



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 4BY & 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

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

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

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.

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 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 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

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	RS209 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 P115	OVERCURRENT & EARTH FAULT RELAY	225082
TRP-B	SCHNEIDER	SEL-751A	TRANSFORMER PROTECTION RELAY	222876
VTT	MULTICONNECT (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)	230226
X1, X2, X10	UTFLUX	3820	RAIL MOUNTED TERMINAL	18547
X6, X7	UTFLUX	3820	RAIL MOUNTED TERMINAL	18547
X8	UTFLUX	H2238	RAIL MOUNTED TERMINAL - ORANGE	-
X50, XT	UTFLUX	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	-

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

REV	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	15/06/2012
2	REVISED FOR NEW SOCKETS STYLE	20/06/2013
3	REVISED FOR NEW SOCKETS STYLE	20/06/2013
4	REVISED FOR NEW SOCKETS STYLE	20/06/2013
5	REVISED FOR NEW SOCKETS STYLE	20/06/2013
6	REVISED FOR NEW SOCKETS STYLE	20/06/2013
7	REVISED FOR NEW SOCKETS STYLE	20/06/2013
8	REVISED FOR NEW SOCKETS STYLE	20/06/2013
9	REVISED FOR NEW SOCKETS STYLE	20/06/2013
10	REVISED FOR NEW SOCKETS STYLE	20/06/2013
11	REVISED FOR NEW SOCKETS STYLE	20/06/2013
12	REVISED FOR NEW SOCKETS STYLE	20/06/2013
13	REVISED FOR NEW SOCKETS STYLE	20/06/2013
14	REVISED FOR NEW SOCKETS STYLE	20/06/2013
15	REVISED FOR NEW SOCKETS STYLE	20/06/2013
16	REVISED FOR NEW SOCKETS STYLE	20/06/2013



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

DRAWING No. 227351 SHEET 1 AMD 2 SIZE A0