



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 7/0.67, 0.6KV GRADE PVC INSULATED COLOURED GREY UNLESS OTHERWISE SPECIFIED. ALL EARTH WIRING TO BE COLOURED GREEN/YELLOW. 415V/240V AC WIRING TO BE RED FOR A PHASE, WHITE FOR B PHASE, BLUE FOR C PHASE AND BLACK FOR NEUTRAL.
  - TERMINALS, GALLARD'S AND RELAY CONNECTIONS ARE TO BE FITTED WITH CAUTION LABELS TO WARN OF THE 415V/240 AC HAZARD. ANY EXPOSED RELAY 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.

1ACB	TRANSFORMER No.1 415V CIRCUIT BREAKER
1HFV	TRANSFORMER No.1 EARTH FAULT CT
1EF	TRANSFORMER No.1 EARTH FAULT CT
A	30V DC 'A' BATTERY
B	415V SWITCHED DC 'B' BATTERY
P2	TRANSFORMER No.2 PROTECTION PANEL
P3	TRANSFORMER No.3 PROTECTION PANEL
PC1	CUSTOMER OVERCURRENT No.1 PROTECTION PANEL
PC2	CUSTOMER OVERCURRENT No.2 PROTECTION PANEL
SB	SERVICE BOARD
T1	TRANSFORMER No.1
ZM	SCADA CABINET (ALARM & SIGNALING UNIT)

2ACB	TRANSFORMER No.2 415V CIRCUIT BREAKER
2EF	TRANSFORMER No.2 EARTH FAULT CT
2HFV	TRANSFORMER No.2 EARTH FAULT CT
P1	TRANSFORMER No.1 PROTECTION PANEL
P2	TRANSFORMER No.2 PROTECTION PANEL
P3	TRANSFORMER No.3 PROTECTION PANEL
PC1	CUSTOMER OVERCURRENT No.1 PROTECTION PANEL
PC2	CUSTOMER OVERCURRENT No.2 PROTECTION PANEL
SB	SERVICE BOARD
T2	TRANSFORMER No.2
T3	TRANSFORMER No.3
ZM	SCADA CABINET (ALARM & SIGNALING UNIT)

3ACB	TRANSFORMER No.3 415V CIRCUIT BREAKER
3EF	TRANSFORMER No.3 EARTH FAULT CT
3HFV	TRANSFORMER No.3 EARTH FAULT CT
P1	TRANSFORMER No.1 PROTECTION PANEL
P2	TRANSFORMER No.2 PROTECTION PANEL
P3	TRANSFORMER No.3 PROTECTION PANEL
PC1	CUSTOMER OVERCURRENT No.1 PROTECTION PANEL
PC2	CUSTOMER OVERCURRENT No.2 PROTECTION PANEL
SB	SERVICE BOARD
T3	TRANSFORMER No.3
ZM	SCADA CABINET (ALARM & SIGNALING UNIT)

TAGNAME	WFG	CATNO	DESC	REF_DWG
X1, X2, X5, X10	UTILUX	3820	RAIL MOUNTED TERMINAL	11854.7
X6, XT	UTILUX	3820	RAIL MOUNTED TERMINAL	11854.7
X8	UTILUX	H2738	RAIL MOUNTED TERMINAL - ORANGE	11854.7
X50, XT, T	UTILUX	3819	RAIL MOUNTED TERMINAL	11854.7
X5	WEDMULLER	SAK 2.5	RAIL MOUNTED TERMINAL CAT No. 21966	-
X5	I-1	WEDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.41226

TITLE	DIWG No.
RMCB SUBSTATIONS WITH E TYPE LV BOARD AC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	227355Sh01
RMCB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER DC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	227355Sh02
RMCB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT DC SCHEMATIC	227355Sh03
RMCB SUBSTATIONS WITH E TYPE LV BOARD DC SUPPLY CABLE LOOPING AND SCADA SCHEMATIC	227355Sh04
RMCB SUBSTATIONS WITH E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION FIBRE LOOPING AND GENERAL MOUNTING DETAILS	227355Sh05
RMCB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROTIN PANEL WITH OPTICAL AFD STYLE 1 LAYOUT AND LABEL DETAILS DIAGRAM	227351S101
RMCB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 1 WIRING DIAGRAM	227351S102
RMCB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 1 CABLE CONNECTION DIAGRAM	227351S103
RMCB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROTIN PANEL WITH OPTICAL AFD STYLE 2 LAYOUT AND LABEL DETAILS DIAGRAM	227352S101
RMCB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 WIRING DIAGRAM	227352S102
RMCB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 CABLE CONNECTION DIAGRAM	227352S103
RMCB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WALL MOUNTED PROTIN PANEL LAYOUT AND LABEL DETAILS DIAGRAM	227353S101
RMCB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WIRING DIAGRAM	227353S102
RMCB SUBSTATIONS WITH E TYPE LV BOARD OPTICAL ARC FLASH DETECTION INDICATION PANEL SCHEMATIC DRILLING AND WIRING DIAGRAM	227354S101
RMCB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227355S101
RMCB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227355S102
RMCB SUBSTATIONS WITH E TYPE LV BOARD SUBURBAN TYPE SUBSTATION WITH 1500kVA TRANSFORMERS SERVICE BOARD GEN. ARRANGEMENT AND WIRING	227356S101
E TYPE LV BOARD MERLIN GERIN MASTERPAC TP AIR CIRCUIT BREAKERS EXTERNAL CONNECTIONS FOR AFD DIST. SUBSTATIONS	227357S101
RMCB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION SCADA PANEL WIRING AND CABLING DETAILS	227358S101
E TYPE LV BOARD ACCEPTABLE COMBINATIONS	178227
EPOXY RESIN ENCASED PROTECTION CURRENT TRANSFORMER OUTLINE AND DETAILS	125190

20111004  
EAS DRAWING  
OF  
AMENDMENTS

NETWORK STANDARD  
DESIGN AND ENGINEERING BRANCH  
510 GEORGE ST SYDNEY, NSW 2000  
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SCALE AS SHOWN  
DESIGNED -  
DRAWN L.MARTINUZZI  
CHECKED W.BYRNE  
APPROVED M.BENNETT  
DATE 15/06/2012  
PRJ/TRK No. -  
PROJECT NUMBER SM 6717-1-2

RMCB 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 0 SIZE A0

C&P - Distribution Substations