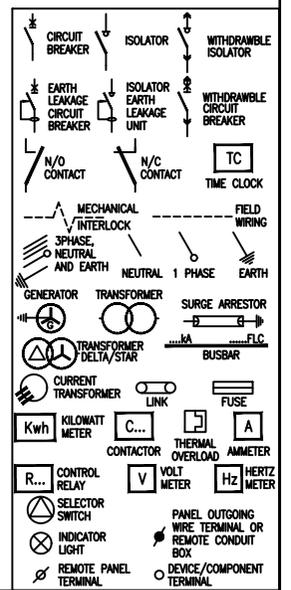


- NOTES**
- CLASS 2 SURGE ARRESTOR
  - DROPPERS/TAILS TO BE RATED FOR FULL PLET THROUGH.
  - HARNESSED WIRING TO BE DERATED.
  - TUFFNOL BRACES ARE NOT TO BE USED ABOVE 10kA.
  - COPPER BUSBARS TO BE CONTINUOUS RATED.
  - SUFFICIENT SPACE REQUIRED FOR SAFE ACCESS FOR REWIRING.
  - EARTH AND NEUTRAL BARS TO BE EASILY ACCESSIBLE.
  - ALL CIRCUIT BREAKERS TO BE FITTED WITH TERMINAL SHIELD ON LIVE AND LOAD SIDES. ENCLOSURE TO BE IP54.
  - PHASING RWB, TOP TO BOTTOM, LEFT TO RIGHT, BACK TO FRONT.
  - INTERNAL TEMP TO BE LIMITED TO 5° ABOVE AMBIANT, MAX 40°C.
  - ALL CIRCUITS TO BE LABELED.
  - 25% SPARE SPACE. SPARE SPACES ARE TO BE FITTED WITH COPPER BUSBAR TAILS CONNECTED TO DROPPER BUSBARS TO ALLOW INSTALLATION OF CIRCUIT BREAKERS WITH A MINIMAL SHUTDOWN PERIOD.
  - DB TO BE FITTED WITH A4 LEGEND CARD HOLDER WITH STANDARD IBUYA A4 LEGEND CARD.
  - EACH CIRCUIT TO BE LABELED WITH DETAILED DESCRIPTION OF CONNECTED DEVICE.
  - EXTERNAL EARTH STUD MOUNTED ADJACENT CABLE ENTRY.
- INCOMING CABLE -TOP/BOTTOM  
 OUTGOING CIRCUITS -TOP/BOTTOM  
 COLOUR -ORANGE (N/E)  
 MOUNTING -RED (E)  
 ACCESS -SURFACE  
 -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



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PROJECT No.	DRAWING No.	SHEET:	REV.	
23044	405	1 of 5	0	
REV	DESCRIPTION	BY	DATE	CHKD.
0	Original Issue	NG	27/05/25	KS

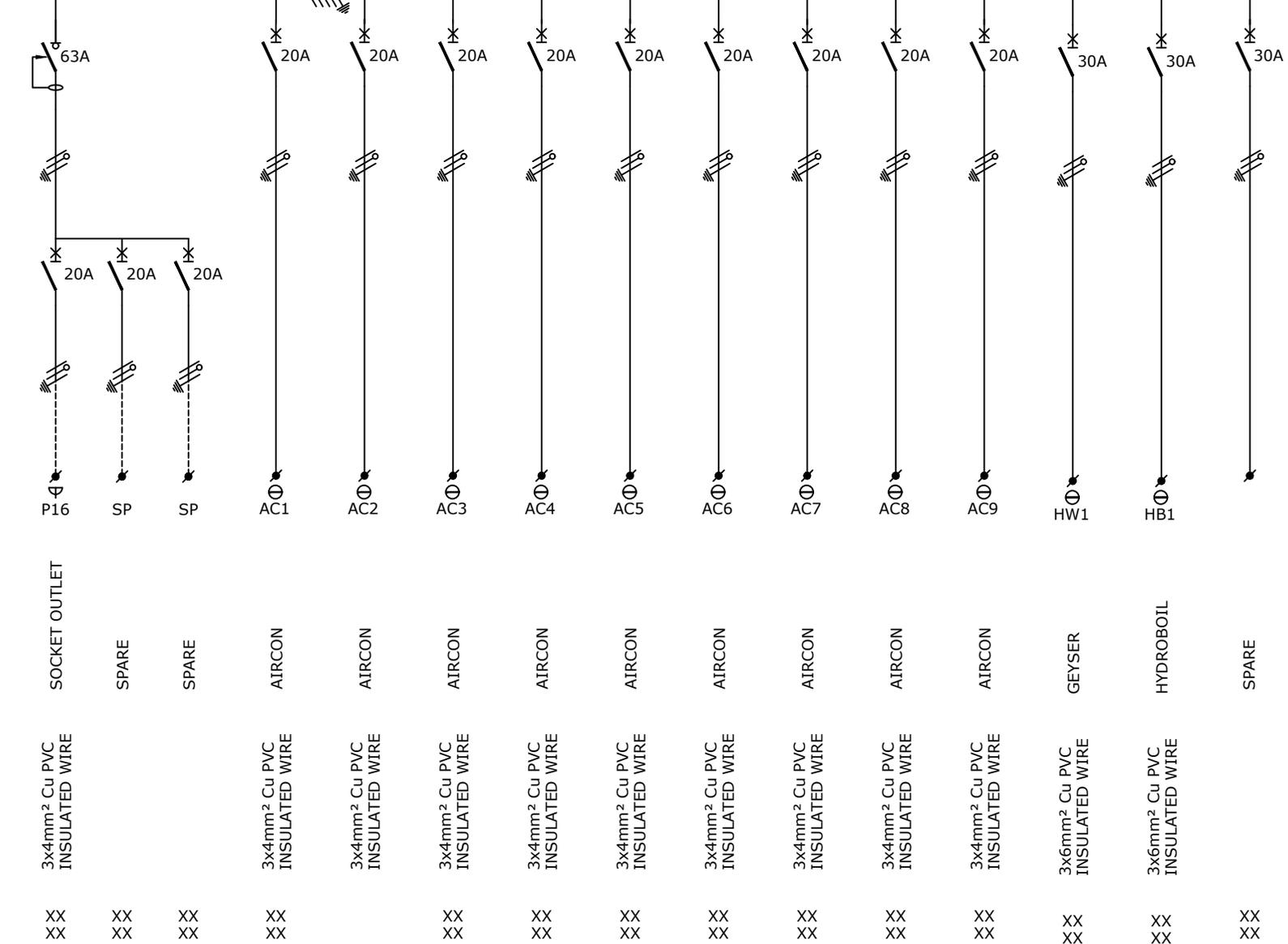
DRAWING TITLE:	SAPS MSINSINI POLICE STATION
DRAWING TITLE:	DB - C / CE Single Line Diagram

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FROM SHEET 1 60A BUSBAR, 5KA FAULT LEVEL TO SHEET 3



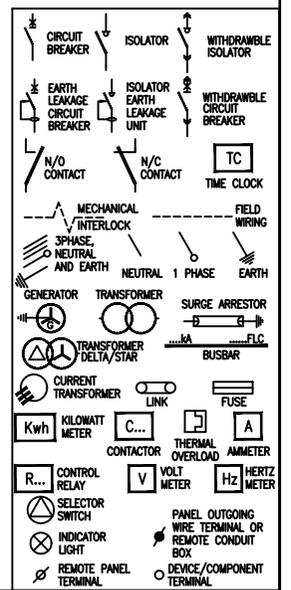
① CLASS 1 SURGE ARRESTOR

**NOTES**

- 1) DROPPERS/TAILS TO BE RATED FOR FULL P.L.T THROUGH.
- 2) HARNESSED WIRING TO BE DERATED.
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- 15) EXTERNAL EARTH STUD MOUNTED ADJACENT CABLE ENTRY.

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

UPS / INVERTER SECTION  
NON-ESSENTIAL SECTION  
MECHANICAL BARRIER



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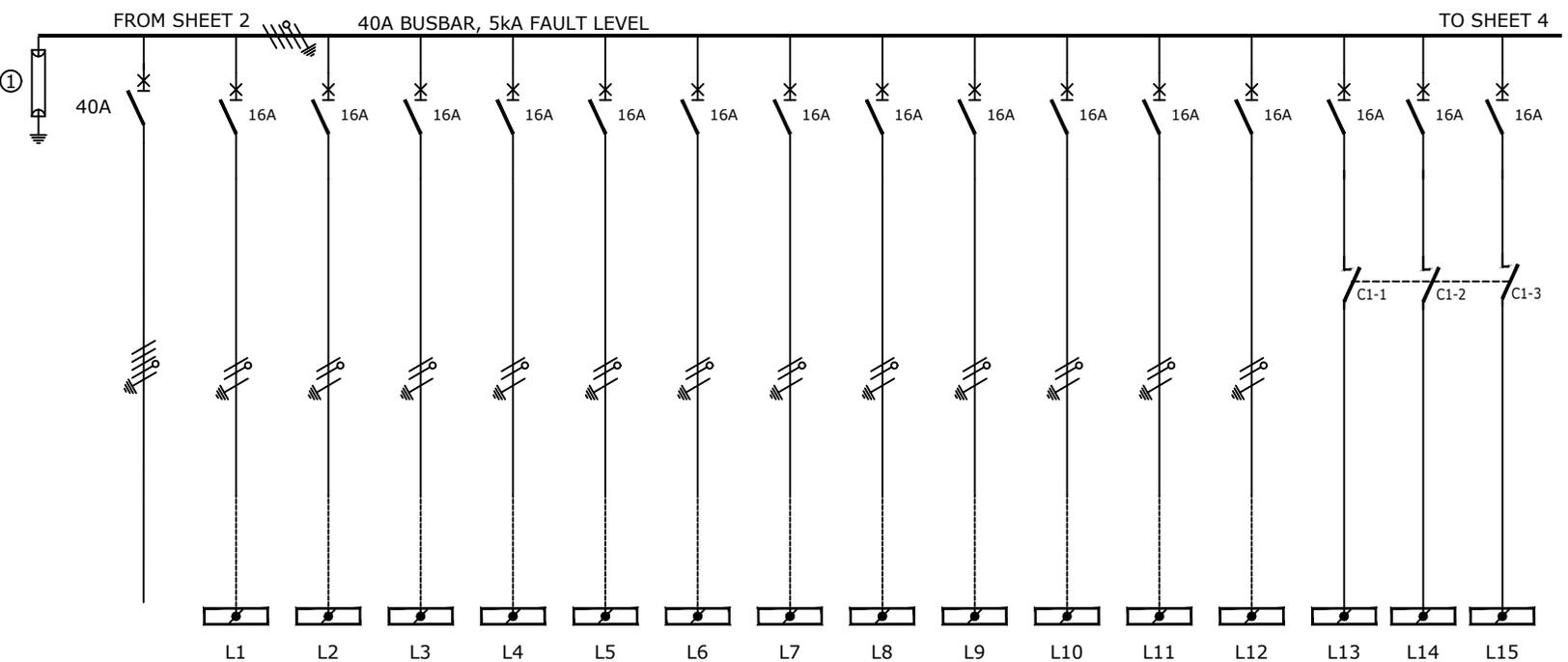
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  - 14) EACH CIRCUIT TO BE LABELED WITH DETAILED DESCRIPTION OF CONNECTED DEVICE.
  - 15) EXTERNAL EARTH STUD MOUNTED ADJACENT CABLE ENTRY.
- INCOMING CABLE -TOP/BOTTOM  
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 MCCB'S(60A-630A) -EASYPACT CSV  
 MCB'S -MULTI 9, TYPE 2  
 CONTACTORS -AC3 HEAVY DUTY

INCOMER FROM INVERTER LOAD DB

16mm<sup>2</sup> 4C PVC SWA PVC ECC Cu CABLE

L1 LIGHTS

3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX

L2 LIGHTS

3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX

L3 LIGHTS

3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX

L4 LIGHTS

3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX

L5 LIGHTS

3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX

L6 LIGHTS

3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX

L7 LIGHTS

3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX

L8 LIGHTS

3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX

L9 LIGHTS

3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX

L10 LIGHTS

3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX

L11 LIGHTS

3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX

L12 LIGHTS

3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX

L13 EXTERNAL LIGHTS

3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX

L14 EXTERNAL LIGHTS

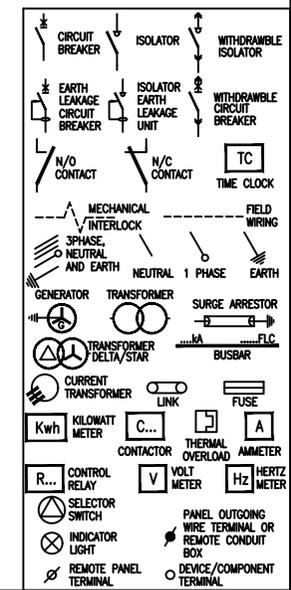
3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX

L15 EXTERNAL LIGHTS

3x2.5mm<sup>2</sup> Cu PVC INSULATED WIRE

XX  
XX



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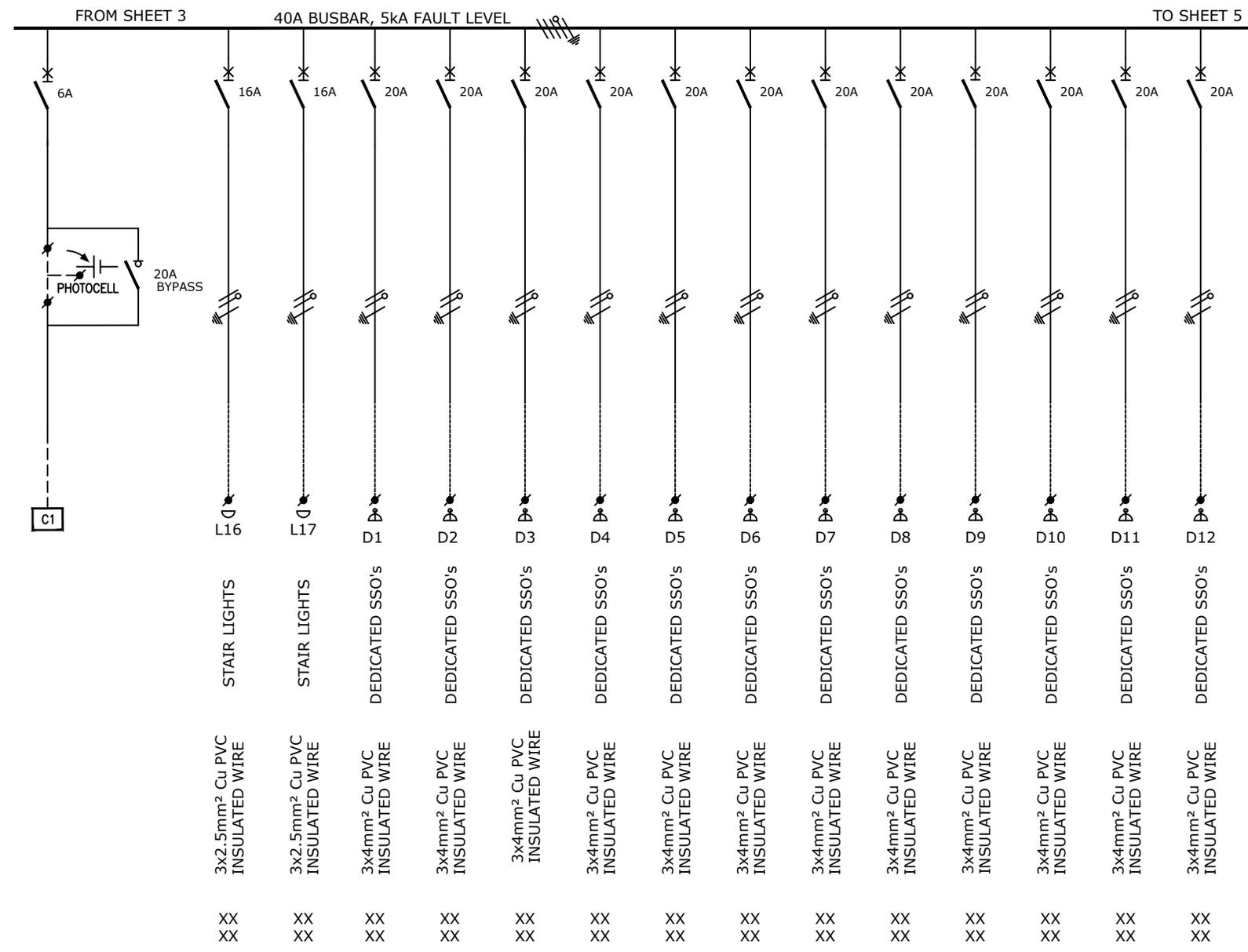
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23044	405	3 of 5	0	
REV	DESCRIPTION	BY	DATE	CHKD.
0	Original Issue	NG	27/05/25	KS

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DRAWING TITLE:	DB - C / CE Single Line Diagram

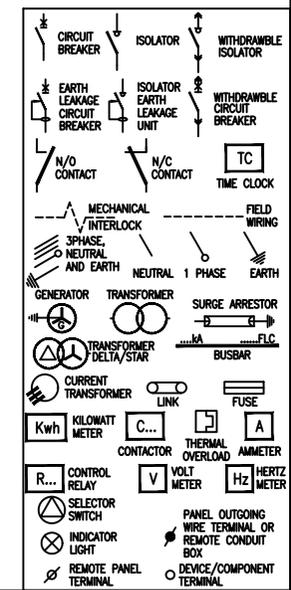
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- NOTES**
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  - 14) EACH CIRCUIT TO BE LABELED WITH DETAILED DESCRIPTION OF CONNECTED DEVICE.
  - 15) EXTERNAL EARTH STUD MOUNTED ADJACENT CABLE ENTRY.
- INCOMING CABLE -TOP/BOTTOM  
OUTGOING CIRCUITS -TOP/BOTTOM  
COLOUR -ORANGE (N/E)  
MOUNTING -RED (E)  
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MCB's -MULTI 9, TYPE 2  
CONTACTORS -AC3 HEAVY DUTY



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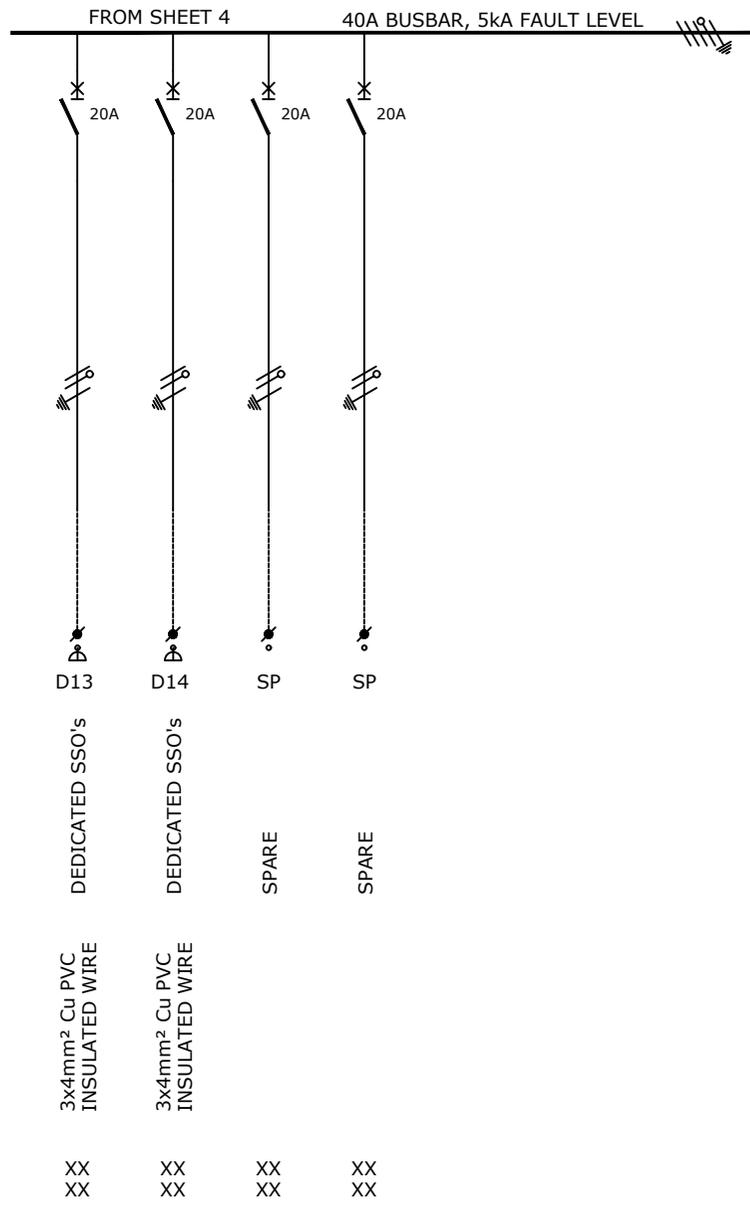
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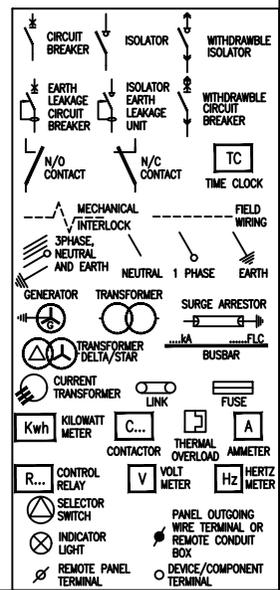
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E-mail: ibuya@ibuya.co.za

1 2 3 4 5 6 7 8



NOTES

- 1) CLASS 1 SURGE ARRESTOR
  - 1) DROPPERS/TAILS TO BE RATED FOR FULL P<sub>L</sub> 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.
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