



FOR CONNECTIONS SEE DRAWING 227385 Sh1

1. ALL PANEL WIRING IS TO BE AS USED HERE:
 a. DC WIRING IS TO BE 7/0,50, 0.6KV GRADE PVC INSULATED COLOURED GREY.
 b. EARTH WIRING IS TO BE 7/0,67, 0.6KV GRADE PVC INSULATED COLOURED GREEN/YELLOW (Y/G).
 c. A PHASE CT AND AC WIRING IS TO BE 7/0,67, 0.6KV GRADE PVC INSULATED COLOURED RED (R).
 d. B PHASE CT AND AC WIRING IS TO BE 7/0,67, 0.6KV GRADE PVC INSULATED COLOURED WHITE (W).
 e. C PHASE CT AND AC WIRING IS TO BE 7/0,67, 0.6KV GRADE PVC INSULATED COLOURED BLUE (B).
 f. EARTH CT AND NEUTRAL AC WIRING IS TO BE 7/0,67, 0.6KV GRADE PVC INSULATED COLOURED BLACK (BK).
2. 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.
3. 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.
4. FOR INTER-PANEL WIRING THE WIRE DESTINATIONS ARE PREFIXED WITH THE DESTINATION PANELS ABBREVIATION. FOR EXAMPLE "P2 X11" MEANS IT WILL TERMINATE IN THE SECOND TX PROTECTION PANEL ON THE X1 TERMINAL RAIL. TERMINAL 1, SEE PANEL ABBREVIATION TABLE.
5. PANEL TERMINAL LAYOUT IS REPRESENTATIVE, FOR ACTUAL LAYOUT SEE DWG 227381 SH1
6. CABLES 17, 21, & 3T, REQUIRED WHERE OIL TRANSFORMER HAS BUCHHOLZ RELAY.

TAGNAME	MFG	CATNO	DESC	REF_DWG
X1, X2, X6, X7, X10, X50	UTILUX	3820	RAIL MOUNTED TERMINAL	118547
X13 PHOENIX	UT	10 0G 346281	FEED-THROUGH TERMINAL BLOCK	-
X4 WEIDMULLER	SAK	Z5	RAIL MOUNTED TERMINAL CAT No 27966	-
X5 WEIDMULLER	ASK1		RAIL MOUNTED FUSE CAT No 37676	-
X5 WEIDMULLER	SAKR		RAIL MOUNTED ISOLATING TERM CAT No 47226	-
LEGEND				

TITLE	DWG NO.
EPOXY RESIN ENCASED PROTECTION CURRENT TRANSFORMER OUTLINE AND DETAILS	105990
RMW SUBSTATION OPTIC E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION FIBRE LOOPING AND GENERAL MOUNTING DETAILS	227359 501
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND O4F CUSTOMER ACB INTERNAL WIRING AND CAB PANEL CONTROL WIRING SCHEMATIC	227359 502
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND O4F TRANSFORMER ACB INTERNAL WIRING AND CAB PANEL CONTROL WIRING SCHEMATIC	227359 503
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, O4F, & CUSTOMER DC N61 PROTECTION, DISTRIBUTION AUTOMATION CONTROL, PANEL WIRING & CABLING DIAGRAM	227359 504
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, O4F, & CUSTOMER DC N61 & N62 PROTECTION, DISTRIBUTION AUTOMATION CONTROL, PANEL WIRING & CABLING	227359 505
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND O4F DISTRIBUTION LOCAL AUTOMATION CONTROL, PANEL LAYOUT AND LABEL DETAILS	227388 501
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND O4F 500kVA TXS & S VENTILATION FAN AC SERVICE BOARD LAYOUT, WIRING, & CONNECTIONS	227387 501
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227386 502
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLEING DIAGRAM	227351 501
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND O4F CUSTOMER DC N1 & N2 PROTECTION PANEL WIRING AND CABLE CONNECTIONS	227385 501
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, DR1, TYPE TX, & O4F, TRANSFORMER PROTECTION PANEL CABLE CONNECTION DIAGRAM	227384 502
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, DR1, TYPE TX, & O4F, TRANSFORMER PROTECTION PANEL CABLE CONNECTION DIAGRAM	227384 501
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, DR1, TYPE TX, & O4F, TRANSFORMER PROTECTION PANEL WIRING DIAGRAM	227383 502
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, DR1, TYPE TX, & O4F, TRANSFORMER PROTECTION PANEL WIRING DIAGRAM	227383 501
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD & O4F TRANSFORMERS AND CUSTOMER OVERCURRENT PROTECTION FREE STANDING PANELS LABEL DETAILS	227382 501
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD & O4F TRANSFORMERS AND CUSTOMER OVERCURRENT PROTECTION FREE STANDING PANELS LABEL DETAILS	227382 502
CITY DISTRIBUTION SUBS WITH E TYPE LV BOARD AND O4F, DLAC PANEL SCHEMATIC, GENERAL DC SUPPLIES INTER-PANEL, WIRING, FIBRE COMPS & CABLING DIAGRAM	227380 501
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CUSTOMER OVERCURRENT DC SCHEMATIC	227380 503
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD & OPTICAL ARC FLASH DETECTION TRANSFORMER DC SCHEMATIC	227380 502
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION AC SCHEMATIC	227380 501

REFERENCE DRAWINGS

 Ausgrid 24 Campbell Street SYDNEY NSW 2000 P: 9272 3805	SALE	NTS	CITY DISTRIBUTION SUBSTATIONS				
	DESIGNED	-	WITH E TYPE LV BOARD & OIL TYPE TX				
	DRAWN	E.KAIROUZ	& OPTICAL ARC FLASH DETECTION				
	CHECKED	L.MARTINUZZI	TRANSFORMER PROTECTION PANEL				
	APPROVED	M.BENNETT	CABLE CONNECTION DIAGRAM				
	DATE	04/02/2015					
ISSUED FOR CONSTRUCTION ISSUE	TRIM REF	-	DRAWING No	227384	SHEET 2	AMD 2	SIZE A0

FOR ARRANGEMENT WITH DRY TYPE
TRANSFORMERS SEE 227384 Sh1

A M E N D M E N T S						
NO	DATE	DESCRIPTION	DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY
1	19/09/2024	UPDATED DRAWING BORDER ADDED	S.M.	S.M.	M.B.	M.B.
2	10/09/2025	DRAWING BORDER UPDATED: UTILUX H238 ORANGE RAIL MOUNTED TERMINALS REPLACED BY PHOENIX (UT 60 304/308 FEET, THROUGH TERMINAL 10 172)	S.M.	H.O.	M.B.	M.B.