



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	8	TRANSFORMER No.#	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 OC & EF	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	Nf 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 OC 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 OC & EF 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 'B' 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 1A 30V 'A' 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.
  - LABELS ARE TO BE MADE AS SHOWN ON DRAWING B1-178241.
  - DRILLING ARRANGEMENT SUIT 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.
  - STANDARD WARNING LABEL TO HIGHLIGHT THE 415V AC HAZARD TO BE MOUNTED AS SHOWN BOTH FRONT AND BACK OF THE PANEL DOOR.

TAGNAME	MFG	CATNO	DESC	REF_DWG
BL, LK, TL	EUGAGUP	MOULDED TYPE M6	BATTERY/TEST LINK	38841
DIFF	-	K3M	DIFFERENTIAL FUSE RELAY	113243
EB	-	EARTH BAR	EARTH BAR	-
FS1, FS2	ALSTOM	R5209 Black	FUSE - 2 STUD BACK CONNECTED	-
LK-A, B, C	ALSTOM	SAFECLIP SC32H white	LINK - DIN MOUNTED, FRONT CONNECTED	-
LK-N	ALSTOM	SAFECLIP SC32H white	LINK - DIN MOUNTED, FRONT CONNECTED	-
LV OC&EF-A	SCHNEIDER ELECT	MCOM P15	OVERCURRENT & EARTH FAULT RELAY	225082
TRIP-B	SCHNEIDER ELECT	SEL-T51	TRANSFORMER PROTECTION RELAY	-
VTT	MULTICORRECT (IRS COMPONENTS)	SBR4-G	INSULATED TEST PANEL SOCKETS 1x RED 23 3020 22 (404-244) 1x WHITE 23 3020 21 (404-250) 1x BLUE 23 3020 23 (404-246) 1x BLACK 23 3020 21 (404-200)	231226
X1, X2, X10	UTLUX	3820	RAIL MOUNTED TERMINAL	18547
X6, X7	UTLUX	3820	RAIL MOUNTED TERMINAL	18547
X8	UTLUX	H2238	RAIL MOUNTED TERMINAL - ORANGE	-
X50, XT	UTLUX	3820	RAIL MOUNTED TERMINAL	18547
XS	WEDMULLER	SAK 25	RAIL MOUNTED TERMINAL CAT No. 27966	-
XS	WEDMULLER	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	227350Sh01
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER DC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	227350Sh02
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT DC SCHEMATIC	227350Sh03
RMICB SUBSTATIONS WITH E TYPE LV BOARD DC SUPPLY CABLE LOOPING AND SCADA SCHEMATIC	227350Sh04
RMICB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROT 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 AND OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227355Sh01
RMICB SUBSTATIONS WITH E TYPE LV BOARD AND 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

**LEGEND**

1. REFERENCE TO DRAWING FROM WHICH THE LEGEND FOR NEW SOCKETS STYLE IS TAKEN

2. REFERENCE TO CORRECTED NOTE

3. REFERENCE TO CORRECTED NOTE

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16. REFERENCE TO CORRECTED NOTE

**Ausgrid**

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ISSUED FOR CONSTRUCTION

SCALE: 1:2

DESIGNED: -

DRAWN: L.MARTINUZZI

CHECKED: W.BYRNE

APPROVED: M.BENNETT

DATE: 15/06/2012

TRIM REF: -

PROJECT NUMBER: -

DRAWING No: 227351

SHEET 1

AMD 3

SIZE A0

RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER WALL MOUNTED PROTECTION PANEL WITH OPTICAL AFD STYLE 1 LAYOUT AND LABEL DETAILS DIAGRAM

C&P - DISTRIBUTION SUBS