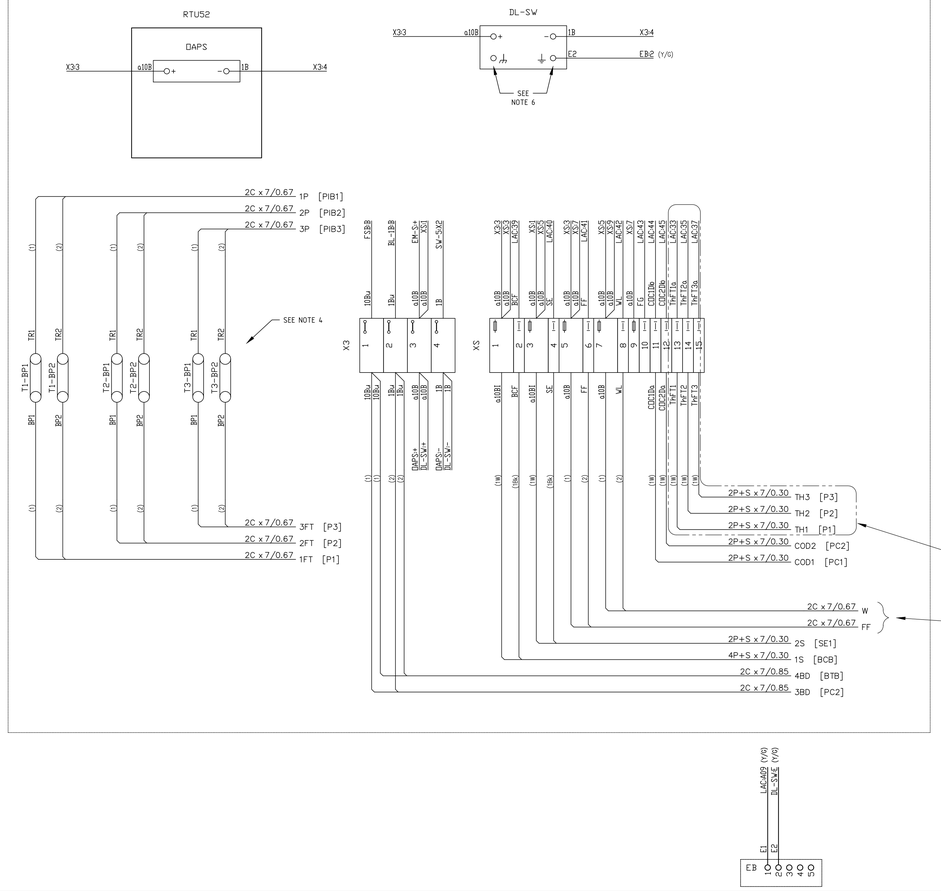
DISTRIBUTION LOCAL AUTOMATION CONTROL PANEL

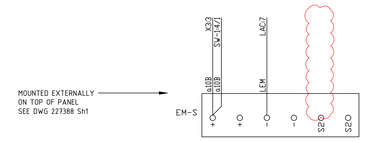
DLAC

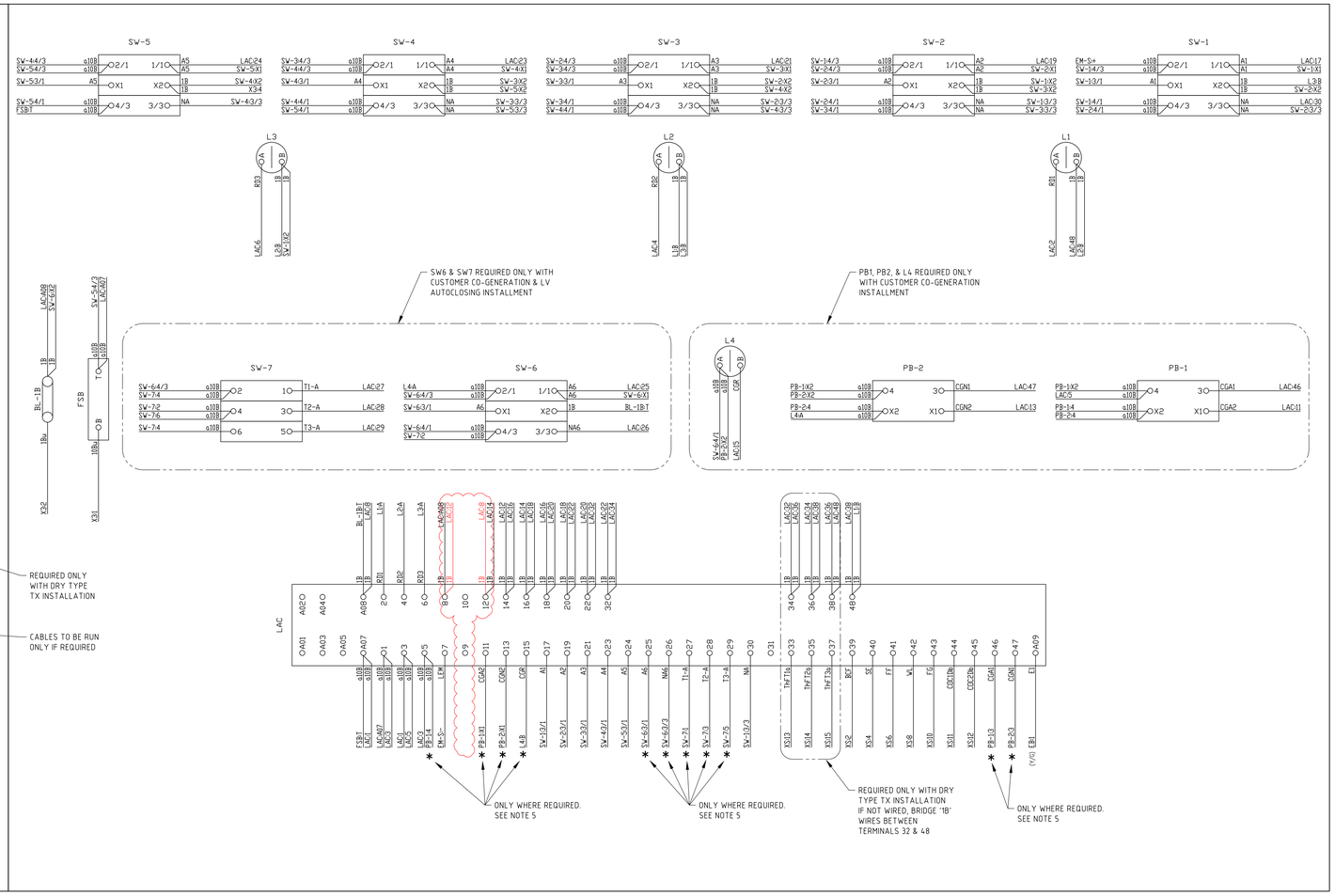
PANEL - FRONT VIEW

HINGED SECTION - REAR VIEW

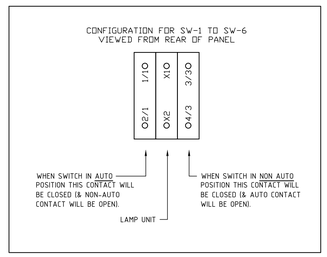
MOUNTING PLATE FRONT VIEW







CONFIGURATION FOR SW-1 TO SW-6 VIEWED FROM REAR OF PANEL



SEE NOTE 5 FOR ITEMS POSSIBLY NOT REQUIRED.

TAGNAME	MFG	CATNO	DESC	REF_DWG
ENCLOSURE	RITTAL	2252.605	WALL MOUNTED ENCLOSURE EL	-
BL	EUGASQUIP	MOULDED TYPE M5	BATTERY LINK	507111
DL-SW	RUGGEDCOM	RS8000	ETHERNET SWITCH	-
EM-S	ASSERTA	AS/M/S/9-60/G	ELECTRONIC SOUNDER, GREY, 9 - 60VDC	-
FSB	ALSTOM	RS220P Black	FUSE - 2 STUD BACK CONNECTED	-
LAC	SCHWEITZER	SEL-3530	AUTOMATION CONTROL RELAY	222615
L1 TO L3	RAFI	160.502.002/1502	LAMP HOLDER WITH GREEN LENS	-
	MARL	211-997-48-38	WHITE 60V DC EDISON SCREW MULTI-LEDS	-
L4	RAFI	160.502.002/1002	LAMP HOLDER WITH WHITE LENS	-
	MARL	211-997-48-38	WHITE 60V DC EDISON SCREW MULTI-LEDS	-
PB-1 & PB-2	SCHNEIDER ELECT.	ZB4BW31	FLUSH OPERATOR (METAL, WHITE) - PUSH BUTTON	-
	SCHNEIDER ELECT.	ZB4BW061	CONTACT BLOCK (N.O)	-
	MARL	ADP-215-997-48-38-60V	FILAMENT REPLACEMENT WHITE LED - 60V	-
RTU52	INVENSYS	-	2 SLOT CARD FILE RTU52 ASSEMBLY (INCLUDING POWER CARD & AVARA OAP-SE CARD)	-
SW-1 TO SW-6	SCHNEIDER ELECT.	HARMONY XB4	2 POSITION SELECTION SWITCH ILLUMINATED (WHITE)	-
SW-7	KRAUS & NAIMER	CA10 TYPE, SO, A730	3 POSITION SELECTION SWITCH	-
TH-BP1, TH-BP2	UTILUX	3869	ISOLATING LINK RAIL MOUNTED	118547
X1, X3	UTILUX	3820	RAIL MOUNTED TERMINAL	118547
XS	WEIDMULLER	ASK1	RAIL MOUNTED FUSE CAT No. 37676	-
XS	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.41226	-

LEGEND

HARMONY XB4 CONFIGURATION			
TAGNAME	PART	PART No.	No. OFF
SW-1 TO SW-6	COLLAR	ZB4BZ009	6
	LIGHT BLOCK	ZBVBG19	6
	N/O CONTACTS	ZBE101	6
	N/C CONTACTS	ZBE102	6
	HEAD	ZB4BK1213	6

BTB	48V DC 'B' BATTERY TERMINATION BOX
DLAC	DISTRIBUTION LOCAL AUTOMATION CONTROL PANEL
P1	FIRST TRANSFORMER PROTECTION PANEL
P2	SECOND TRANSFORMER PROTECTION PANEL
P3	THIRD TRANSFORMER PROTECTION PANEL
PC2	CUSTOMER OVERCURRENT No.2 PROTECTION PANEL
PIB1	FIRST FEEDER PILOT ISOLATION BOX
PIB2	SECOND FEEDER PILOT ISOLATION BOX
PIB3	THIRD FEEDER PILOT ISOLATION BOX
SMB	SIGNAL MARSHALLING BOX

PANEL ABBREVIATION TABLE

NOTES:

1. ALL PANEL WIRING IS TO BE AS LISTED HERE:
   - DC WIRING IS TO BE 7/0.50, 0.6kV GRADE PVC INSULATED COLOURED GREY.
   - EARTH WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED GREEN/YELLOW (Y/G).
2. ALL WIRING TO HAVE IDENTIFICATION FERRULES FITTED AT BOTH ENDS OF WIRE ADJACENT TO TERMINALS WHERE POSSIBLE. WIRE IDENTIFICATION CODES TO BE IN ACCORDANCE WITH THIS DRAWING.
3. PANEL LAYOUT IS REPRESENTATIVE, FOR ACTUAL LAYOUT SEE DWG 227388 Sh1.
4. TRIPPING TERMINALS TO BE SUITABLY INSULATED WITH TERMINAL COVER H3822 TO PREVENT ANY ACCIDENTAL SHORTING OF THESE TRIP TERMINALS.
5. SW6 & SW7 REQUIRED ONLY WITH LV AUTOCLOSING.
   PB1, PB2, & L4 REQUIRED ONLY WITH CUSTOMER CO-GENERATION INSTALMENT.
6. SUBSTATION EARTH ONLY TO BE TERMINATED TO CASE EARTH OF THIS RELAY. THE BRAIDED EARTH CONNECTION BETWEEN THESE TERMINALS MUST BE REMOVED.

REFERENCE DRAWINGS	
TITLE	DWG No.
EPOXY RESIN ENCASED PROTECTION CURRENT TRANSFORMER OUTLINE AND DETAILS	125190
RMICB SUBSTATIONS WITH E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION FIBRE LOOPING AND GENERAL MOUNTING DETAILS	227350 Sh5
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD CUSTOMER ACB INTERNAL WIRING AND ACB PANEL CONTROL WIRING SCHEMATIC	227390 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD TRANSFORMER ACB INTERNAL WIRING AND ACB PANEL CONTROL WIRING SCHEMATIC	227390 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OAFD, & CUSTOMER OC No1 PROTECTION, DISTRIBUTION AUTOMATION CONTROL PANEL WIRING & CABLING DIAGRAM	227389 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OAFD, & CUSTOMER OC No1 & No2 PROTECTION, DISTRIBUTION AUTOMATION CONTROL PANEL WIRING & CABLING	227389 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD DISTRIBUTION LOCAL AUTOMATION CONTROL PANEL LAYOUT AND LABEL DETAILS	227388 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD 1500kVA TX'S AND VENTILATION FAN AC SERVICE BOARD LAYOUT, WIRING, & CONNECTIONS	227387 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227386 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227386 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD CUSTOMER OC No.1 & No.2) PROTECTION PANEL WIRING AND CABLE CONNECTIONS	227385 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OIL TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL CABLE CONNECTION DIAGRAM	227384 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, DRY TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL CABLE CONNECTION DIAGRAM	227384 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OIL TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL WIRING DIAGRAM	227383 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, DRY TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL WIRING DIAGRAM	227383 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD & OAFD, TRANSFORMERS AND CUSTOMER OVERCURRENT PROTECTION FREE STANDING PANELS LABEL DETAILS	227382 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH OPTICAL ARC FLASH DETECTION (E TYPE LV) TRANSFORMERS AND CUSTOMER OVERCURRENT FREE STANDING PANELS LAYOUT DETAILS	227381 Sh1
CITY DISTRIBUTION SUB WITH E TYPE LV BOARD AND OAFD, DLAC PANEL SCHEMATIC, GENERAL DC SUPPLIES INTER-PANEL WIRING, FIBRE COMMS & CABLING DIAGRAM	227380 Sh4
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CUSTOMER OVERCURRENT DC SCHEMATIC	227380 Sh3
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, & OPTICAL ARC FLASH DETECTION TRANSFORMER DC SCHEMATIC	227380 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION AC SCHEMATIC	227380 Sh1

FOR ARRANGEMENT WITHOUT CUSTOMER OC No2 SEE 227389 Sh2

CAD DRAWING DO NOT AMEND MANUALLY

AMENDMENTS

1. REF BTs & BSs 'LACTP' WAS 'LACAS', 'LACTT' WAS 'LAC3T'. 'SW-1' TO 'SW-6' WAS 'SW1' TO 'SW6'. REF PB-2 & 'SL' & 'FG' CABLES REMOVED 'CGD1' & 'CGD2' CABLES ADDED. REF PB-1 & PB-2 'CGA1' & 'CGA2' WIRE REMOVED. REF B1, 'B1B' WIRE REMOVED. REF B2, 'B2B' WIRE REMOVED. REF EB, '240B' WIRE ADDED REF EB, '241B' WIRE WAS 'LAC7' REF EB1, '47' WIRE WAS 'LOCTD' '42' WIRE WAS 'COC2D' REF EB1, 'CGD1' WIRE WAS 'CGA1' REF EB1, 'CGD2' WIRE WAS 'CGA2' 'COC1D' WIRE WAS 'A2' — E.KAIROUZ, CHECKED: M.BENNETT, APPROVED: PN — 30-01-2017
2. REF EB-E9, G12 ,J5-E5, A-L15 TX's CHANGED FROM HARMONY TYPE TX's TO PROTECTION WIRING ALTERED TO SUIT LEGEND ALTERED TO SUIT — E.KAIROUZ, CHECKED: M.BENNETT, APPROVED: PN — 23-08-2017, OPEX-4933-1
3. REF REVISION CLOUDS ADDED AROUND REVISED ITEMS. REF BLOCK COLOR PRINTED SCHEMATIC REDRAWN FOR CLARITY TO SHOW THE CHANGES MADE TO WIRING & AMENDED CONNECTIONS TO SOUNDER UNIT AS SHOWN FROM FIELD MARK UP — L.MARTINUZZI, CHECKED: M.BENNETT, APPROVED: — 14-05-2019
4. REF REVISION CLOUDS ADDED AROUND REVISED ITEMS. REF BLOCK COLOR PRINTED SCHEMATIC TYPES & QUANTITY ASSOCIATED WITH SW-1 TO SW-7 & SW-4 TO SW-6 & SW-8 IN HARMONY XB4. — E.KAIROUZ, CHECKED: M.BENNETT, APPROVED: — 30-10-2019
5. REF REVISION CLOUDS ADDED AROUND REVISED ITEMS. REF CONFIGURATION TABLE AMENDED SW-1 TO SW-6 & SW-8 TO SW-9. SW-1 TO SW-6 & SW-8 TO SW-9 WIRING & LAYOUT TO AS BUILT. AMENDED SW-1, SW-2, SW-3, SW-4, SW-5 & SW-6 INTERNAL WIRING IN WIRING AMENDED EARTH CONNECTION TO DL-SW RELAY & SWITCH. REF — L.MARTINUZZI, CHECKED: M.BENNETT, APPROVED: — 14-05-2019
6. REF REVISION CLOUDS ADDED AROUND REVISED ITEMS. REF COLOUR PRINTED DELETED WIRING TO DLAC & ELECTRONIC SOUNDER AS SHOWN — L.MARTINUZZI, CHECKED: M.BENNETT, APPROVED: — 03-10-2020

Ausgrid
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ISSUED FOR CONSTRUCTION

SCALE	NTS
DESIGNED	-
DRAWN	E.KAIROUZ/L.MARTINUZZI
CHECKED	L.MARTINUZZI
APPROVED	M.BENNETT
DATE	03/03/2015
TRIM REF	-
PROJECT NUMBER	-

CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OAFD, & CUSTOMER OC No1 & No2 PROTECTION DISTRIBUTION AUTOMATION CONTROL PANEL WIRING AND CABLING DIAGRAM

DRAWING No 227389 | SHEET 1 | AMD 5 | SIZE A0

C&P - DISTRIBUTION SUBS

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