



PANEL TERMINAL RAIL LAYOUT CABLING & WIRE JUMPERS

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- NOTES:**
- ALL CABLING AND WIRE JUMPING SHOWN IS FOR A 3 TRANSFORMER SUBSTATION WITH 2 CUSTOMER OVERCURRENT PROTECTION PANELS. ONLY REQUIRED CABLING AND WIRE JUMPING IS TO BE INSTALLED. SEE THE SUBSTATION DESIGN INFORMATION PACKAGE AND RELEVANT NETWORK STANDARDS.
  - CABLE NAMING COULD ALTER FOR THE POSSIBLE SUBSTATION CONFIGURATIONS. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE CABLING AND CABLE SCHEDULE DRAWINGS 227355SH01 - 02.
  - 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, FUSES 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.
  - ALARM AND SIGNAL CABLE SCREENS TO BE ISOLATED AND NOT TO BE TERMINATED IN THIS CABINET. SCREENS ONLY TO BE EARTHED AT SCADA CABINET.

TAGNAME	WFG	CATNO	DESC	REF_DWG
X1, X2, X10	UTILUX	3820	RAIL MOUNTED TERMINAL	11854.7
X5, XT	UTILUX	3820	RAIL MOUNTED TERMINAL	11854.7
X8	UTILUX	H2738	RAIL MOUNTED TERMINAL - ORANGE	11854.7
X50, XT	UTILUX	3820	RAIL MOUNTED TERMINAL	11854.7
X5	WEIDMULLER	SAK 2.5	RAIL MOUNTED TERMINAL CAT No 27966	-
X5	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No 41226	-

TITLE	DIWG No
RMICB SUBSTATIONS WITH E TYPE LV BOARD AC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	227355SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER DC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	227355SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT DC SCHEMATIC	227355SH03
RMICB SUBSTATIONS WITH E TYPE LV BOARD DC SUPPLY CABLE LOOPING AND SCADA SCHEMATIC	227355SH04
RMICB SUBSTATIONS WITH E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION FIBRE LOOPING AND GENERAL MOUNTING DETAILS	227355SH05
RMICB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROTIN PANEL WITH OPTICAL AFD STYLE 1 LAYOUT AND LABEL DETAILS DIAGRAM	227351SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 1 WIRING DIAGRAM	227351SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 1 CABLE CONNECTION DIAGRAM	227351SH03
RMICB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROTIN PANEL WITH OPTICAL AFD STYLE 2 LAYOUT AND LABEL DETAILS DIAGRAM	227352SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 WIRING DIAGRAM	227352SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 CABLE CONNECTION DIAGRAM	227352SH03
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WALL MOUNTED PROTIN PANEL LAYOUT AND LABEL DETAILS DIAGRAM	227353SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WIRING DIAGRAM	227353SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD OPTICAL ARC FLASH DETECTION INDICATION PANEL SCHEMATIC DRILLING AND WIRING DIAGRAM	227354SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227355SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227355SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD SUBURBAN TYPE SUBSTATION WITH 1500kVA TRANSFORMERS SERVICE BOARD GEN ARRANGEMENT AND WIRING	227356SH01
E TYPE LV BOARD MERLIN GERIN MASTERPAC TP AIR CIRCUIT BREAKERS EXTERNAL CONNECTIONS FOR AFD DIST. SUBSTATIONS	227357SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION SCADA PANEL WIRING AND CABLE DETAILS	227358SH01
E TYPE LV BOARD ACCEPTABLE COMBINATIONS	178227
EPOXY RESIN ENCASED PROTECTION CURRENT TRANSFORMER OUTLINE AND DETAILS	126190
REFERENCE DRAWINGS	

**CAUTION**  
DRAWING NO. 227355  
DATE 15/06/2012  
BY L. MARTINUZZI  
CHECKED BY W. BYRNE  
APPROVED BY M. BENNETT  
SCALE AS SHOWN  
DESIGNED BY L. MARTINUZZI  
DRAWN BY W. BYRNE  
CHECKED BY M. BENNETT  
APPROVED BY M. BENNETT  
DATE 15/06/2012  
TRIM REF -  
PROJECT NUMBER SM 6717-1-2  
DRAWING No 227352 SHEET 3 AMD 1 SIZE A0

**Ausgrid**  
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RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER WALL MOUNTED PROTECTION PANEL WITH OPTICAL AFD STYLE 2 CABLING CONNECTION DIAGRAM

DRAWING No 227352 SHEET 3 AMD 1 SIZE A0