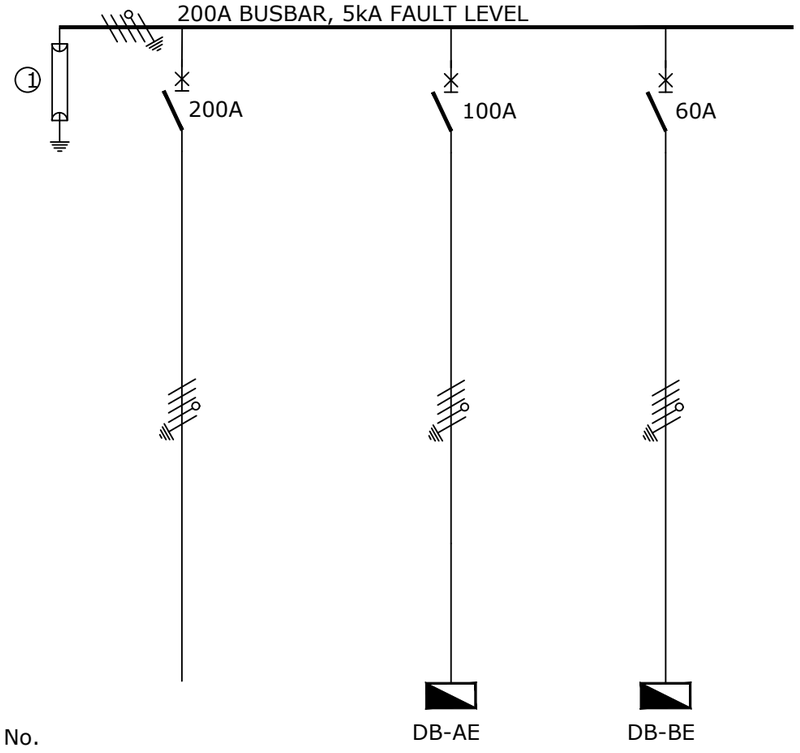


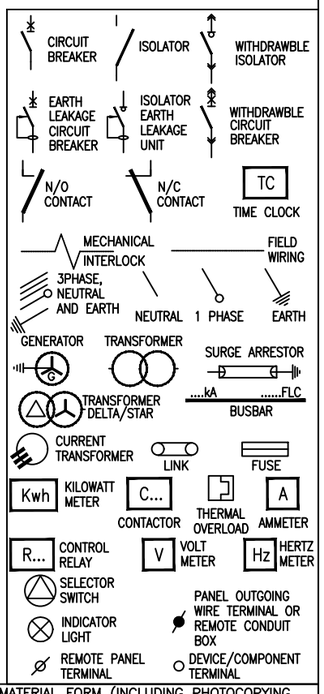
1 CLASS 1 SURGE ARRESTOR

NOTES

1) DROPPERS/TAILS TO BE RATED FOR FULL i^2t LET THROUGH.
2) HARNESSED WIRING TO BE DERATED.
3) TUFFNOL BRACES ARE NOT TO BE USED ABOVE 10kA.
4) COPPER BUSBARS TO BE CONTINUOUS RATED.
5) SUFFICIENT SPACE REQUIRED FOR SAFE ACCESS FOR REWIRING.
6) EARTH AND NEUTRAL BARS TO BE EASILY ACCESIBLE.
7) ALL CIRCUIT BREAKERS TO BE FITTED WITH TERMINAL SHIELD ON LIVE AND LOAD SIDES.
8) ENCLOSURE TO BE IP54.
9) PHASING RWB, TOP TO BOTTOM, LEFT TO RIGHT, BACK TO FRONT.
10) INTERNAL TEMP TO BE LIMITED TO 5° ABOVE AMBIANT, MAX 40°C.
11) ALL CIRCUITS TO BE LABELED.
12) 25% SPARE SPACE. SPARE SPACES ARE TO BE FITTED WITH COPPER BUSBAR TAILS CONNECTED TO DROPPER BUSBARS TO ALLOW INSTALLATIONOF CIRCUIT BREAKERS WITH A MINIMAL SHUTDOWN PERIOD.
13) DB TO BE FITTED WITH A4 LEGEND CARD HOLDER WITH STANDARD IBUYA A4 LEGEND CARD.
14) EACH CIRCUIT TO BE LABELED WITH DETAILED DESCRIPTION OF CONNECTED DEVICE.
15) EXTERNAL EARTH STUD MOUNTED ADJACENT CABLE ENTRY.

INCOMING CABLE	-BOTTOM
OUTGOING CIRCUITS	-TOP/BOTTOM
COLOUR	-ORANGE
MOUNTING	-SURFACE
ACCESS	-FRONT
PROTECTIVE DEVICES	-SCHNEIDER
ACB's (1250A-4000A)	-MASTERPACT NW
MCCB'S(800A - 1000A)	-COMPACT NS
MCCB'S(60A-630A)	-EASYPACT CSV
MCB's	-MULTI 9, TYPE 2
CONTACTORS	-AC3 HEAVY DUTY

FIELD			
CIRCUIT No.			
PHASE			
DESIGNATION	INCOMER FROM MANUAL CHANGE-OVER PANEL		
WIRING	2x95mm² 4C PVC SWA PVC ECC Cu CABLE	35mm² 4C PVC SWA PVC ECC Cu CABLE	25mm² 4C PVC SWA PVC ECC Cu CABLE
CABLE NO.			
LOAD (AMPS)			
No. OF POINTS			



Approved in Principle
Justin McKelvie-King
Pr Eng : 20120548

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REV	DESCRIPTION	BY	DATE	CHKD.
0	Original Issue	CW	13/09/24	MK

ENGINEER	DRAWN	DATE:	SCALE:	CHKD.
MK	CW		n.t.s	MK
			PAPER SIZE: A3	

PROJECT No.	DRAWING No.	SHEET:	REV.
32307	406		0

File Name : 32307_406 Lyr:

TITLE
Makhaza Police Station
Electrical Installation

DRAWING TITLE:
DB-Inverter Load
Single Line Diagram