







SALIENT FEATURES

- The trainer has built in requisite relay testing kit typically consisting of voltage injector, current injector, elapsed time counter (1 msec resolution), trip logic etc. all mounted in a light weight sturdy aluminum profile flat demo panel system.
- It facilitates study through experiment characteristics of fuse, MCB & ubiquotous bimetallic relay used in all your home/ kitchen apparatus including home mixer set etc.
- Optionally ACB, SF6 & VCB CB may be supplied for high

Technical Specifications

- Control Power Supply & 1 Ph. AC Distribution Panel (EMT8)
- DC Multi Output power supply.
- Supplies DC power to neighboring signal conditioning circuitpanels like EMT9, CIP1, CIP2, MIT12, CE7 etc. through 20 pin FRC cable.
- Provides 1 Ph. AC supply through 3 MCB's, 4A each to power up other panels in the rack.
- Optionally Multichannel 4 position DPM for Speed, Torque etc
- Green SBS5 socket is provided for extend earth.
- Variable voltage & current injector panel (EMT23A)
- Consist of 1 phase dimmer 230VAC/1A
- Short circuit transformer with primary 230VAC/1A, secondary 0-2-8V/12A taps.
- Over current & elapsed time measurement panel (EMT 39)
- Consists of AC ammeter of 20A
- Elapsed time counter range 999.001 sec, resolution 1 msec.
- Fuse, MCB & Bimetallic relay Panel (EMT 57)
- Kitkat Fuse 2Amp
- MCB-2Amp
- Bimetallic relay 2Amp
- Hall Sensor Based Zero Current Detector Panel (MIT12A)

AC/DC current half sensor (x2nos, one optional): Closed Loop current measurement using Hall sensor IC (max. I/P Note: Specifications are subject to change.

voltage lab to study & plot characteristics.

- Facilitates easy and safe wiring by students due to use of 4mm sturdy Shrouded banana patch cords and shrouded socket arrange-ments for high voltage circuits
- Each panel has ABS molded plastic sturdy enclosure, and colorful screwless overlays showing circuits diagrams & its connection tag numbers for easy understanding and connection
- Set of Instructor Guide & Student Workbook

upto 20A, 50/60Hz), Isolation = 2.1KV, Proportional O/P = 0 - 2.5V, 1 CH Optional. DC Voltage transducer (x2 nos one optional): Using high speed opto coupler IC (max. up to 600Vdc), isolation = 2 KV 1 CH Optional.

Function Blocks Used: Precision rectifier (x 2 nos) with gain = 5, LPF (x2nos) with gain = 2, Span Zero Circuit to interface with ADC(0-2.5Vdc) for both current and voltage, only 1 functional block each supplied, 2nd optional, field failure / zero current detector with Relay NO-NC Contact.

- Air Circuit Breaker (ACB)- Table top (Optional)
- ACB 3ph, 440V, 3 pole, 50Hz, fixed type
- Rated current- 400A
- Rated voltage- 415V
- Rated S.C. breaking- 50KA
- Rated (S.T.) with stand capacity 1sec- 50KA
- SF6 Circuit Breaker Floor standing (Optional)
- Rated voltage- 11KV
- Rated nominal current- 630A
- Type of mechanism-spring spring
- Rated frequency-50Hz
- Type (indoor/ outdoor)

List of Experiments

- To study & plotcharacteristics of Fuse
- To study & plot characteristics of MCB
- To study & plot characteristics of Bimetallic relay
- To study & plot characteristics of ACB (Optional)
- To study & plot characteristics of SF6 (Optional)
- Mechanical Dimensions: 1165 (L) x 300 (W) x 545 (H)

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