"SG-100D1" HV SWBD 6,6kV (UNIT A1)

LOGICAL DIAGRAM

ELECTROLYSER FEEDER A-20000

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+A1					
3	08/08/2024	Giulietti	Flamminio	Sigismondi	As Built (ASB)
2	28/06/2024	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/26

Item n° : PF1113279

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE :
SG-100D1 - LOGICAL ELECTROLYSER FEEDER A-20000

Cover

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00026

SHEET 1

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00026 Rev.03

INDEX

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

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IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

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SG-100D1 - LOGICAL ELECTROLYSER FEEDER A-20000

Sheets index

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

SCALE : NTS

A3

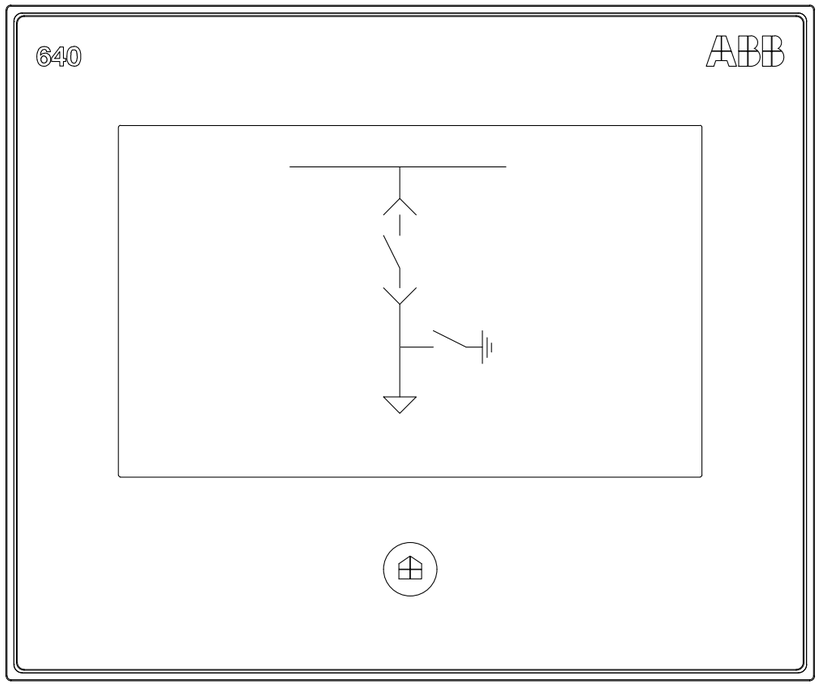
DRAWING NO. 1723002197-EL-DG-00026

SHEET 2

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00026 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 PAGE1				
Item	NAME PLATE	COLOUR		Note
		ALARM	OK	
LED-1	27-1/59-1 - VOLTAGE PROTECTION	RED	-	ALARM = OVER/UNDER VOLTAGE PROTECTION
LED-2	C.B. READY (TCS)	-	GREEN	OK = TCS OK (C.B. READY)
LED-3				
LED-4	C.B. READY TO CLOSE	-	GREEN	OK = C.B. READY TO CLOSE
LED-5	50-1/51-1 - TRIPPED	RED	-	ALARM = OVERCURRENT PROTECTION TRIPPED
LED-6	51N/59N - TRIPPED	RED	-	ALARM = EARTH PROTECTION TRIPPED
LED-7	EARTHING SWITCH UNLOCKED	-	GREEN	OK = EARTHING SWITCH UNLOCKED
LED-8	RACK-IN/OUT ENABLED	-	GREEN	OK = C.B. TRUCK UNLOCKED
LED-9	ARC PROTECTION TRIPPED	RED	-	ALARM = TRIP ARC PROTECTION
LED-10	GOOSE ALARM	RED	-	ALARM = GOOSE FAULT
LED-11	SPRING DISCHARGED	RED	-	ALARM = C.B. SPRING DISCHARGED

LEDs PAGE2				
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	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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IMESA ELECTRICAL ENGINEERING

DWG n° : 231151/SD/26

Item n° : PF1113279

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - LOGICAL ELECTROLYSER FEEDER A-20000
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-00026

SHEET 3

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00026 Rev.03

INPUTS

B–X1		
1	BI1	C.B. CLOSED
4		
2	BI2	C.B. OPENED
4		
3	BI3	C.B. SERVICE POSITION
4		
5	BI4	C.B. TEST POSITION
8		
6	BI5	EARTH SWITCH OPENED
8		
7	BI6	EARTH SWITCH CLOSED
8		
9	BI7	RELAY TRIPPED
12		
10	BI8	C.B. SPRING DISCHARGED
12		
11	BI9	
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 C.B.
2		

INPUTS

C–X1		
1	BI1	
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	AVAILABLE
8		
9	BI7	
12		
10	BI8	TRANSF.ALARM OIL TEMPERATURE
12		
11	BI9	TRANSF.TRIP OIL TEMPERATURE
12		
13	BI10	AVAILABLE
16		
14	BI11	TRANSF.ALARM OIL PRESSURE
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 (AVAILABLE FROM L.V. SWITCHBOARD)
4		
5	BI4	CIRC.BREAKER TRIPPED (AVAILABLE FROM L.V. SWITCHBOARD)
8		
6	BI5	SPACE HEATER "ON"
8		
7	BI6	AVAILABLE REMOTE OPENING COMMNAD
8		
9	BI7	AVAILABLE REMOTE OPENING COMMNAD
12		
10	BI8	MCB AND WATCHDOG PROTECTION. RELAY HEALTH (FROM UNIT A7)
12		
11	BI9	
12		

ARC MODULE

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

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CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231151/SD/26

Item n° : PF1113279

TITLE :

SG–100D1 – LOGICAL ELECTROLYSER FEEDER A–20000

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–00026

SHEET 4

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197–EL–DG–00026 Rev.03

OUTPUT

B–X2

3 4	S01	TRIPPED PRTOECTION	
5 6	S02	EARTHING SWITCH CLOSED TO TERMINAL STRIP	
7 8	S03	AVAILABLE OUT TO TERMINAL	
9 10	S04	RESET LOCKOUT RELAY	
11 12	S05		
13 14	S06		
15 16	S07		
17 18	S08		

OUTPUT

C–X2

3 4	S01	
5 6	S02	
7 8	S03	
9 10	S04	
11 12	S05	
13 14	S06	
15 16	S07	
17 18	S08	

OUTPUT

D–X2

3(–)	SP01	TRIPPED ARC CABLE COMPARTEMENT
4(+)		
5(–)	SP02	
6(+)		
7(–)	SP03	TRIPPED ARC CABLE COMPARTEMENT
8(+)		
9(–)	SP04	
10(+)		
11(–)	SP05 (I)	
12(+)		
13(–)	SP06 TCS	
14(+)		
15(–)	SP07 (I)	
16(+)		
17(–)	SP08 TCS	
18(+)		

OUTPUT

G–X1

1 2		Uaux
3 5 4	RF	WATCHDOG
6 8 7	S01	E.SWITCH UNLOCKED
9 10	S02	C.B. READY TO CLOSE
11	SS01	
12		
13	SS02	
14		
15 16	POSP1	C.B. CLOSING COMMAND
17 18	POSP2	

OUTPUT

G–X2

1 3 2	S03	C.B. TRUCK UNLOCKED
4 (I) 6	PODP1	
5 7 8	P01_TCS TCS	C.B. OPENING COMMAND
9 (I) 11	PODP2	
10 12 13	P02_TCS TCS	
14 (I) 16	PODP3	
15 17 18	P03_TCS TCS	

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=

+A1

DWG n° : 231151/SD/26

Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG–100D1 – LOGICAL ELECTROLYSER FEEDER A–20000

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–00026

SHEET 5

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197–EL–DG–00026 Rev.03

INPUTS

PROTECTIONS REX640 (FP1)

OUTPUTS

TO EMCS IEC 61850
50-PROTECTION OPERATED

50-1 / 3I>>> / PHIPTOC1 — 0 / 1 / Start

51-1 / 3I> / PHLPTOC1 — 0 / 1 / Start

TO EMCS IEC 61850
51-PROTECTION OPERATED

TO EMCS IEC 61850
51N-PROTECTION OPERATED

51N / Io> / EFLPTOC1 — 0 / 1 / Start

59N / Vo> / ROVPTOV1 — 0 / 1 / Start

TO EMCS IEC 61850
59N-PROTECTION OPERATED

LED-15 (RED)

AVAILABLE TRIP PROTECTION FROM LOW VOLTAGE — 0 / 1

D-X1-5

>1

t=0,5"

&

1 / 0

LED-5 (RED)

LED-6 (RED)

RESET

K86 ◀ 9.5A

≥1

PROTECTION ▶ 8.6B

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

B_X2-S01

K86 — 0 TRIPPED PROTECTION / 1

FP1e "MB01" — 0 TRIPPED ARC CABLE COMPART. / 1

D_SP01-X2

FP1e "K86" — 0 TRIPPED ARC CABLE COMPART. / 1

D_SP03-X2

10.8B ▶ TRIPPED TRASF.

ONLY "LIGHT"
50L/50NL / ARC / ARCSARC1 — 0 / 1 / Start
ARC "MAIN BUS BAR" "BB"

ONLY "LIGHT"
50L/50NL / ARC / ARCSARC2 — 0 / 1 / Start
ARC "C.B. COMPART." "CB"

ONLY "LIGHT"
50L/50NL / ARC / ARCSARC3 — 0 / 1 / Start
ARC "CABLE COMPARTEMENT" "CC" -ARC CC ▶ 6.7D

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)

6.4E ▶ -ARC CC

9.5A ▶ K86

LED-9 (RED)

ARC ▶ 8.6B

GOOSE TO INCOMINGS:
UNIT :A6

0 / 1 — TRIPPED ARC PROTECTION

=						
+A1						
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IMESA ELECTRICAL ENGINEERING

DWG n° : 231151/SD/26

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CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - LOGICAL ELECTROLYSER FEEDER A-20000

Protections REX640

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00026

SHEET 6

REV. 03

F.to UNI A3: 420mmx297mm

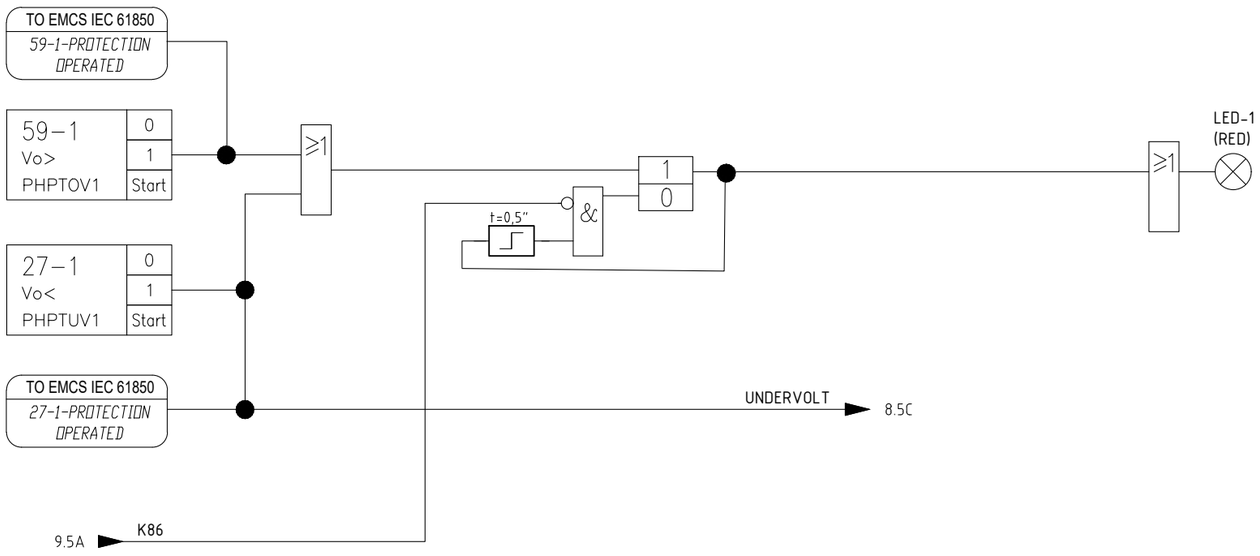
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1	2	3	4	5	6	7	8	9	10

INPUTS

PROTECTIONS REX640 (FP1)

OUTPUTS



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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Protections REX640

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00026

SHEET 7

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00026 Rev.03

INPUTS

REX640 C.B. COMMANDS

OUTPUTS

S20 LOCAL OPENING COMMAND 0/1

K1 – BGT4 C.B. SERVICE 0/1

K1 – BGT5 C.B. TEST 0/1

XM REMOTE AVAILABLE OPENING COMMAND 0/1

XM REMOTE AVAILABLE OPENING COMMAND 0/1

SA1 SELECTOR IN REMOTE POSITION 0/1

SA1 SELECTOR IN LOCAL POSITION 0/1

S1C LOCAL CLOSING COMMAND 0/1

KGR SPACE HEATER "ON" 0/1

D-X1-2

B-X1-3

B-X1-5

D-X1-7

D-X1-9

B-X1-14

B-X1-13

D-X1-1

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

INSERTED

INSERTED

UNDERVOLT ← 7.5B

REMOTE

REMOTE → 9.7B

TO EMCS IEC 61850 *SELECTOR IN REMOTE POSITION*

LOCAL → 11.4B

LOCAL

TO EMCS IEC 61850 *SELECTOR IN LOCAL POSITION*

LOCAL OPENING

REMOTE OPENING

6.9B PROTECTION

9.5A K86

6.6E ARC

UNDERVOLTAGE

OPENING → 9.4C

REMOTE CLOSING

LOCAL CLOSING

9.6B READY

LOCAL CLOSING

8.3B TEST

TEST LOCAL CLOSING

TEST → 11.3C

G_PODP1-X2 → K1 0/1 C.B. OPENING

TO EMCS IEC 61850 *RESET LOCKOUT RELAY* → B_S04-X2 → FP1c 0/1 RESET LOCKOUT RELAY

G_POSP1-X1 → K1 0/1 C.B. CLOSING

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+A1

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IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG–100D1 – LOGICAL ELECTROLYSER FEEDER A–20000

C.B. Commands

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

SCALE : NTS

A3

DRAWING NO. 1723002197–EL–DG–00026

SHEET 8

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197–EL–DG–00026 Rev.03

INPUTS

REX640 C.B. COMMANDS

OUTPUTS

K86 RELAY TRIPPED 0/1

XM EXTERNAL CLOSING INTERLOCK 0/1

XM FROM L.V.SWBD C.B. OPENED 0/1

QM "BGS2" C.B. DISCHARGED 0/1

BGE EARTHING SWITCH OPENED 0/1

BGE EARTHING SWITCH CLOSED 0/1

QM C.B. OPENED 0/1

QD2 – QD3 – QD4 CLOSED AUXILIARY CIRCUIT MCB's 0/1

QV4 – QV5 CLOSED AUXILIARY V.T. SECONDARY MCB's 0/1

QM C.B. CLOSED 0/1

B-X1-9

B-X1-15

B-X1-17

B-X1-10

B-X1-6

B-X1-7

B-X1-2

C-X1-5

C-X1-6

B-X1-1

TO EMCS IEC 61850 *K86 TRIPPED*

K86 → 6.7D

K86 → 8.6B

K86 → 6.4C

K86 → 7.2C

LED-11 (RED)

t=12"

LED-4 (GREEN)

READY → 8.6C

8.4C REMOTE

TO EMCS IEC 61850 *C.B. TO CLOSE*

G_S02-X1

XM 0/1 C.B. READY TO CLOSE

E.S. OPEN → 11.4B

E.S. OPENED

E.S. CLOSED → 9.8C

10.9C TCS

8.5B INSERT.

8.7B OPENING

C.B. OPEN → 11.4B

C.B. OPENED

TO EMCS IEC 61850 *MCB's CLOSED*

10.4C V.T.

8.5A INSERT.

TO EMCS IEC 61850 *C.B CLOSED AND INSERTED*

9.3C E.S. CLOSED

B_S02-X2

XM 0/1 E.SWITCH CLOSED

=

+A1

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IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 – LOGICAL ELECTROLYSER FEEDER A-20000
C.B. Commands

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00026

SHEET 9

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00026 Rev.03

1	2	3	4	5	6	7	8	9	10

INPUTS

REX640 CONTACTOR COMMANDS

OUTPUTS

26OT	TRANSF.ALARM OIL TEMPERATURE
K94OT	TRANSF.TRIPPED OIL TEMPERATURE
63T	TRANSF.ALARM OIL PRESSURE
K94P	TRANSF.TRIPPED OIL PRESSURE
26WT	TRANSF.ALARM WINDING TEMPERATURE
K94WT	TRANSF.TRIPPED WINDING TEMPERATURE
QV1/2/3-PTT-FF1/2/3	VT HEALTY CIRCUIT
T.C.S. TCS1 TCSSCBR	ALARM
WATCHDOG	

C-X1-10 → TO EMCS IEC 61850 *ALARM OIL TEMPERATURE*

C-X1-11 → TO EMCS IEC 61850 *TRIPPED OIL TEMPERATURE*

C-X1-14 → TO EMCS IEC 61850 *ALARM OIL PRESSURE*

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*

C-X1-2 → TO EMCS IEC 61850 *VT HEALTY CIRCUIT*

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

V.T. → 9.5D

TO EMCS IEC 61850 *TSC MB01 COIL SUPERVISION* → NOT → TCS → 9.4C; LED-2 (GREEN)

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

=							
+A1							
	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)
	REV.	DATE	DRN	CHKD	APPD	DESCRIPTION

DWG n° : 231151/SD/26

Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :

SG-100D1 – LOGICAL ELECTROLYSER FEEDER A-20000

C.B. Commands

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00026

SHEET 10

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00026 Rev.03

INPUTS

REX640 CONTACTOR COMMANDS

OUTPUTS

BGE
EART.SWITCH OPENED FROM MEASURING UNIT 0 1

C-X1-3

KT1
UNLOCKING E.SWITCH/C.B. TRUCK 0 1

B-X2-1

QB1
LOW VOLTAGE CIR.BREAK IN TEST POS. (AVAILAB.) 0 1

D-X1-3

QD1 – KIRF (UNIT A7)
MCB AND WATCHDOG PROTEC. RELAY HEALTHY 0 1

D-X1-10

≥1

&

&

9.3C C.B. OPEN

9.4B E.S. OPEN

8.4D LOCAL

8.6E TEST

TO EMCS IEC 61850
C.B OPENED OR ISOLATED

LED-8
(GREEN)

G_S03-X2

RLE2
0 C.B. TRUCK UNLOCKED
1

LED-7
(GREEN)

G_S01-X1

RLE3
0 EARTHING SWITCH UNLOCKED
1

GOOSE

LED-10
(RED)

TO EMCS IEC 61850
PROTECTION RELAY UNIT 7 HEALTHY

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+A1					
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DWG n° : 231151/SD/26
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 – LOGICAL ELECTROLYSER FEEDER A-20000
C.B. Commands

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00026

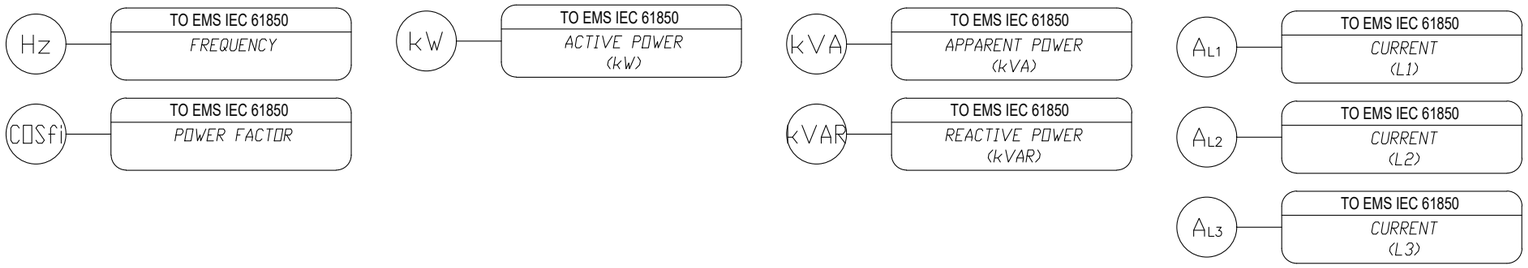
SHEET 1.1

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00026 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"
- PROTECTION TRIPPED "59N"
- PROTECTION TRIPPED "27-1"
- PROTECTION TRIPPED "59-1"
- SELECTOR SWITCH IN LOCAL POSITION
- SELECTOR SWITCH IN REMOTE POSITION
- TRANSFORMER PROTECTION TRIPPED "OIL TEMPERATURE"
- TRANSFORMER PROTECTION ALARM "OIL TEMPERATURE"
- TRANSFORMER PROTECTION TRIPPED "OIL PRESSURE"
- TRANSFORMER PROTECTION ALARM "OIL PRESSURE"
- TRANSFORMER PROTECTION TRIPPED "WINDING TEMPERATURE"
- TRANSFORMER PROTECTION ALARM "WINDING TEMPERATURE"
- WATCHDOG PROTECTION RELAY
- V.T. HEALTLY CIRCUIT
- INTERTRIP SEND TO L.V.SWITCHB.
- K86 TRIPPED
- C.B. CLOSED AND INSERTED
- C.B. OPENED OR ISOLATED
- MCB'S CLOSED
- C.B. READY (TCS)
- C.B. READY TO CLOSE
- OPENING COMMAND
- CLOSING COMMAND
- PROTECTION RELAY UNIT 7 HEALTHY

=							
+A1							
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DWG n° : 231151/SD/26
Item n° : PF1113279

CROSSWIND

ROSETTI MARINO

TITLE :
SG-100D1 - LOGICAL ELECTROLYSER FEEDER A-20000
Measures

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00026

SHEET 12

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00026 Rev.03