POWER FACTOR CORRECTION TRAINING PANEL COMPLETE WITH RLC LOADING UNITS

EM-600303

SCIENSCOPE
EDU-LABS

BUATAN MALAYSIA
MADE IN MALAYSIA

The unit is specially developed for use in electrical teaching laboratory for the purposed of demonstrating the basic concept and the operating principle of power factor correction system.

FEATURES

- All Required components are systematically and didactically arranged on a sloping study panel with all internal components and circuit schematically represented by screen-printed mimic diagrams.
- Actual industrials system but specially adapted for teaching and demonstration purposes.
- Compact and self-contained unit available in a bench-top and mobile version.
- Circuit construction is achieved by patching together the desired components.
- All internal components and circuits are terminated as 4mm safety-type terminal sockets.
- Internal circuits are fully protected against overload and short-circuit faults.

TECHNICAL SPECIFICATIONS

- Input: 240/415VAC, 20A, 3 phase, 50Hz.
- Output: 240/415VAC, 20A, 3 phase, 50Hz to be connected to resistive, inductive and capacitive loading units.

EQUIPMENT INCLUDES

POWER FACTOR CORRECTION PANEL — EM-60-01-06P

- 3 x 22mm Pilot Lamp (R/Y/B) Main Phase Lamp
- 1 x Power Factor Regulator/Controller 6 steps
- 6 x Capacitor Banks of assorted ratings 1KVAr
- 1 x Circuit Breaker 32A TP
- 6 x Circuit Breaker 16A TP
- 6 x Magnetic Contactors 240V
- 6 x Indicating lights 240V
- 1 x 32/5A Class 3, 5VA C/T Coil
- 1 x Three Phase Power Meter
  - Able to measured voltage, current, power factor, active power, reactive power, apparent power and energy consumption KWH, KvarH, Frequency.
  - All parameters are true value (TRMS), input signal can be all kinds of wave.
  - Accuracy: ±0.5% FS±2 digit
  - Display: Programmable setting, switching, circularly 3 lines LED / LCD display
  - DC 4-20mA analog output, accuracy: ±0.5%FS.
  - Software communication with RS485 and Modbus RTU

RESISTIVE LOAD UNIT EM-30-07-01 (1KW)

Single-Three phase Resistive Load 7 steps variable per phase

- Max Power: 3 X 350Watt
- Voltage: 240/415 Volt
- Unit Type: Top Table

Main Characteristics

- Can be connected in Series, Parallel, Star and Delta configurations.
- Can be connected to AC Single and 3 Phase sources.
- Controlled by 3 x 3 circuit breaker switches for 7 steps selection.

INDUCTIVE LOAD UNIT EM-30-07-02 (1KVA)

Single-Three phase Inductive Load 7 steps variable per phase

- Max Power: 3 X 350VA
- Voltage: 240/415 Volt
- Unit Type: Top Table

Main Characteristics

- Can be connected in Series, Parallel, Star and Delta configurations.
- Can be connected to AC Single and 3 Phase sources.
- Controlled by 3 x 3 circuit breaker switches for 7 steps selection.

CAPACITIVE LOAD UNIT EM-30-07-03 (1KVA)	4MM SAFETY STACKABLE TEST LEAD SET EM-30-15-02
 Single-Three phase Resistive Load 7 steps variable per phase ○ Max Power: 3 X 350VA ○ Voltage: 240/415 Volt ○ Unit Type: Top Table **Main Characteristics** ○ Can be connected in Series, Parallel, Star and Delta configurations. ○ Can be connected to AC Single and 3 Phase sources. ○ Controlled by 3 x 3 circuit breaker switches for 7 steps selection.	 ○ The set consists of 25 leads in 5 different coded colors (Red, Yellow, Blue, Black and Green) and lengths chosen to allow the realization of all experiment manual. ○ Leads are capable of 15A current safety plugs. ○ Safety Terminal Plug : 4mm ○ 250mm x 7 units ○ 500mm x 6 units ○ 1000mm x 6 units ○ 1500mmcm x 6 units

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