

THREE PHASE ELECTRICAL LOAD BANK PANEL



EM-80-07-150-03-420

EDU-LABS



GENERAL SPECIFICATION / DESCRIPTION

- Built in one compartment made by minimum 1.5mm thickness metal.
- Complete with an automatic cooling fan for each type of load.
- Can full load operate continuous up to 6 hours.
- Complete with digital voltmeter, ammeter, kw meter, KVAR meter, KVA meter, kw/h meter, power factor meter and frequency meter.
- Each step load can on/off with push button and can indicate with green indicator light.
- Each step load can only operate when the cooling fan is on.
- Complete with over current and earth fault protection.
- Portable type (on heavy-duty wheel).

TECHNICAL SPECIFICATION

INCOMING:

- 3 phase 415V, 50Hz
- Complete with 150A 3 pole MCCB complete with shunt trip coil
- Complete with IDMT for protection device
- Complete with 4 x 150/5A 10P10 CT and 3 x 150/5A Class 1 CT
- 3 phase indicator light complete with 3 x 6A MCB
- Complete with digital power meter where can measure 3 phase voltage, 3 phase current, KW, KVA, KVAR, frequency, power factor and KW/h
- Main Busbar 4 x 15mm x 6.3mm hard drawn high conductivity.

- Complete with 150A industrial socket for incoming

RESISTIVE LOAD BANK COMPARTMENT (140 KW)

- Push Button (Hold) Switch x 16 Units
- Molded Case Circuit Breaker 10 A TPN x 4 Units
- Molded Case Circuit Breaker 20 A TPN x 4 Units
- Molded Case Circuit Breaker 40 A TPN x 4 Units
- 10A Magnetic Contactor 3 Pole x 4 Units
- 20A Magnetic Contactor 3 Pole x 4 Units
- 40A Magnetic Contactor 3 Pole x 4 Units
- Resistive Load: 5 kW x 4 Units
- Resistive Load: 10 kW x 4 Units
- Resistive Load: 20 kW x 4 Units
- LED Pilot Lamp x 16 Units
- Exhaust Fan x 1 Unit

CAPACITIVE LOAD BANK COMPARTMENT (140 KVAR)

- Push Button (Hold) Switch x 16 Units
- Molded Case Circuit Breaker 10 A TPN x 4 Units
- Molded Case Circuit Breaker 20 A TPN x 4 Units
- Molded Case Circuit Breaker 40 A TPN x 4 Units
- 10A Magnetic Contactor 3 Pole x 4 Units
- 20A Magnetic Contactor 3 Pole x 4 Units
- 40A Magnetic Contactor 3 Pole x 4 Units
- Capacitive Load: 5 KVA x 4 Units
- Capacitive Load: 10 KVA x 4 Units
- Capacitive Load: 20 KVA x 4 Units
- LED Pilot Lamp x 16 Units
- Exhaust Fan x 1 Unit

INDUCTIVE LOAD BANK COMPARTMENT (30 KVAR)

- Push Button (Hold) Switch x 16 Units
- Molded Case Circuit Breaker 10 A TPN x 4 Units
- Molded Case Circuit Breaker 20 A TPN x 4 Units
- Molded Case Circuit Breaker 40 A TPN x 4 Units
- 10A Magnetic Contactor 3 Pole x 4 Units
- 20A Magnetic Contactor 3 Pole x 4 Units
- 40A Magnetic Contactor 3 Pole x 4 Units
- Inductive Load: 5 KVA x 4 Units
- Inductive Load: 10 KVA x 4 Units
- Inductive Load: 20 KVA x 4 Units
- LED Pilot Lamp x 16 Units
- Exhaust Fan x 1 Unit

CONSTRUCTION

- Dimension (mm): 1830 (H) x 2135 (L) x 925 (W)
- Console: Heavy Sheet Steel
- Finish: Baked epoxy powder in matching grey & white
- Mounting: Unit is mobile with heavy duty castors
- Marking: Engraved legends

ACCESSORIES

- Industrial plug complete with 3 meter rubber insulated cable 2 x 200A

DOCUMENTATION

- Operating manual, specification and as build drawing.
- Original catalogue for item

INSPECTION AND TESTING

- Visual inspection and functional tests should be carried out,

- On completion of installation on site, various tests including sequential tests on starting, running and safety tests on tripping shall be carried out and witnessed thereof to ensure compliance. FAT (factory acceptance test)
- The maker shall be responsible for the supply, installation and commissioning and test run of the equipment before final acceptance. All costs shall be borne by the tenderer.
- All electrical works must comply to ST (Suruhanjaya Tenaga)
- Requirement and warranty of workmanship for 1 year.

WARRANTY AND AFTER SALES SERVICE

- Total warranty period bear by successful tenderer and manufacturer must be one (1) year upon completion of the item.

TRAINING

- Demonstration on delivery/provide training by qualified instructors.
- Provide training material during training session and training certificate for candidate.

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.