

WALL MOUNTED PANEL (MARK 4A)
TERMINAL LAYOUT FRONT VIEW

WALL MOUNTED PANEL (MARK 4A)
DOOR LAYOUT FRONT VIEW

LABEL DETAILS						
LABEL	LABEL SIZE	COLOUR	TEXT LINE	TEXT HEIGHT	ENGRAVING	No OFF
1	C8	GRAVOPLY No 200 WHITE/BLACK	LINE 1 LINE 2	8 8	TRANSFORMER No.H	1
2	C7	GRAVOPLY No 200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRANSFORMER DIFFERENTIAL RELAY	1
3	C7	GRAVOPLY No 200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	LV DC & EF RELAY	1
4	C7	GRAVOPLY No 200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRANSFORMER THERMAL TRIP INDICATOR	1
5	C7	GRAVOPLY No 200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRANSFORMER & ARC FLASH RELAY	1
6	C10	GRAVOPLY No 259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	A B C OVERCURRENT & EARTH FAULT RELAY CT TEST LINKS	1
7	C10	GRAVOPLY No 259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	A B C OVERCURRENT & EARTH FAULT RELAY DELTA TEST LINKS	1
8	C10	GRAVOPLY No 259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	A B C TRANSFORMER & ARC FLASH RELAY TEST LINKS	1
9	C1	GRAVOPLY No 259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3	4.0 2.5 2.5	A B C N TRANSFORMER PROTECTION H.V. CT TEST LINKS	1
10	C10	GRAVOPLY No 259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3	4.0 2.5 2.5	Nr A N EARTH FAULT CT TEST LINKS	1
11	C2	GRAVOPLY No 200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TX No.1 ARC FLASH BATTERY LINK	1
12	C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1 LINE 2	2.5 2.5	TX No.1 ARC FLASH TRIP LINK	1
13	C2	GRAVOPLY No 200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TX No.2 ARC FLASH BATTERY LINK	1
14	C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1 LINE 2	2.5 2.5	TX No.2 ARC FLASH TRIP LINK	1
15	C2	GRAVOPLY No 200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TX No.3 ARC FLASH BATTERY LINK	1
16	C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1 LINE 2	2.5 2.5	TX No.3 ARC FLASH TRIP LINK	1
17	C2	GRAVOPLY No 200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	ARC FLASH BYPASS BATTERY LINK NORMALLY OPEN	1
18	C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1 LINE 2	2.5 2.5	TX No.1 CURRENT CHECK LINK	1
19	C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1 LINE 2	2.5 2.5	TX No.1 CURRENT CHECK TRIP LINK	1
20	C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1 LINE 2	2.5 2.5	TX No.2 CURRENT CHECK LINK	1
21	C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1 LINE 2	2.5 2.5	TX No.2 CURRENT CHECK TRIP LINK	1
22	C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1 LINE 2	2.5 2.5	TX No.3 CURRENT CHECK LINK	1
23	C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1 LINE 2	2.5 2.5	TX No.3 CURRENT CHECK TRIP LINK	1
24	C2	GRAVOPLY No 200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRANSFORMER HV DC BATTERY LINK	1
25	C2	GRAVOPLY No 200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRANSFORMER LOAD RELIEF BATTERY LINK	1
26	C2	GRAVOPLY No 200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRANSFORMER DIFFERENTIAL BATTERY LINK	1
27	C2	GRAVOPLY No 200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRANSFORMER DC & EF BATTERY LINK	1
28	C2	GRAVOPLY No 200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRANSFORMER THERMAL BATTERY LINK	1
29	C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1 LINE 2	2.5 2.5	CUSTOMER OC No.1 TRIP LINK	1
30	C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1 LINE 2	2.5 2.5	CUSTOMER OC No.2 TRIP LINK	1
31	C12	TRAFFOLYTE RED/WHITE/RED	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	FS1 FS2 10B 1B 48V & 30V MASTER BATT FUSES & LINKS	1
32	C3	TRAFFOLYTE RED/WHITE/RED	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	10A 30V TA MASTER BATT LINKS	1
33	C23	GRAVOPLY No 259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3	4.0 2.5 2.5	A B C N 415V AC VOLTAGE TEST TERMINALS	1

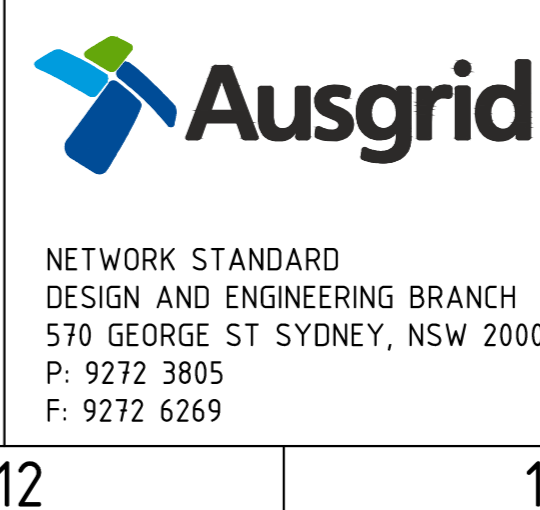
NOTES

- THIS DRAWING SHOWS THE NEW TRANSFORMER PROTECTION PANEL LAYOUT FOR SUBURBAN DISTRIBUTION SUBSTATIONS. IT INCORPORATES OPTICAL ARC FLASH DETECTION AND THERMAL TRIPPING FROM THE TRANSFORMER THERMAL RELAY.
- LABELS ARE TO BE MADE AS SHOWN ON DRAWING B1-178241.
- DRILLING ARRANGEMENT SUITS A MARK 4A WALL MOUNTED RELAY PANEL. PANEL DEPTH TO BE 300mm, SEE DRAWING A1-28632.
- RELAY NAMING CONVENTION ALTERED TO INDICATE MULTIPLE PROTECTION FUNCTIONS COVER BY THE SAME RELAY.
- ALL DIMENSIONS ARE IN MILLIMETRES.
- FOR LABELS WITH #, SUBSTITUTE THE RELEVANT TRANSFORMER NUMBER.
- THIS DRAWING IS TO BE USED WHEN A DRY TYPE TRANSFORMER IS INSTALLED. THE THERMAL RELAY (Th) AND A TRIP INDICATOR ARE TO BE CONNECTED. THE THERMAL RELAY IS LOCATED AND SUPPLIED ON THE TRANSFORMER BY THE TRANSFORMER MANUFACTURER. THE TRIP INDICATOR IS LOCATED ON THE TRANSFORMER PROTECTION PANEL AND IS SUPPLIED BY AUSGRID.
- STANDARD WARNING LABEL TO HIGHLIGHT THE 415V AC HAZARD TO BE MOUNTED AS SHOWN BOTH FRONT AND BACK OF THE PANEL DOOR.

TAGNAME	HFG	CATNO	DESC	REF DWG
BL, LK, TL	EUGADUP	MOULDED TYPE M6	BATTERY/TEST LINK	38841
DIFF	-	43M	DIFFERENTIAL FUSE RELAY	113243
EB	-	EARTH BAR	EARTH BAR	-
FS1, FS2	ALSTOM	RS20P Black	FUSE - 2 STUD BACK CONNECTED	-
LV DC&EF-A	SCHNEIDER ELECT.	MCOM P115	OVERCURRENT & EARTH FAULT RELAY	225082
TXP-B	SCHWEITZER	SEL-751A	TRANSFORMER PROTECTION RELAY	222614
TI-1	RMS	3A32937	TRIP INDICATOR TI-1 (0.2 ohm)	423399
VT	MULTI CONNECT (RS COMPONENTS)	SLEW-G	INSULATED TEST PANEL SOCKETS 1 x RED 23 3020 27 (404-244) 1 x WHITE 23 3020 29 (404-250) 1 x BLUE 23 3020 23 (404-256) 1 x BLACK 23 3020 21 (404-260)	231226
X1, X2, X5, X10	UTLILUX	3820	RAIL MOUNTED TERMINAL	188547
X6, X7	UTLILUX	3820	RAIL MOUNTED TERMINAL	188547
X8	UTLILUX	H2238	RAIL MOUNTED TERMINAL - ORANGE	-
X50, XT	UTLILUX	3820	RAIL MOUNTED TERMINAL	188547
X5	WEIDMULLER	SAK 2.5	RAIL MOUNTED TERMINAL CAT No. 27966	-
X5	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.41226	-

TITLE	DWG 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 TX WALL MOUNTED PROT PANEL WITH OPTICAL AFD STYLE 2 LAYOUT AND LABEL DETAILS DIAGRAM	227355Sh01
RMCB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 WIRING DIAGRAM	227355Sh02
RMCB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 CABLE CONNECTION DIAGRAM	227355Sh03
RMCB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227355Sh04
RMCB SUBSTATIONS WITH E TYPE LV BOARD OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227355Sh02
E TYPE LV BOARD MERLIN GERIN MASTERPAC TP AIR CIRCUIT BREAKERS EXTERNAL CONNECTIONS FOR AFD DIST. SUBSTATIONS	227357Sh01
WALL MOUNTED RELAY PANELS DETAILS	28632
E TYPE LV BOARD ACCEPTABLE COMBINATIONS	178227

SCALE	DESIGNED	CHECKED	APPROVED	DATE	PRJTRK No.	PROJECT NUMBER
1:2	-	L.MARTINUZZI	M.BENNETT	15/06/2012	-	SM 06717-1-2



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DESIGN AND ENGINEERING BRANCH
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RMCB SUBSTATIONS
WITH E TYPE LV BOARD
TRANSFORMER WALL MOUNTED PROTECTION
PANEL WITH OPTICAL AFD STYLE 2
LAYOUT AND LABEL DETAILS DIAGRAM

DRAWING No 227352 SHEET 1 AMD 1 SIZE A0