



46644 Power Factor Relay Kit is a rugged training system for the Electrical laboratories mounted on Aluminum profile rack with sturdy table top flat panel. Each panel has sturdy ABS plastic molded enclosure with 4mm shrouded connectors showing circuit diagram & its connection tag numbers for easy understanding and connections. The product helps you to get fully acquainted with the basic concepts and functioning of Power Factor Relay.

Features

- Aesthetically designed Aluminum Profile Structure
- ISI/CE marked branded Components/Meters are used
- ABS plastic enclosed Panel Board with mimic diagram
- All input & output are terminated in 4mm shrouded connector,
- 4mm banana cable for experiments.

List of Experiment

1. To study the working of contactor
2. To study and measure voltage, current & power factor of lamp load
3. To study and measure voltage, current & power factor of inductive load
4. To study the working of power factor correction relay with inductive and resistive load

Specification

Rack -

- Material : Aluminum Profile
- Material Dimension : 30 x 30 mm
- Panels on Rack : 10 Nos.
- Mimic diagram on Panel : provided
- Termination on panel : 4mm shrouded connector
- Input / Output : 4mm shrouded cable used of various length

Panel 1- DOL starter panel

- Phase : Three Phase
- MCB : 4 pole, 415 V/4A
- Contactor : 9A, 230V / 50 Hz / 11VA COIL.
- Display : Indicators for R-Y-B Input
- Start / stop : Manual type with local trip contact

Panel 2 - Multifunction meter panel

- Type : Bidirectional Multifunction
- Phase : 3 Phase $\frac{3}{4}$ wire

Note: Specifications are subject to change.

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- Voltage : 415V
- CT Input : 5A
- Display, : LCD/LED
- Aux supply : 230V, 45-65 Hz, 5W
- Measurement Units : V, A, Hz, Pf, KVA, KW, KWH
- PC Communication : Modbus RTU RS485 (OPTIONAL)

Panel 3 to 6 - Contactor Panel

- Rating : 9A, 230V / 50 Hz / 11VA COIL
- Contacts : Power Contacts : 3 NO type
Logic Contact : 2 NO, 2 NC

Panel 7 - Switch panel

- FWD/REV switch : 6A/440V, 3 pole, 3 way
- Star/Delta switch (**Optional**) : 6A/440V, 3 pole, 3 way

Panel 8 & 9 - Lamp Load Panel

- Lamp Load : 15W / 40W / 60W / 100W / 200W, 230V AC with indicators (3 No's)
- Toggle Switch : ON/OFF for each bulb (3 No's)

Panel 10 - Relay Panel

- Type : Electromechanical / Numerical type Power Factor Control relay
- Aux. Supply : 415V AC
- Contacts : 8 No's
- Connector : Current Coil
- Connection : All connection of relay are brought out on this panel

Table Top RLC Panel

- Resistive Load : 100E / 125E / 150E / 175E / 200E / 225E / OFF 600W / 7 steps (3Nos)
+ 262E SIL tap
- Inductive Load : 0.15H / 0.3H / 0.45H / 0.6H / 0.75H / 1.5H / 3H / 1A (3Nos)
- Capacitive (VAR Compensation): 1 μ F / 2 μ F / 4 μ F / 5 μ F / 6 μ F / 8 μ F / 10 μ F & 15 μ F / 415V (3Nos)

Accessories

1. Set of Shrouded Cables
2. Set of Manuals with Experiments

Optional Accessories

1. Working Table – 1 No.
2. Multimeter – 1 No.
3. Tool Kit – 1 No.

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