



WALL MOUNTED PANEL (MARK 1A)
TERMINAL LAYOUT FRONT VIEW

WALL MOUNTED PANEL (MARK 1A)
DOOR LAYOUT FRONT VIEW

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DUAL PANEL VERSION

NOTES:

- THIS DRAWING SHOWS THE CUSTOMER SUPPLY OVERCURRENT PROTECTION PANEL LAYOUT FOR SUBURBAN DISTRIBUTION SUBSTATIONS WHICH HAVE OPTICAL ARC FLASH DETECTION INSTALLED.
- 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 & AC WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED RED (R).
B PHASE CT & AC WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED WHITE (W).
C PHASE CT & AC WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED BLUE (B).
EARTH CT & NEUTRAL AC WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED BLACK (BK).
- WHERE SHOWN A 5mm WIDE BLACK LINE IS TO BE PAINTED ON THE FRONT AND REAR OF THE PANEL DOOR. IT SHOWS THE SEGREGATION BETWEEN CUSTOMER OVERCURRENT No.1 PANEL (TOP) & CUSTOMER OVERCURRENT No.2 PANEL (BOTTOM).
- LABELS ARE TO BE MADE AS SHOWN ON DRAWINGS 178241-1 & 64825-1.
FOR 5mm LINK ASSEMBLY REFER DRAWING 507111-1. FOR 5mm LABELS REFER TO DRAWINGS 50996-2, & 64825-2.
- DRILLING ARRANGEMENT SUITS A MARK 1A WALL MOUNTED RELAY PANEL. PANEL DEPTH TO BE 300mm. REFER DRAWING 28632-1.
- ALL DIMENSIONS ARE IN MILLIMETRES.
- FOR A CUSTOMER CABLE SUPPLY, THE CUSTOMER SWITCH CAN BE AN AIR CIRCUIT BREAKER OR A DISCONNECTOR. FOR A CUSTOMER BUSBAR SUPPLY, THE CUSTOMER SWITCH CAN BE AN AIR CIRCUIT BREAKER, A DISCONNECTOR OR A LINK.

LABEL DETAILS FOR CUSTOMER OC No.1 PANEL						
LABEL	LABEL SIZE	COLOUR	TEXT LINE	TEXT HEIGHT	ENGRAVING	No OFF
1	C8	GRAVOPLY No.200 WHITE/BLACK	LINE 1	8	CUSTOMER OVERCURRENT No.1	1
2	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	OVERCURRENT & EARTH FAULT RELAY	1
3	C3	TRAFFOLYTE RED/WHITE/RED	LINE 1	4.0	10A 1A 30V 'A' MASTER BATT LINKS	1
4	C3	TRAFFOLYTE RED/WHITE/RED	LINE 1	4.0	F51 1B 48V & 30V 'B' MASTER BATT FUSE & LINK	1
5	5C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1	2.5	TRIP TO TRANSFORMER No. 1 TRIP LINK ON TX No.1 PANEL 21Aa	1
6	5C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1	2.5	TRIP TO TRANSFORMER No. 2 TRIP LINK ON TX No.2 PANEL 21Ab	1
7	5C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1	2.5	TRIP TO TRANSFORMER No. 3 TRIP LINK ON TX No.3 PANEL 21Ac	1
8	5C11	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1	4.0	Nr A B C N CUSTOMER OC & EF No.1 CT TEST LINKS	1
9	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	TRIP RELAY	1

LABEL DETAILS FOR CUSTOMER OC No.2 PANEL						
LABEL	LABEL SIZE	COLOUR	TEXT LINE	TEXT HEIGHT	ENGRAVING	No OFF
1	C8	GRAVOPLY No.200 WHITE/BLACK	LINE 1	8	CUSTOMER OVERCURRENT No.2	1
2	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	OVERCURRENT & EARTH FAULT RELAY	1
3	C3	TRAFFOLYTE RED/WHITE/RED	LINE 1	4.0	10A 1A 30V 'A' MASTER BATT LINKS	1
4	C3	TRAFFOLYTE RED/WHITE/RED	LINE 1	4.0	F51 1B 48V & 30V 'B' MASTER BATT FUSE & LINK	1
5	5C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1	2.5	TRIP TO TRANSFORMER No. 1 TRIP LINK ON TX No.1 PANEL 22Aa	1
6	5C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1	2.5	TRIP TO TRANSFORMER No. 2 TRIP LINK ON TX No.2 PANEL 22Ab	1
7	5C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1	2.5	TRIP TO TRANSFORMER No. 3 TRIP LINK ON TX No.3 PANEL 22Ac	1
8	5C11	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1	4.0	Nr A B C N CUSTOMER OC & EF No.2 CT TEST LINKS	1
9	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	TRIP RELAY	1

TAGNAME	MFG	CATNO	DESC	REF_DWG
BL TL	EUGAQUIP	MOULDED TYPE MS	BATTERY TEST LINK	59701
C-DC	SIEMENS	7SR4504-2H20-1AA	OVERCURRENT & EARTH FAULT RELAY	26011
TRIA	RMS	TR12-BD-22	LATCHING MULTITRIP RELAY 32V DC	223206
EB	-	EARTH BAR	EARTH BAR	-
F51	ALSTOM	R520P Black	FUSE - 2 STUD BACK CONNECTED	18547
X1,X5,X7	UTLUX	3829	RAIL MOUNTED TERMINAL	-
X8	UTLUX	H2230	RAIL MOUNTED TERMINAL ORANGE	-
XS	WEDMULLER	SAK 2.5	RAIL MOUNTED TERMINAL CAT No. 21966	-
XS	WEDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.41226	-

FOR DUAL CUSTOMER OVERCURRENT PROTECTION PANEL													
LABEL DETAILS FOR CUSTOMER OC No.1 PANEL							LABEL DETAILS FOR CUSTOMER OC No.2 PANEL						
LABEL	LABEL SIZE	COLOUR	TEXT LINE	TEXT HEIGHT	ENGRAVING	No OFF	LABEL	LABEL SIZE	COLOUR	TEXT LINE	TEXT HEIGHT	ENGRAVING	No OFF
1	C8	GRAVOPLY No.200 WHITE/BLACK	LINE 1	8	CUSTOMER OVERCURRENT No.1	1	9	C8	GRAVOPLY No.200 WHITE/BLACK	LINE 1	8	CUSTOMER OVERCURRENT No.2	1
2	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	OVERCURRENT & EARTH FAULT RELAY	1	10	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	OVERCURRENT & EARTH FAULT RELAY	1
3	C3	TRAFFOLYTE RED/WHITE/RED	LINE 1	4.0	10A 1A 30V 'A' MASTER BATT LINKS	1	11	C3	TRAFFOLYTE RED/WHITE/RED	LINE 1	4.0	10A 1A 30V 'A' MASTER BATT LINKS	1
4	C3	TRAFFOLYTE RED/WHITE/RED	LINE 1	4.0	F51 1B 48V & 30V 'B' MASTER BATT FUSE & LINK	1	12	C3	TRAFFOLYTE RED/WHITE/RED	LINE 1	4.0	F51 1B 48V & 30V 'B' MASTER BATT FUSE & LINK	1
5	5C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1	2.5	TRIP TO TRANSFORMER No. 1 TRIP LINK ON TX No.1 PANEL 21Aa	1	13	5C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1	2.5	TRIP TO TRANSFORMER No. 1 TRIP LINK ON TX No.1 PANEL 22Aa	1
6	5C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1	2.5	TRIP TO TRANSFORMER No. 2 TRIP LINK ON TX No.2 PANEL 21Ab	1	14	5C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1	2.5	TRIP TO TRANSFORMER No. 2 TRIP LINK ON TX No.2 PANEL 22Ab	1
7	5C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1	2.5	TRIP TO TRANSFORMER No. 3 TRIP LINK ON TX No.3 PANEL 21Ac	1	15	5C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1	2.5	TRIP TO TRANSFORMER No. 3 TRIP LINK ON TX No.3 PANEL 22Ac	1
8	5C11	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1	4.0	Nr A B C N CUSTOMER OC & EF No.1 CT TEST LINKS	1	16	5C11	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1	4.0	Nr A B C N CUSTOMER OC & EF No.2 CT TEST LINKS	1
8A	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	TRIP RELAY	1	16A	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	TRIP RELAY	1

AMD	DATE	DESCRIPTION	DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY
0	15/06/2012	AMENDED NOTE 3. DELETED FINAL SENTENCES WITH INCORRECT LVACB TRIPPING EXPLANATION.	-	L.M.	W.B.	M.B.
1	12/06/2024	BORDER & TITLE BLOCK UPDATED. AMENDED NOTE 2 TO CURRENT PANEL WIRING STANDARD. AC & DC LINKS NOW 5mm TYPE. LAYOUT & LABEL SIZES AMENDED FOR CHANGES.	L.M.	L.M.	M.B.	M.B.
2	19/09/2024	ADDED MULTITRIP RELAY & REPLACED SCHNEIDER P15 WITH SIEMENS 7SR4504 IN LEGEND & PANEL LAYOUTS. ADDED NEW LABELS FOR TRIP RELAY. AMENDED TEXTS & NOTE 5 FOR PANEL TYPE DEPTH.	L.M.	L.M.	M.B.	M.B.

ASSOCIATED DRAWINGS	NO.	DESCRIPTION
WALL MOUNTED RELAY PANELS DETAILS	28632-1	
RMICB SUBSTATIONS WITH E TYPE LV BOARD & OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227355-1	
RMICB SUBSTATIONS WITH E TYPE LV BOARD AC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	227355-2	

Ausgrid
24 Campbell Street
SYDNEY NSW 2000
P: 9272 3805

SCALE: 1:2
DESIGNED: -
DRAWN: L.MARTINUZZI
CHECKED: W.BYRNE
APPROVED: M.BENNETT
DATE: 15/06/2012
TRM REF: -
PROJECT NUMBER: -

RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WALL MOUNTED PROTECTION PANEL LAYOUT & LABEL DETAILS DIAGRAM

ISSUED FOR CONSTRUCTION

DRAWING No: 227353 SHEET 1 AMD 2 SIZE A0