



LV Double Feeder Main Switchboard IDMT- Cubicle Type Main Switchboard Demonstrator (Double Feeder)

Category: Electrical Engineering · Model reference: MZM-4015



SPECIFICATIONS

TECHNICAL SPECIFICATION :

1. Busbar Coupler / BusTie

1 no. Air Circuit Breaker 1000 Amp, 45 kA, 4 pole, draw out type, manual spring charge, c/w Mechanical & Electrical Interlock.

INCOMER A

Input Rating : 3 phase, 400V AC 50 Hz

1 no. Air Circuit Breaker 1000 Amp, 45kA TPN, draw out type , manual spring charge , c/w Mechanical & Electrical Interlock

Output : 2 x 32A TPN Switch Fuse, 25kA 2 x 32A TPN MCCB, 25kA 2 x 63A Fuse Switch , 25kA 1 x distribution board c/w 4 x 6A MCB, 6k A 2 x 32A MCB, 6kA 1 x 40A Main Switch SPN, 25kA 1 x 40A RCCB DP (100 mA) spare compartment

Instruments Digital Power Meter Detection Method : True RMS Display : LCD Detect Frequency (Hz) : 45 - 65 Input Current Range : 5mA - 10A Input Voltage Range : 0 - 300v AC Mounting : Panel / DIN Rail Communication : ModbusRTU/Modbus TCP/IP Built - in Webserver.

Protective Devices

- 1 x Earth Fault Relay
- 1 set x Protective Device IDMT (Electronic Type)
- 1 set x Copper Busbars (6.3 mm x 100 mm)(CT's - for Protective Devices - Size 1000/5A, Class 10 P10,15VA)

Capacitor Bank

- 1 x Power Factor Regulator minimum 6 step c/w built in CT's (Current Transform)
- 2 x 5 kVAR Capacitor Bank
- 2 x 10 kVAR Capacitor Bank
- 2 x 15 kVAR Capacitor Bank
- (CT's - for Capacitor Bank - Size 1000/5A, Class 1, 15 VA)

INCOMER B

Input Rating : 415 V AC, 3 phase

1 no. Air circuit Breaker 1000 Amp, 45kA. TPN, draw out type, manual spring change , c/w Mechanical & Electrical

Output :

- 2 x 32 A TPN Switch Fuse, 25kA
- 2 x 32 A TPN MCCB, 25 kA
- 2 x 63 A Fuse Switch, 25 kA
- 1 x distribution board c/w
- 4 x 6 A MCB, 6 kA

2 x 20 A MCB, 6 kA

2 x 32 A MCB, 6 kA

1 x 40 A Main Switch SPN, 25 kA

1 x 40 A RCCB DP (100 mA)

Spare Compartment

Instruments

1 x Ammeter c/w selector switch 0 - 1000 A

1 x Voltmeter c/w selector switch 0 - 500 V

1 x Power Factor Meter

1 set x Indicating lights

(CT's - for instruments - Size 1000/5A, Class 1, 15VA)

Protective Devices

1 x Earth Fault Relay

1 set x Protective Device IDMT (Mechanical Type)

1 set x Copper Busbar (6.3 mm x 100 mm)

(CT's - for Protective Devices - Size 1000/5A, Class 10P10, 15 VA)

Capacitor Bank

1 x Power Factor Regulator minimum 6 step c/w built in CT's (Current Transform)

2 x 5 kVAR Capacitor Bank

2 x 10 kVAR Capacitor Bank

2 x 15 kVAR Capacitor Bank

(CT's - for Capacitor Bank - Size 1000/5A, Class 1, 15 VA)

Attached :

i) Schematic diagram of switchboard

ii) Switchboard general arrangement

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