



INSET
LINK ARRANGEMENTS TO BE DETERMINED BY REQUIREMENTS
SEE NOTE 1
SCALE 15

ONLY TO BE INSTALLED WHERE REQUIRED - SEE NOTE 2 & NOTE 7

TITLE	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, & 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 OPTICAL ARC FLASH DETECTION, 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	227382 SH1
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, DRY 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, DRY TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL CABLE CONNECTION DIAGRAM	227384 SH2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CUSTOMER DC No.1 (G. 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 AND OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227386 SH2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD 1500V/VA 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 DC No.1 & No.2 PROTECTION, DISTRIBUTION AUTOMATION CONTROL PANEL WIRING & CABLING DIAGRAM	227389 SH1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OAFD, & CUSTOMER DC No.1 PROTECTION, DISTRIBUTION AUTOMATION CONTROL PANEL WIRING & CABLING DIAGRAM	227389 SH2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD CUSTOMER 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
RMCB SUBSTATIONS WITH E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION FIBRE LOOPING AND GENERAL MOUNTING DETAILS	227395 SH5
DISTRIBUTION SUBSTATIONS SCHNEIDER E TYPE LV BOARD ACB INCOMING PANEL MODIFICATIONS TO MANUFACTURERS WIRING DIAGRAM	228882 SH2
E TYPE LV BOARD MERLIN GERIN MASTRIPAC TP AIR CIRCUIT BREAKERS EXTERNAL CONNECTIONS FOR AFD DIST. SUBSTATIONS	227357 SH1
E TYPE LV BOARD ACCEPTABLE COMBINATIONS	192590
EPOXY RESIN ENCASED PROTECTION CURRENT TRANSFORMER OUTLINE AND DETAILS	125190

TAGNAME	MFG	CATNO	DESC	REF_DWG
BL, LK, TL	EUGAQUIP	MOULDED TYPE MS	BATTERY/TEST LINK	507111
CA	IDEC	RH2B-ULD 48V DC	OVERCURRENT & EARTH FAULT RELAY	169175
C-OC1 (& C-OC2 IF REQUIRED)	SCHNEIDER ELECT.	MECH P142	3 ELEMENT FUSE RELAY	112343
DIFF	KM	DIFF	DIFF	-
EB	-	EARTH BAR	PANEL EARTH BAR	-
FSA, FSB	ALSTOM	RS20P Black	FUSE - 2 STUD BACK CONNECTED	-
LV OCAF-A	SIEMENS	7SR450L-2H020-1AA0	OVERCURRENT & EARTH FAULT RELAY	260111
PIR	RMS	PIR	PILOT INTERLOCK RELAY	53829
TR1A, TR2A	RMS	TR12-80-22	LATCHING MULTITRIP RELAY 32V DC	223206 SH1 & 2
TR1B, TR2B	RMS	TR12-10-22	LATCHING MULTITRIP RELAY 48V DC	223206 SH1 & 2
TXP-B	SCHWEITZER	SEL-7514	TRANSFORMER PROTECTION RELAY	223254
TI-1 (ONLY IF REQUIRED)	RMS	3A32K37	TRIP INDICATOR TI-3 (0.2 on)	123399
VTT	MULTI CONNECT (RS COMPONENTS)	SL84-G	INSULATED TEST PANEL SOCKETS 1 x RED 23 3020 22 (140-244) 1 x WHITE 23 3020 29 (140-250) 1 x BLUE 23 3020 23 (140-246) 1 x BLACK 23 3020 21 (140-200)	231226
X1, X3, X6, X7, X10, X50	UTILIX	3820	RAIL MOUNTED TERMINAL	118547
X2	UTILIX	112338	RAIL MOUNTED TERMINAL - ORANGE	-
X4	WEIDMULLER	SAK 2.5	RAIL MOUNTED TERMINAL CAT No. 27966	-
X5	WEIDMULLER	ASK1	RAIL MOUNTED FUSE CAT No. 37676	-
X5	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No. 61206	-

AMD	DATE	DESCRIPTION	DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY
0	24/02/2015	INITIAL ISSUE	-	L.M./E.K.	L.M.	M.B.
1	19/09/2024	REPLACED SCHNEIDER P115 WITH SIEMENS 7SR450L IN LEGEND & PANEL LAYOUT.	L.M.	L.M.	M.B.	M.B.

- NOTES:**
- THIS DRAWING SHOWS FREE STANDING TRANSFORMER & CUSTOMER OVERCURRENT PROTECTION PANELS LAYOUTS FOR CITY DISTRIBUTION SUBSTATIONS WITH OPTICAL ARC FLASH DETECTION & CUSTOMER CO-GENERATION INSTALLED.
 - CUSTOMER OVERCURRENT PROTECTION PANEL MAY BE EITHER SINGLE OR DUAL TYPE AS SHOWN. IT WILL BE DETERMINED BY THE SUBSTATION DESIGN INFORMATION PACKAGE.
 - FOR DUAL CUSTOMER OVERCURRENT PROTECTION PANELS, WHERE SHOWN A 5mm BLACK LINE SHALL BE PAINTED ON THE FRONT AND REAR OF THE PANEL DOOR. IT SHOWS THE SEGREGATION BETWEEN CUSTOMER OVERCURRENT No.1 PANEL (TOP) AND CUSTOMER OVERCURRENT No.2 PANEL (BOTTOM).
 - ALL DIMENSIONS ARE IN MILLIMETRES.
 - LINKS SHOULD BE MOUNTED SO THAT THE MOVABLE LINK FALLS OPEN WHEN RELEASED.
 - TERMINALS AND RELAY CONNECTIONS ARE TO BE FITTED WITH CAUTION LABELS TO WARN OF THE 415V AC HAZARD. ANY EXPOSED TERMINALS ARE TO BE APPROPRIATELY COVERED. SELF ADHESIVE CAUTION LABELS ARE TO BE FIXED TO THE REAR OF THE PANEL DOOR. THESE LABELS ARE TO READ:
 - ANY ASPECTS OF THE PANEL LAYOUTS THAT ARE NOT REQUIRED ARE TO BE OMITTED. REFER TO DESIGN INFORMATION PACKAGE FOR DETAILS.
 - CUSTOMER OVERCURRENT No.2 LAYOUT ARRANGEMENT IS TO BE INSTALLED ONLY WHEN INCLUDED IN THE DESIGN PACKAGE.
 - LINK 4B & TI-1 RELAY ARE REQUIRED WHERE DRY TYPE TRANSFORMERS ARE INSTALLED.
 - LINK 4B & TI-1 RELAY ARE REQUIRED WHERE OIL TYPE TRANSFORMERS WITH BUCHHOLZ PROTECTION ARE INSTALLED.
 UNREQUIRED ITEMS ARE TO BE EITHER NOT INCLUDED IN THE PANEL DRILLING PROCESS, OR TO BE COVERED BY MEANS OF PLUGS FOR DRILLED HOLES OR BY A BLANKING COVER PLATE.
 - FOR PANEL SPECIFICATIONS SEE DRAWING 205952 SH2.

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SCALE	AS SHOWN
DESIGNED	-
DRAWN	L.MARTINUZZI / E.KAIROUZ
CHECKED	L.MARTINUZZI
APPROVED	M.BENNETT
DATE	24/02/2015
TRIM REF	-
PROJECT NUMBER	OPEX-6923-1

CITY DISTRIBUTION SUBSTATIONS WITH OPTICAL ARC FLASH DETECTION (E TYPE LV) TRANSFORMERS AND CUSTOMER OVERCURRENT FREE STANDING PANELS LAYOUT DETAILS

DRAWING No. **227381** SHEET 1 AMD 1 SIZE A0