



Order Code - 46641 Distance 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 Distance Protection Relay Trainer

SPECIFICATIONS

- Trainer control panel is provided in 40X40mm Aluminum profile rack with sturdy table top flat panel.
- It has 8 no's of ABS plastic panel mounted on the aluminum rack with mimic diagram of components
- All input & output are terminated in 4mm shrouded connector and 4mm banana cable is provided for experiments.
- 3 phase 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
 - Separate NO contact brought out for auto recloser & NC for trip.
- 3 phase multifunction meter panel (2Nos)
 - Bidirectional Multifunction
 - 3 Phase ¾ 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
- Distance Relay Panel
 - Relay connection are brought out on front panel

- 2 NO Trip contacts, 1 NC Trip contacts, 1 NO Auto reclose contact.
- Auxiliary Supply of 230VAC.
- Protection relay type (Numerical)
 - Numerical type distance protection relay, current rating 1A/5A for protection of transmission line - RS232 port for PC communication, relay setting with software on CD
 - RS232 to USB converter for USB interface
- 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.
- CT panel
 - Six numbers of 5/5 Amp. CT.
- FWD/REV Switch panel (1 No)
 - FWD/REV, 3 pole 3 way switch, 6A/440V
- 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
- Table Top Transmission line Panel
 - Simulated model for short transmission line using Resistance R (10 ohm/600W)
 - Six numbers of Inductance L(0.15H/5A)
 - Six numbers of Capacitance C (2.2uF/630V)
 - Simulated model for medium length 125kms & long length 250kms transmission line.
 - Two numbers of Fan provided for Air cooling.
- Table top Resistive Load panel
 - 3 numbers of 600W resistors with switch selectable
 - Switch of 7 way at 100, 112, 125, 150, 175, 200 & 225 Ohm selection.
 - Two numbers of Fan provided for Air cooling

ACCESSORIES

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

OPTIONAL ACCESSORIES

- Working Table (KWT-01)....1 No
- Multimeter ... 1 No
- Tool Kit... 1 No

EXPERIMENT MOTOR LIST

- Study of No Load Test.
- Study of Ferranti Effect.
- Study Determination of transmission line ABCD parameter.
- To perform experiment for distance protection of transmission line LG, LL, LLG, LLL, LLLG.
- To perform experiment for auto recloses function of the relay for transient type faults.

Note: Specifications are subject to change.

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