LV Main Switchboard Electro-Magnetic IDMT

Category: Electrical Engineering · Model reference: MZM-4007



SPECIFICATIONS

TECHNICAL SPECIFICATION :
1. Input rating : 3 Phase, 400V AC, 50Hz
1 no. Air Circuit Breaker 600 Amp, 25kA TPN, draw out type, manual spring charge c/w Mechanical and Electrical Interlock
2. Output :
2 x 32 A TPN Switch Fuse
2 x 32 A TPN MCCB2 x 63 A Fuse Switch
1 x Distribution board c/w
4 x 6 A MCB
2 x 20 A MCB
2 x 32 A MCB
1 x 40 A Main Switch SPN
1 x 40 A RCCB DP (100mA)
Spare compartment
3. Instruments :
1 x Ammeter c/w selector switch 0 – 500 A
1 x Voltmeter c/w selector switch 0 – 500 V
1 x Power Factor Meter
1 set x Indicating Lights
1 x kWh meter 3 phase (digital type)
4. Proactive Devices :
1 x Earth Fault Relay
1 set x Protective Device IDMT O/C (Mechanical Type)
5. Capacitor Bank
1 x Power Factor Regulator minimum 5 step c/w built in Current Transformer)
1 x 200 A MCCB – for Capacitor Bank busbar
2 x 30 A MCCB – for 2 x 10 kVAR Capacitor Bank
2 x 45 A MCCB – for 2 x 15 kVAR Capacitor Bank
1.6 Safety Equipment
a. 1 No. of Rubber Mate 1000V
(Standard size - for MSB)
b. 1 No. of Safety Helmet.
c. 1 Pair of Leather Glove 1000V
d. Caution notice (1 No. of "AWAS", 3 No. of "DANGER", 3 No. of "BAHAYA", 3 No. "WORK IN PROGRESS") refer to Electrical Regulation 1994 (Regulation 38)
e. Labelling - All Part Instrument Panel I equipment such as Breaker, Metering, Protection Devices, outgoing, Capacitor Bank and others.
f. Both feeder must be connected to four hour artificial loading unit to show the increasing I decreasing the current only.
g. CPR chart refer to Electrical Regulation 1994 (Regulation 39) and CO2 fire extinguisher refer to Regulation 40
h. Protection equipment will be calibrate at the site (SAT)
i. 2 no. of Three-pole Earthing and Short Circuiting Devices:
· Clamping range 55mm
· Cable cross-section 25/25 mm2
· Max. short-circuit current Ik 0.5s 7.0kA
· Max. short-circuit current Ik 1s 4.9kA
· Standard EN/IEC 61230 (DIN VDE 0683 Part 100)
· Temperature range –25°C + 55°C
· Material (clamp body) MCI/gal Zn
· Material (pressure plates) copper alloy
· Material (short circuiting cables) highly flexible copper
1.7 General Specification
a. Construction
The LV MSB is modular, contained, suitable for both front back access. The Switchboard Construction is Fabricated
b. Paint Work
The Heavy Sheet Steel is treated with the trust in habiting primer, following by coatings of top quality epoxy powder paint and oven bake to 200C to obtain good adhesive.
c. Technical Data The LV MSB is suitable for 400V, 3 phase, 4 wire and 50 Hz system. It is designed to with stand a fault level of 31 MVA.
d. Busbars are of hard drawn high conductivity copper with current density of 400A per sq. In color coating identification for the bus bar are as below:
i. Red - for red phase
ii. Yellow - for yellow phase iii. Blue - for blue phase
iv. Black - for neutral
e. Supply with 2 termination box c/w 5 x 400 Amp copper terminal (R, Y, B, N, & E) and 4 x 35mms amour cable.

CONSTRUCTION
· Marking: Engraved or silk-screened legends
· Storage: 1 compartments for storing miscellaneous item like hand tools, etc.
· Console: Heavy Sheet Steel
· Finish: Baked epoxy powder in matching grey duty castors
· Mounting : 6 Unit Heavy Duty Castors Wheel

Send Enquiry **Your Name**
Your Email
Tele Phone




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