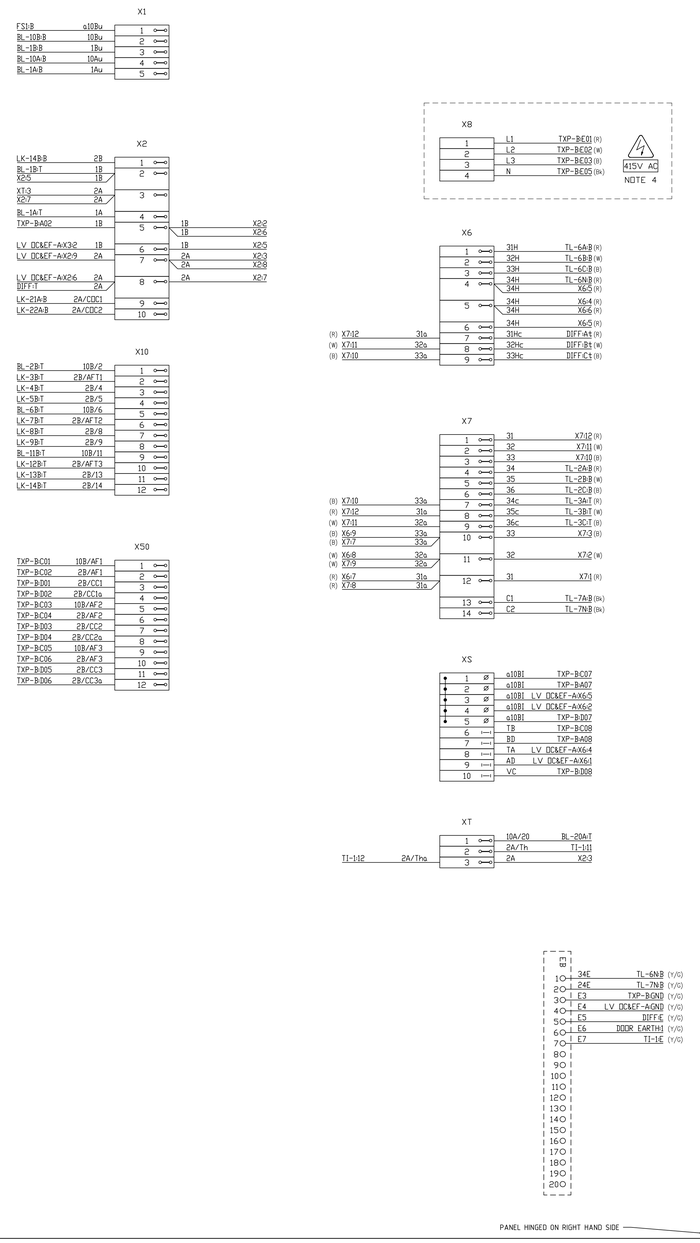
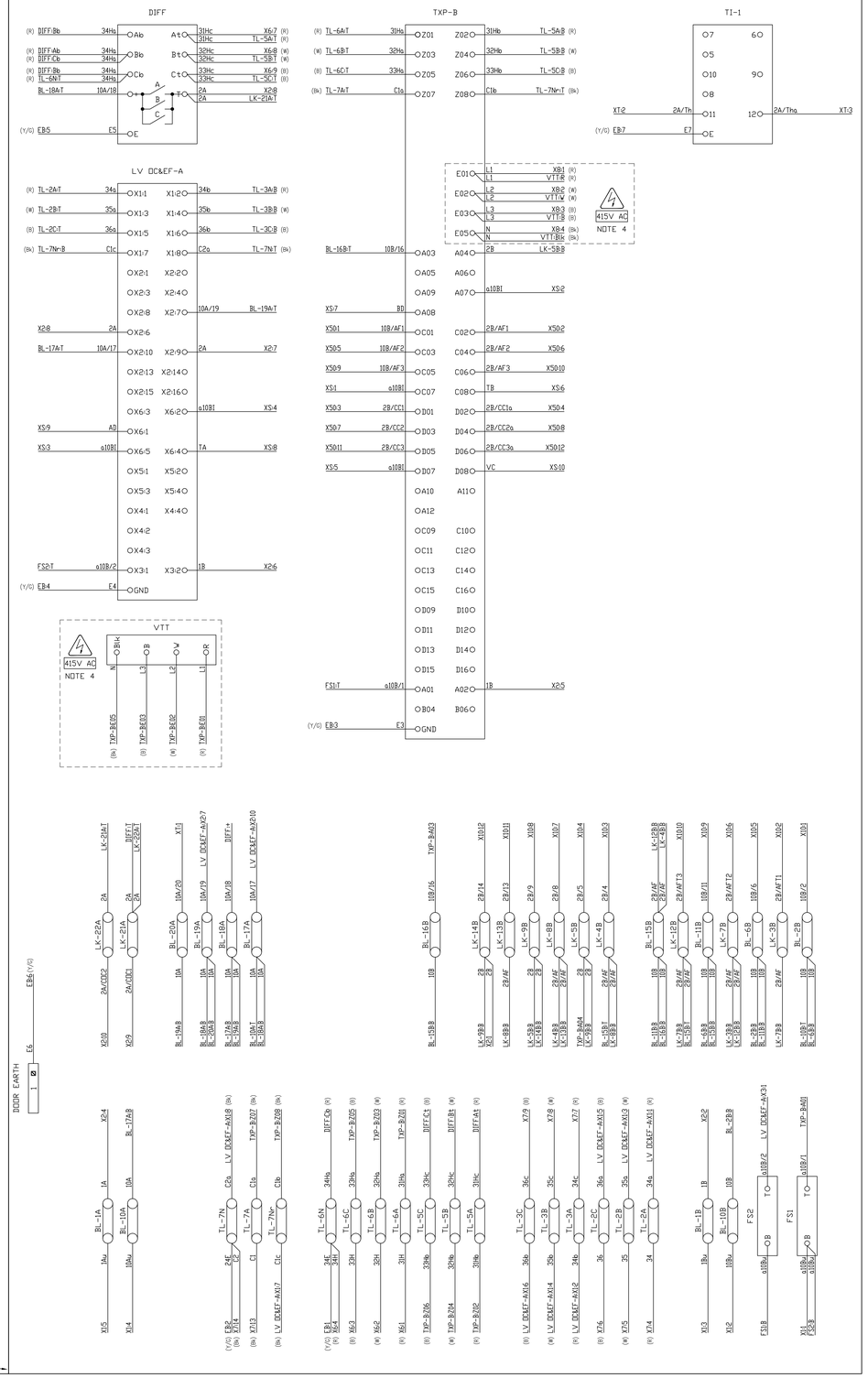


PANEL TERMINAL RAIL LAYOUT FRONT VIEW



PANEL DOOR REAR VIEW

NOTES:

1. LINKS SHOULD BE MOUNTED SO THAT THE MOVEABLE LINK FALLS OPEN WHEN RELEASED.
2. NUMBERING ON BATTERY AND TEST LINKS REFERS TO LINK IDENTIFICATION AS SHOWN ON THE ASSOCIATED AC & DC PROTECTION SCHEMATICS, SEE DRAWING REFERENCE TABLE.
3. 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).
   - A PHASE CT AND AC WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED RED (R).
   - B PHASE CT AND AC WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED WHITE (W).
   - C PHASE CT AND AC WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED BLUE (B).
   - EARTH CT AND NEUTRAL AC WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED BLACK (Bk).
4. TERMINALS, INSULATED TEST PANEL SOCKETS AND RELAY CONNECTIONS ARE TO BE FITTED WITH CAUTION LABELS TO WARN OF THE 415V/240 AC HAZARD. ANY EXPOSED TERMINALS ARE TO BE APPROPRIATELY COVERED.
5. 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.
6. TEST LINKS (TL) TO BE WIRED N–C–B–A LEFT TO RIGHT WHEN VIEWED FROM THE REAR OF THE PANEL.
7. THE WIRING SHOWN IS BASED ON THE RELAYS LISTED IN THE LEGEND.
8. PANEL DOOR LAYOUT IS REPRESENTATIVE, FOR ACTUAL DOOR LAYOUT SEE DWG 227352–1.

TAGNAME	MFG	CATNO	DESC	REF_DWG
BL, LK, TL	EUGAGUIP	MOULDED TYPE M5	BATTERY/TEST LINK	5071111
DIFF	-	K3M	DIFFERENTIAL FUSE RELAY	113243
EB	-	-	EARTH BAR	-
FS1, FS2	ALSTOM	RS20P Black	FUSE – 2 STUD BACK CONNECTED	-
LV DC&EF-A	SIEMENS	7SR4504-2HB20-1AA0	OVERCURRENT & EARTH FAULT RELAY	-
TXP-B	SCHWEITZER	SEL-751A	TRANSFORMER PROTECTION RELAY	222614
TI-1	RMS	3A32K37	TRIP INDICATOR TI-3 (0.2 ohm)	123399
VTT	MULTI CONNECT (RS COMPONENTS)	SL84-G	INSULATED TEST PANEL SOCKETS 1 x RED 23.3020.22 (404–244) 1 x WHITE 23.3020.29 (404–250) 1 x BLUE 23.3020.23 (404–216) 1 x BLACK 23.3020.21 (404–200)	231226
X1, X2, X10	UTILUX	3820	RAIL MOUNTED TERMINAL	118547
X6, X7	UTILUX	3820	RAIL MOUNTED TERMINAL	118547
6 X8	PHOENIX	UT 10 DG 3046281	FEED–THROUGH TERMINAL BLOCK	-
X50, XT	UTILUX	3820	RAIL MOUNTED TERMINAL	118547
X5	WEIDMULLER	SAK 2.5	RAIL MOUNTED TERMINAL CAT No. 27966	-
XS	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.41226	-
LEGEND				

TITLE	DWG No.
RMICB SUBSTATIONS WITH E TYPE LV BOARD AC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	227350-1
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER DC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	227350-2
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT DC SCHEMATIC	227350-3
RMICB SUBSTATIONS WITH E TYPE LV BOARD DC SUPPLY CABLE LOOPING AND SCADA SCHEMATIC	227350-4
RMICB SUBSTATIONS WITH E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION FIBRE LOOPING AND GENERAL MOUNTING DETAILS	227350-5
RMICB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROTN PANEL WITH OPTICAL AFD STYLE 1 LAYOUT AND LABEL DETAILS DIAGRAM	227351-1
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 1 WIRING DIAGRAM	227351-2
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 1 CABLE CONNECTION DIAGRAM	227351-3
RMICB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROTN PANEL WITH OPTICAL AFD STYLE 2 LAYOUT AND LABEL DETAILS DIAGRAM	227352-1
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 WIRING DIAGRAM	227352-2
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 CABLE CONNECTION DIAGRAM	227352-3
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WALL MOUNTED PROTN PANEL LAYOUT AND LABEL DETAILS DIAGRAM	227353-1
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WIRING DIAGRAM	227353-2
RMICB SUBSTATIONS WITH E TYPE LV BOARD OPTICAL ARC FLASH DETECTION INDICATION PANEL SCHEMATIC DRILLING AND WIRING DIAGRAM	227354-1
RMICB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227355-1
RMICB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227355-2
RMICB SUBSTATIONS WITH E TYPE LV BOARD SUBURBAN TYPE SUBSTATION WITH 1500kVA TRANSFORMERS SERVICE BOARD GEN. ARRANGEMENT AND WIRING	227356-1
E TYPE LV BOARD MERLIN GERIN MASTERPAC TP AIR CIRCUIT BREAKERS EXTERNAL CONNECTIONS FOR AFD DIST. SUBSTATIONS	227357-1
RMICB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION SCADA PANEL WIRING AND CABLING DETAILS	227358-1
E TYPE LV BOARD ACCEPTABLE COMBINATIONS	178227
EPOXY RESIN ENCASED PROTECTION CURRENT TRANSFORMER OUTLINE AND DETAILS	125190
REFERENCE DRAWINGS	

A M E N D M E N T S

AMD	DATE	DESCRIPTION	DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY
4	12/06/2024	AMENDED TXP-B RELAY TYPE & VT INPUT CONNECTIONS AS SHOWN. AC & DC LINKS NOW 5mm TYPE.	L.M.	L.M.	M.B.	M.B.
5	19/09/2024	REPLACED SCHNEIDER P115 WITH SIEMENS 7SR4504 IN LEGEND & WIRING CONNECTIONS.	L.M.	L.M.	M.B.	M.B.
6	10/09/2025	DRAWING BORDER UPDATED. UTILUX H2238 ORANGE RAIL MOUNTED TERMINALS REPLACED BY PHOENIX UT 10 DG 3046281 FEED–THROUGH TERMINAL BLOCK. LEGENDS TABLE UPDATED.	H.O.	H.O.	M.B.	M.B.

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SCALE	NTS
DESIGNED	-
DRAWN	L.MARTINUZZI
CHECKED	W.BYRNE
APPROVED	M.BENNETT
DATE	15/06/2012
TRIM REF	-
ISSUED FOR	CONSTRUCTION ISSUE
PROJECT NUMBER	SM-06717

RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER WALL MOUNTED PROTECTION PANEL WITH OPTICAL AFD STYLE 2 WIRING DIAGRAM

DRAWING No 227352 | SHEET 2 | AMD 6 | SIZE A0

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