



46647 Generator 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 Generator Protection Relay Trainer.

Technical Specification

- Machine trainer having control panel provided in 30X30mm Aluminum profile rack sturdy table top flat panel with mimic diagram
- Modular type flat panel carrying various high voltage components housed in ABS plastic enclosure to minimize shock possibility.
- Modular panel for easy site servicing not close control
- All input & output are terminated in 4mm shrouded connector, provided with 4mm shrouded cable for
- experiments.
- Electrical Control panels are provided in Slidable 14 numbers of ABS Enclosure box.
- 3 phase 415V supply with 4pole MCB/10A, contractor 9A, relay 1.4A - 2.3A with R, Y, B indicator & Start/Stop Switch with local trip contact
- 3 phase multifunction meters to measure V, I, Hz, Pf, KVA, KW, KWH
- Single Pole 6A/4A MCB with E27 Socket Lamp load.
- Elapsed time counter range 999.001 sec, resolution 1msec, start-stop, reset switch (2 No's)
- Consists of Digital AC ammeter of 20A range (2 No's)

- 1 phase Current Injector Output 0-200V/ 3A, 0-2-8VAC/12A (2 No's)
- 1 phase Voltage Injector input 230V/50Hz, Output 0-270V/1A
- Consists of FWD/REV 3 Pole Cam Switch
- Six 5/5A CT terminal Primary & Secondary brought out on panel
- 3 Phase 50VA Star-Star Step Down Transformer Primary:415V, Secondary: 110V
- Table Top 3 Phase Resistive Load Panel 600W resistors with switch selectable for 100, 112, 125, 150, 175, 200 & 225 Ohm with 2 No's of cooling Fan (Optional)
- 3 Phase Numerical Feeder Manager Relay Panel.
 - ♦ 2NO&2NC Trip contacts
 - ♦ Current Rating 1A/5A
 - ♦ USB PC Interface
- Work Bench (Optional)
 - ♦ Work Table Size 1200x750x800 (L x W x H), with four castor wheels including two lockable wheels with 3 Drawers size of L450mm x W500mm x H200mm.

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

Note: Specifications are subject to change.