

Double Feeder Main Switchboard Demonstrator (ACB 800A)

EM-80-03-02-02Q

EDU-LABS



BUATAN MALAYSIA
MADE IN MALAYSIA



TECHNICAL DATA - General Features

This is a standard industrial LV switchboard but specially adapted to function as a training unit. It enables switchgears, instrument and protective gears used in normal switchboard to be demonstrated and their functions explained. It is excellent practice units for students to study its Circuitry, dismantle and reassemble Component parts rewire castors. Compartment doors/covers are hinged and can be opened manually by finger-operated screws.

TECHNICAL SPECIFICATIONS

Components/Accessories mounted on the upper door panel are as follows:

INCOMER A PANEL (FEEDER NO.1) - INPUT RATING. 415VAC, 3 PHASE

- 1 no Air Circuit Breaker 800A TPN, 45kA c/w shunt trip coil & Mechanical Interlock

Output:

- 2 nos MCCB 100A TPN 50KA
- 2 nos MCCB 200A TPN 50KA

Instrument:

- 1 no ammeter, range 0-800A c/w selector switch
- 1 no voltmeter range 0-500V c/w selector Switch
- 3 nos 22mm pilot lamp (R/Y/B) main phase lamp
- 7 nos MCB 1A, 3KA-for instrument control supply
- 1 no power factor meter

- 1 no Digital Three Phase Power Quality Meter complete with Ethernet TCP/IP network port MODBUS RTU communication protocol
- 1 no Power Management Software
- 3 nos 800/5A Class 3, 5VA C/T coil (for Ammeter)
- 3 nos 800/5A Class 3, 5VA C/T coil (for Power Quality Meter)
- 1 no 800/5A Class 3, 5VA C/T coil (for Power Factor Meter)

Protective Devices

- 1 no combined IDMT over current EFR
- 4 nos 800/5A Class 10P10 C/T coil (For IDMT, O/C & EFR)

INCOME B PANEL (FEEDER NO.2) - INPUT RATING: 415VAC, 3 PHASE

- 1 no Air Circuit Breaker 800A TPN, 45kA c/w shunt trip coil & Mechanical Interlock

Output:

- 2 nos MCCB 100A TPN 50KA
- 2 nos MCCB 200A TPN 50KA

Instrument:

- 1 no Ammeter, range 0-800A c/w selector switch
- 1 no Voltmeter, range 0-500V c/w selector switch
- 3 nos 22mm pilot lamp (R/Y/B) main phase lamp
- 7 nos MCB 1A, 3KA-for instrument control supply
- 1 no power factor meter
- 1 no Digital Three Phase Power Quality Meter complete with Ethernet TCP/IP network port MODBUS RTU communication protocol
- 1 no Power Management Software
- 3 nos 800/5A Class 3, 5VA C/T coil (for Ammeter)
- 3 nos 800/5A Class 3, 5VA C/T coil (for Power Quality Meter)
- 1 no 800/5A Class 3, 5VA C/T coil (for Power Factor Meter)

Protective Devices

- 1 nos combined IDMT over current & EFR
- 4 nos 800/5A Class 10P10 CT coil (For IDMT, O/C & EFR)

BUS COUPLER

- 1 No 800A 4 Pole ON/OFF Isolator c/w Mechanical Interlock

POWER FACTOR CORRECTION PANEL

- Capacitor bank: 6 nos
- 1 nos MCCB 60A 3 pole, 25kA
- 1 no P/F Controller 6 step c/w built in C/T
- 6 nos 10A MCCB TP, 25kA
- 6 nos 20A magnetic contactor
- 6 nos 5KVAR capacitor bank (3 phase)
- 6 nos 22mm Pilot Lamp - for step indicator Lamp

Construction

- Physical sizes Approx. 2300H x 1800 x 1100D in mm
- Console: Heavy sheet steel
- Finish Baked epoxy powder in matching grey & white
- Marking: Engraved, label printing or silk screened legends

MANUALS AND DOCUMENTATION

To supply 1 set of hardcopy and one (1) set of softcopy of the following

- Instruction and Operation Manual
- Maintenance and Service Manual
- Test Report/Certificate of Equipment accuracy (to specify)
- International standard regarding the equipment supplied

WARRANTY

Warranty period for one (1) year from the date of installation and commissioning and handling over

INSTALLATION, TESTING & COMMISSIONING

Each individual unit within this system are complete wired internally The whole system shall be assembled and interconnected together at site Commissioning of this system shall Include testing, start-up and demonstration on the operation procedures.

Including the Testing and commissioning to demonstration the functioning and full operation of the DOUBLE FEEDER MAIN SWITCHBOARD Demonstrator at site without **LOADING** by connected 5 pin CEE 32A AC Plug to customer's existing 5 pin CEE 32A AC Socket ONLY.

TRAINING

The tenderer provide end user training for one (1) working day at least 5 participants which covers:

- Hands on experimental training with theoretical explanation

Note: Due to products continuous development process, layout and specification may change without prior notices.