



Order Code - 46646 Feeder Protection Relay Trainer is a rugged training system for the Electrical laboratories mounted on Aluminum profile rack with sturdy table top flat panel. Each panel has ABS molded plastic sturdy 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 a Feeder Protection Relay Trainer.

#### SPECIFICATIONS

- Trainer control panel is provided in 40X40mm Aluminum profile rack with sturdy table top flat panel.
- It has 16 no's of ABS plastic panel mounted on the aluminum rack with mimic diagram.
- All input & output are terminated in 4mm shrouded connector and 4mm banana cable is provided for experiments.
- 3phase DOL starter 4pole MCB, contractor & relay panel
  - 4 pole MCB of 415 V/4A.
  - DOL 9A Contactor with 230V / 50 Hz /11VA COIL.
  - Bimetallic thermal O/L relay with range 1.4A - 2.3A
  - R-Y-B Input display Indicators.
  - Manual start / stop with local trip contact
- 3 phase multifunction meter panel
  - Bidirectional Multifunction
  - 3 Phase  $\frac{3}{4}$  wire, 415V, CT Input 5A
  - LCD/LED display, Aux supply 230V, 45- 65 Hz, 5W
  - V, A, Hz, Pf, KVA, KW, KWH
  - Modbus RTU RS 485

Note: Specifications are subject to change.

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- 1 Ph AC Input supply Panel
  - 1ph 230V/2A & 230V/4A AC output supply.
  - 1 ph. MCBs of 4A.
  - Lamp Load socket with 100W Bulb
- FWD/REV Switch panel
  - FWD/REV, 3 pole 3 way switch, 6A/440V.
- Over current & elapsed time measurement panel (3 Nos)
  - AC ammeter
  - Elapsed time counter
- Variable Voltage Panel (3 Nos).
  - 1 phase dimmer Input 230VAC/1A, Output 270VAC/1A.
- Variable AC/DC and Current Injector panel (3 Nos)
  - 1 phase dimmer 230VAC/1A
  - Short circuit transformer with primary 230VAC/1A, secondary 0-2-8V/12A taps.
- CT panel
  - Six numbers of 5/5 Amp. CT.
- Star / Star Step down transformer panel
  - 415/110VAC, 50VA, Star/Star Step Down Transformer Panel
  - Transformer primary and secondary are brought on 4mm shrouded socket on Front panel.
- Table Top Feeder manager relay panel
  - Numerical Type Feeder Protection Relay,
  - Current rating 1A/5A for protection of feeder.
  - USB port for PC communication, relay setting with software on CD

#### ACCESSORIES

- Set of Shrouded Cables
- Set of Manuals with Experiments.
- Demo CD showing Experiments

#### OPTIONAL ACCESSORIES

- Working Table.... 1 No
- Multimeter ... 1 No
- Tool Kit... 1 No

#### EXPERIMENT LIST

- Study the working of IDMT over current protection.
- Study the working of under/over voltage protection.
- Study the working of under/over frequency protection.
- Study the working of earth fault protection.
- Study the working of negative sequence over current protection.
- Study the working of zero sequence over voltage protection.
- Study the working of negative sequence over voltage protection.
- Study the working of Local breaker backup (LBB) function protection