



- NOTES:**
- LINKS SHOULD BE MOUNTED SO THAT THE MOVEABLE LINK FALLS OPEN WHEN RELEASED.
 - NUMBERING ON BATTERY AND TEST LINKS REFERS TO LINK IDENTIFICATION AS SHOWN ON THE ASSOCIATED AC & DC PROTECTION SCHEMATICS, SEE DRAWING REFERENCE TABLE.
 - 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).
 - 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.
 - 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.
 - TEST LINKS (TL) TO BE WIRED N-C-B-A LEFT TO RIGHT WHEN VIEWED FROM THE REAR OF THE PANEL.
 - THE WIRING SHOWN IS BASED ON THE RELAYS LISTED IN THE LEGEND.
 - PANEL DOOR LAYOUT IS REPRESENTATIVE, FOR ACTUAL DOOR LAYOUT REFER DWG 227351-1.

TAGNAME	MFG	CATNO	DESC	REF_DWG
BL, LK, TL	EUGADUP	MOULDED TYPE MS	BATTERY/TEST LINK	507111
DIFF	-	K3M	DIFFERENTIAL FUSE RELAY	113243
EB	-	K3M	EARTH BAR	-
ES1, ES2	ALSTOM	8520P Break	FUSE - 2 STUD BACK CONNECTED	-
LV DC&EF-A	SIEMENS	75R4504-7HB0-1A40	OVERCURRENT & EARTH FAULT RELAY	-
TXP-B	SCHWEITZER	SEL-751A	TRANSFORMER PROTECTION RELAY	222674
VTT	MULTI CONNECT (IRS COMPONENTS)	SLB4-G	INSULATED TEST PANEL SOCKETS 1 x RED 23 3025 29 (1404-244) 1 x WHITE 23 3025 29 (1404-250) 1 x BLUE 23 3025 29 (1404-256) 1 x BLACK 23 3025 29 (1404-200)	231226
X1, X2, X10	UTLUX	3820	RAIL MOUNTED TERMINAL	118547
X6, X7	UTLUX	3820	RAIL MOUNTED TERMINAL	118547
X8	UTLUX	44239	RAIL MOUNTED TERMINAL - ORANGE	-
X50	UTLUX	3820	RAIL MOUNTED TERMINAL	118547
XS	WEIDMULLER	SAK 2 S	RAIL MOUNTED TERMINAL CAT No 27966	-
X5	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No 41226	-

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	227354-2
RMICB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227354-3
RMICB SUBSTATIONS WITH E TYPE LV BOARD SUBURBAN TYPE SUBSTATION WITH 1500VIA 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	178227-1
EPOXY RESIN ENCASED PROTECTION CURRENT TRANSFORMER OUTLINE AND DETAILS	125190-1

PANEL TERMINAL RAIL LAYOUT FRONT VIEW

PANEL DOOR REAR VIEW

AMENDMENTS

AMD	DATE	DESCRIPTION	DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY
3	08/08/2023	AMENDED TXP-B RELAY TYPE & VT INPUT CONNECTIONS AS SHOWN.	L.M.	L.M.	M.B.	M.B.
4	12/06/2024	AMENDED TXP-B RELAY TYPE & VT INPUT CONNECTIONS AS SHOWN. AMENDED AC & DC LINK NOW 5mm TYPE.	L.M.	L.M.	M.B.	M.B.
5	19/09/2024	REPLACED SCHNEIDER P115 WITH SIEMENS 75R4504 IN LEGEND & WIRING CONNECTIONS.	L.M.	L.M.	M.B.	M.B.

Ausgrid

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

RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER WALL MOUNTED PROTECTION PANEL WITH OPTICAL AFD STYLE 1 WIRING DIAGRAM

DRAWING No: 227351 SHEET 2 AMD 5 SIZE A0

ISSUED FOR CONSTRUCTION