

TRANSFORMER PROTECTION PANEL DOOR (REAR VIEW)

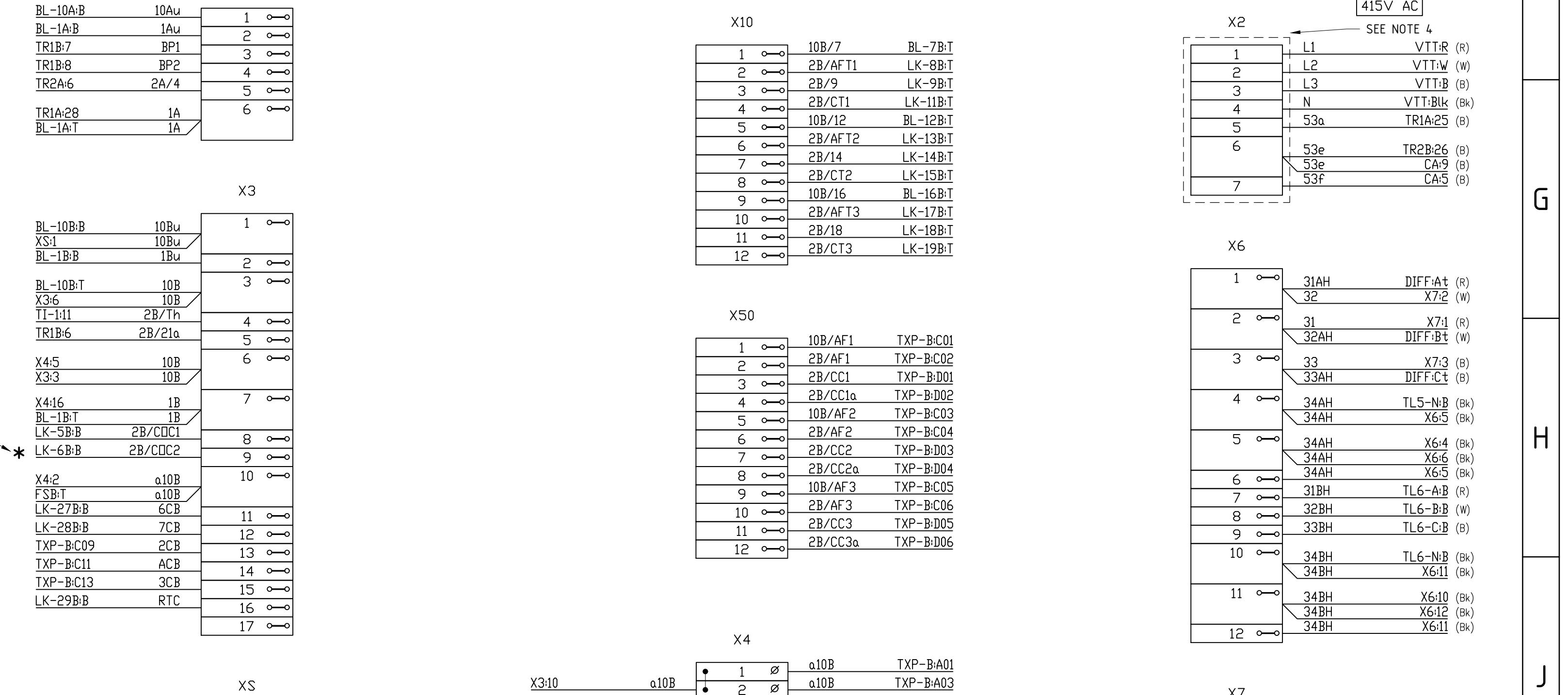
REFERENCE DRAWINGS

DESCRIPTION	DWG No.
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION AC SCHEMATIC	227380 SH1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, AND OPTICAL ARC FLASH DETECTION TRANSFORMER DC SCHEMATIC	227380 SH2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CUSTOMER OVERCURRENT DC SCHEMATIC	227380 SH3
CITY DISTRIBUTION SUB WITH E TYPE LV BOARD AND OAFD, DLAC PANEL, SCHEMATIC, GENERAL DC SUPPLIES INTER-PANEL WIRING, FIBRE COMMS & CABLING DIAGRAM	227380 SH4
CITY DISTRIBUTION SUBSTATIONS WITH OPTICAL ARC FLASH DETECTION (E TYPE LV) TRANSFORMERS AND CUSTOMER OVERCURRENT FREE STANDING PANELS LAYOUT DETAILS	227381 SH1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD & OAFD, TRANSFORMERS AND CUSTOMER OVERCURRENT PROTECTION FREE STANDING PANELS LABEL DETAILS	227381 SH2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, DRY TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL WIRING DIAGRAM	227383 SH1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OIL TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL WIRING DIAGRAM	227383 SH2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, DRY TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL CABLE CONNECTION DIAGRAM	227384 SH1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OIL TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL CABLE CONNECTION DIAGRAM	227384 SH2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD CUSTOMER OC No 1 (8 No 2) PROTECTION PANEL WIRING AND CABLE CONNECTIONS	227385 SH1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227386 SH1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD & OAFD, TRANSFORMERS AND CUSTOMER OVERCURRENT PROTECTION FREE STANDING PANELS LABEL DETAILS	227386 SH2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD 1500VA TX'S AND VENTILATION FAN AC SERVICE BOARD LAYOUT, WIRING, & CONNECTIONS	227387 SH1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD DISTRIBUTION LOCAL AUTOMATION CONTROL PANEL LAYOUT AND LABEL DETAILS	227388 SH1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OAFD, & CUSTOMER OC No 1 & No 2 PROTECTION, DISTRIBUTION AUTOMATION CONTROL PANEL WIRING & CABLING	227389 SH1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OAFD, & CUSTOMER OC No 1 PROTECTION, DISTRIBUTION AUTOMATION CONTROL PANEL WIRING & CABLING DIAGRAM	227389 SH2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD TRANSFORMER ACB INTERNAL WIRING AND ACB PANEL CONTROL WIRING SCHEMATIC	227390 SH1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD CUSTOMER ACB INTERNAL WIRING AND ACB PANEL CONTROL WIRING SCHEMATIC	227390 SH2
RMS3 SUBSTATIONS WITH E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION FIBRE LOOPING AND GENERAL MOUNTING DETAILS	227399 SH5
EPOXY RESIN ENCASED PROTECTION CURRENT TRANSFORMER OUTLINE AND DETAILS	125798

NOTES:

- 1. LINKS SHOULD BE MOUNTED SO THAT THE MOVEABLE LINK FALLS OPEN WHEN RELEASED.
- 2. NUMBERING ON BATTERY AND TEST LINKS REFERS TO LINK IDENTIFICATION AS SHOWN ON THE ASSOCIATED AC & DC PROTECTION SCHEMATICS, SEE DRAWING REFERENCE TABLE.
- 3. ALL PANEL WIRING IS TO BE AS LISTED HERE:
 - DC WIRING IS TO BE 7/0.95, 0.84V GRADE PVC INSULATED COLOURED GREY.
 - EARTH WIRING IS TO BE 7/0.67, 0.64V GRADE PVC INSULATED COLOURED GREEN/YELLOW (Y/G).
 - A PHASE CT AND AC WIRING IS TO BE 7/0.67, 0.64V GRADE PVC INSULATED COLOURED RED (R).
 - B PHASE CT AND AC WIRING IS TO BE 7/0.67, 0.64V GRADE PVC INSULATED COLOURED WHITE (W).
 - C PHASE CT AND AC WIRING IS TO BE 7/0.67, 0.64V GRADE PVC INSULATED COLOURED BLUE (B).
 - EARTH CT AND NEUTRAL AC WIRING IS TO BE 7/0.67, 0.64V GRADE PVC INSULATED COLOURED BLACK (BK).
- 4. TERMINALS, INSULATED TEST PANEL SOCKETS AND RELAY CONNECTIONS ARE TO BE FITTED WITH CAUTION LABELS TO WARN OF THE 415V/240 AC HAZARD. ANY EXPOSED TERMINALS ARE TO BE APPROPRIATELY COVERED.
- 5. 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.
- 6. TEST LINKS (TL) TO BE WIRED N-C-B-A LEFT TO RIGHT WHEN VIEWED FROM THE REAR OF THE PANEL.
- 7. THE WIRING SHOWN IS BASED ON THE RELAYS LISTED IN THE LEGEND.
- 8. PANEL DOOR LAYOUT IS REPRESENTATIVE. FOR ACTUAL DOOR LAYOUT SEE DWG 227381 SH1.
- 9. SHOWN ARE THE WIRING CONNECTIONS TO THE EARTH BAR FOR TX No.1 TRANSFORMATION PANEL IN FIRST PROTECTION CABINET. THE EARTH BAR IS COMMON TO TX No.1 & TX No.2 PROTECTION PANELS. IN THE SECOND PROTECTION CABINET, THE EARTH BAR IS COMMON TO TX No.3, CUSTOMER OC No.1 AND CUSTOMER No.2 PROTECTION PANELS.
- 10. FOR INTER-PANEL WIRING THE WIRE DESTINATIONS ARE PREFIXED WITH THE DESTINATION PANELS ABBREVIATION. FOR EXAMPLE "P1 TR2AE" MEANS IT WILL TERMINATE IN THE FIRST TX PROTECTION PANEL ON THE TR2A RELAY. TERMINALS A-E SEE PANEL ABBREVIATION TABLE.
- 11. LINK 6B & RELATED WIRING REQUIRED ONLY WHERE CUSTOMER No2 DC PROTECTION IS INSTALLED.

TRANSFORMER PROTECTION PANEL (FRONT VIEW)



PANEL ABBREVIATION TABLE	DESCRIPTION
P1	FIRST TRANSFORMER PROTECTION PANEL
P2	SECOND TRANSFORMER PROTECTION PANEL
P3	THIRD TRANSFORMER PROTECTION PANEL
OC1	CUSTOMER OVERCURRENT No 1 PROTECTION PANEL
OC2	CUSTOMER OVERCURRENT No 2 PROTECTION PANEL

TAGNAME	MFG	CATNO	DESC	REF DWG
BL-LK-TL	EUROGAP	MULDIED TYPE MS	BATT/TEST LINK	50771
CA	IEEC	RIB5-810 8V DC	AUXILIARY RELAY WITH BASE SHD8-05C	18775
C-OC1-C-OC2	SCHNEIDER ELECT.	MCDM P142	OVERCURRENT & EARTH FAULT RELAY	224809
DIFF	-	K3M	3 ELEMENT FUSE RELAY	113243
EB	-	-	EARTH BAR	PANEL EARTH BAR
FSA-L5B	ALSTOM	RS2P B14x	FUSE - 2 STUD BACK CONNECTED	225582
LV-DCKEF-A	SCHNEIDER ELECT.	MCDM P15	OVERCURRENT & EARTH FAULT RELAY	225582
PIR	RMS	PIR	PILOT INTERLOCK RELAY	53829
TRIA, TR2A	RMS	TR12-BD-22	LATCHING MULTITRIP RELAY 32V DC	223206 SH1 & 2
TR1B, TR2B	RMS	TR12-CD-22	LATCHING MULTITRIP RELAY 48V DC	223206 SH1 & 2
TXP-B	SCHNEIDER ELECT.	SL1-70	TRANSFORMER PROTECTION RELAY	223206 SH1 & 2
TI-1	RMS	3A32K27	TRIP INDICATOR (TS-102 240V)	103399
MULTI CONNECT (RS COMPONENTS)	SLB4-G	INSULATED TEST PANEL SOCKETS	1 x RED 23 3022 21 (44-241) 1 x WHITE 23 3022 21 (44-250) 1 x BLUE 23 3022 21 (44-270) 1 x BLACK 23 3022 21 (44-280)	231226
X1, X3, X6, X7, X10, X50	UTILUX	3820	RAIL MOUNTED TERMINAL	118547
X2	UTILUX	H2238	RAIL MOUNTED TERMINAL - ORANGE	-
X4	WEIDMULLER	SAK 2 S	RAIL MOUNTED TERMINAL CAT No. 27966	-
X5	WEIDMULLER	ASKI	RAIL MOUNTED FUSE CAT No. 33676	-
X8	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.41226	-

FOR ARRANGEMENTS WITH OIL TYPE TRANSFORMERS SEE 227383 SH2

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DESIGNED	-
DRAWN	E.KAIRONZ
CHECKED	L.MARTINUZZI
APPROVED	M.BENNETT
DATE	04/02/2015
TRM REF	-
PROJECT NUMBER	-

ISSUED FOR CONSTRUCTION

CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, DRY TYPE TX, AND OPTICAL ARC FLASH DETECTION TRANSFORMER PROTECTION PANEL WIRING DIAGRAM

DRAWING No. **227383** SHEET 1 AMD 2 SIZE A0

CS&P - DISTRIBUTION SUBS

CAD DRAWING
NO. 2438
NAME: E.KAIRONZ
CHECKED: E.KAIRONZ
APPROVED: E.KAIRONZ

1. BOMBARDIER
2. BEINER (SEE REFERENCE DRAWINGS)
3. L.MARTINUZZI
4. L.MARTINUZZI

1. BOMBARDIER & TILBERG (UPDATED)
2. BEINER (SEE REFERENCE DRAWINGS)
3. L.MARTINUZZI
4. L.MARTINUZZI

TYPE: PROJECT
PROJECT: "WAS" BACK WIRING