

SCALE : NTS

A3

DRAWING NO. 1723002197–EL–DG–00028

SHEET 9

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197–EL–DG–00028 Rev.03

INPUTS

REX640 CONTACTOR COMMANDS

OUTPUTS

97T TRANSF.ALARM BUCHHOLZ	0 / 1	C-X1-7
K94B TRANSF.TRIPPED BUCHHOLZ	0 / 1	C-X1-9
26OT TRANSF.ALARM OIL TEMPERATURE	0 / 1	C-X1-10
K94OT TRANSF.TRIPPED OIL TEMPERATURE	0 / 1	C-X1-11
71OT TRANSF.ALARM OIL LEVEL	0 / 1	C-X1-13
71OT_1 TRANSF.OIL LEVEL VERY LOW ALARM	0 / 1	C-X1-14
K94P TRANSF.TRIPPED OIL PRESSURE	0 / 1	C-X1-15
49T TRANSF.ALARM WINDING TEMPERATURE	0 / 1	C-X1-17
K94WT TRANSF.TRIPPED WINDING TEMPERATURE	0 / 1	C-X2-1
XM TRANSFORMER GENERAL ALARM	0 / 1	D-X1-9
QV1/2/3-PTT-FF1/2/3 VT HEALTY CIRCUIT	0 / 1	C-X1-2
SA2 SELECTOR SWITCH OF OVERRIDE (SIL ENABLED)	0 / 1	D-X1-11

- C-X1-7 → TO EMCS IEC 61850 *ALARM BUCHHOLZ*
- C-X1-9 → TO EMCS IEC 61850 *TRIPPED BUCHHOLZ*
- C-X1-10 → TO EMCS IEC 61850 *ALARM OIL TEMPERATURE*
- C-X1-11 → TO EMCS IEC 61850 *TRIPPED OIL TEMPERATURE*
- C-X1-13 → TO EMCS IEC 61850 *ALARM OIL LEVEL*
- C-X1-14 → TO EMCS IEC 61850 *OIL LEVEL VERY LOW ALARM*
- C-X1-15 → TO EMCS IEC 61850 *TRIPPED OIL PRESSURE*
- C-X1-17 → TO EMCS IEC 61850 *ALARM WINDING TEMPERATURE*
- C-X2-1 → TO EMCS IEC 61850 *TRIPPED WINDING TEMPERATURE*
- D-X1-9 → TO EMCS IEC 61850 *TRANSFORMER GENERAL ALARM*
- C-X1-2 → V.T. → 7.2C; V.T. → 9.5D; TO EMCS IEC 61850 *VT HEALTY CIRCUIT*
- D-X1-11 → TO EMCS IEC 61850 *SELECTOR SWITCH OF OVERRIDE (SIL ENABLED)*

≥1 → LED-13 (RED) → TRIPPED TRASF. → 6.6D

WATCHDOG (0 / 1) → TO EMCS IEC 61850 *WATCHDOG PROTECTION RELAY* → G_RF-X1 → KIRF 0 WATCHDOG / 1

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2	28/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for construction (AFC)	
1	21/05/2024	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/28
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - LOGICAL TRANSF FEEDER TR-200ED1
Contactor Commands

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00028

SHEET 10

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00028 Rev.03

INPUTS

REX640 CONTACTOR COMMANDS

OUTPUTS

BGE
EART.SWITCH OPENED FROM MEASURING UNIT 0/1
C-X1-3

KT1
UNLOCKING E.SWITCH/CONT. TRUCK 0/1
B-X2-1

QB1
LOW VOLTAGE CIR.BREAK IN TEST POSITION 0/1
D-X1-3

QD1 – KIRF (UNIT A1)
MCB AND WATCHDOG PROTEC. RELAY HEALTHY 0/1
D-X1-10

9.3C CONT.OPEN
9.4B E.S. OPEN
8.4D LOCAL
8.6E TEST

≥1
&
&

TO EMCS IEC 61850
CONTACTOR OPENED OR ISOLATED

LED-8 (GREEN)
G_S03-X2
RLE2
0 CONTACTOR TRUCK UNLOCKED

LED-7 (GREEN)
G_S01-X1
RLE3
0 EARTHING SWITCH UNLOCKED

TO EMCS IEC 61850
PROTECTION RELAY UNIT 1 HEALTHY

GOOSE
LED-10 (RED)

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+A7						
DWG n° : 231151/SD/28	3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
Item n° : PF1113279	2	28/06/2024	Giulietti	Flamminio	Sigismondi	Accepted for construction (AFC)
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	REV.	DATE	DRN	CHKD	APPD	DESCRIPTION

IMESA ELECTRICAL ENGINEERING

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TITLE :
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Contactor Commands

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00028

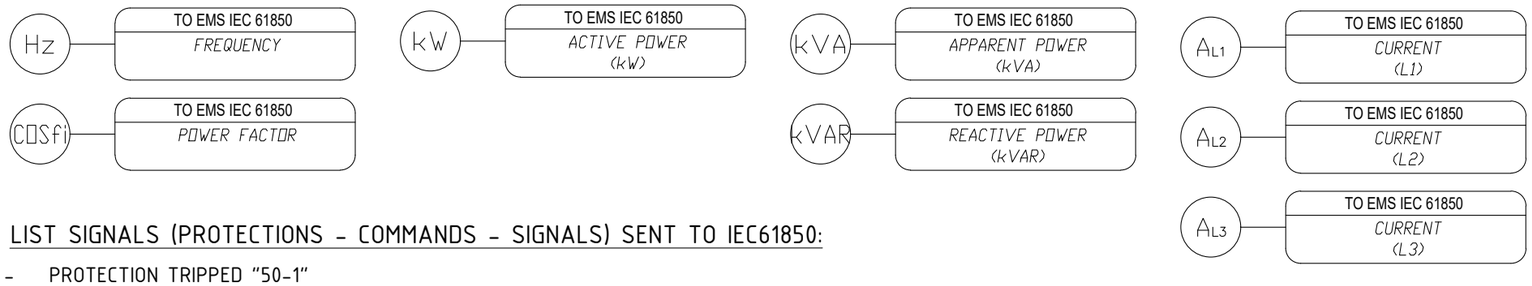
SHEET 1.1

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00028 Rev.03

INPUTS	REX640 SIGNALS MEASURES AND COMMAND AVAILABLE TO IEC61850	OUTPUTS



LIST SIGNALS (PROTECTIONS - COMMANDS - SIGNALS) SENT TO IEC61850:

- PROTECTION TRIPPED "50-1"
- PROTECTION TRIPPED "51-1"
- PROTECTION TRIPPED "51N"
- SYNCHRO "OK"
- PROTECTION TRIPPED "59N-1"
- PROTECTION TRIPPED "59N-2"
- PROTECTION TRIPPED "27-1"
- PROTECTION TRIPPED "27-2"
- PROTECTION TRIPPED "59-1"
- PROTECTION TRIPPED "59-2"
- PROTECTION TRIPPED "67-1"
- PROTECTION TRIPPED "67-2"
- SELECTOR SWITCH IN LOCAL POSITION
- SELECTOR SWITCH IN REMOTE POSITION
- TRANSFORMER PROTECTION TRIPPED "BUCHHOLZ"
- TRANSFORMER PROTECTION ALARM "BUCHHOLZ"
- TRANSFORMER PROTECTION TRIPPED "OIL TEMPERATURE"
- TRANSFORMER PROTECTION ALARM "OIL TEMPERATURE"
- TRANSFORMER PROTECTION ALARM "OIL LEVEL"
- TRANSFORMER PROTECTION TRIPPED "OIL PRESSURE"
- TRANSFORMER PROTECTION ALARM "OIL LEVEL VERY LOW"
- TRANSFORMER PROTECTION TRIPPED "WINDING TEMPERATURE"
- TRANSFORMER PROTECTION ALARM "WINDING TEMPERATURE"
- TRANSFORMER GENERAL ALARM
- WATCHDOG PROTECTION RELAY
- V.T. HEALTLY CIRCUIT
- INTERTRIP SEND TO L.V.SWITCHB.
- K86 TRIPPED
- CONTACTOR CLOSED AND INSERTED
- CONTACTOR OPENED OR ISOLATED
- MCB'S CLOSED
- CONTACTOR READY (TCS)
- CONTACTOR READY TO CLOSE
- OPENING COMMAND
- CLOSING COMMAND
- PROTECTION RELAY UNIT 1 HEALTHY
- SELECTOR SWITCH OF OVERRIDE (SIL ENABLED)

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+A7					
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As-Built (ASB)
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IMESA ELECTRICAL ENGINEERING

DWG n° : 231151/SD/28

Item n° : PF1113279

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 - LOGICAL TRANSF FEEDER TR-200ED1

Measures

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00028

SHEET 12

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00028 Rev.03