



SALIENT FEATURES :

- 01 Facilitates easy and safe wiring by students due to use of 4mm sturdy Shrouded banana patch cords & shrouded socket arrangements.
- 02 All machines are mounted on finely painted sturdy base frame with easy machine interchangeability. Use of gear coupling facilitates screwless coupling. Interchangeability. Use of gear coupling facilitates screwless coupling.
- 03 With due emphasis on student safety machines operate upto 300W power levels and upto 1500 RPM, without compromising on didactic use. Able to draw all graphs.
- 04 Trunnion mounted DC Integrated machine is used as Dynamometer for loading other machines (Motors/ generators both); unlike magnetic powder brake or eddy current brake which can load only coupled Motors and not generators, with facility to measure shaft power using electronic torque / speed Measurement

DC MOTOR COUPLED 3PH. SALIENT MOTOR TRAINER Name of the Experiments :-

- Experiment -1 speed torque curve of DC shunt motor with 3 phase salient motor
- Experiment -2 speed torque curve of DC series motor with 3 phase salient motor
- Experiment -3 Speed torque curve of separately excited DC motor with 3 phase salient motor
- Experiment -4 Speed torque of DC compound motor with 3 phase salient motor
- Experiment -5 v-i efficiency curve of DC shunt generator with 3 phase salient motor
- Experiment -6 v-i efficiency curve of DC series generator with 3 phase salient motor
- Experiment -7 v-i efficiency curve of DC separately excited generator with 3 phase salient motor
- Experiment -8 v-i efficiency curve of DC compound generator with 3 phase salient motor
- Experiment -9 v-i efficiency curve of occ of shunt generator with 3 phase salient motor
- Experiment -10 Speed torque of 3ph. synchronous motor
- Experiment -11 Efficiency and input power factor measurement 3ph. synch. motor
- Experiment -12 Study of 'v' curve and inverted 'v' curve
- Experiment -13 output volt amp charACteristics of synchronous generator
- Experiment -14 Efficiency of synchronous generator
- Experiment -15 Performance of R, L, and C load

Panels Provided

- 01 Aluminum Machine trainer Rack
- 02 Input 3 phase DOL Starter panel

Note: Specifications are subject to change.

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- 03 Multifunction Meter (Single Phase/Three Phase AC 50Hz)
- 04 FWD/REV, Star-Delta starter panel
- 05 DC voltmeter & Ammeter and Torque Measurement Meter
- 06 Variable DC Power Supply
- 07 Input Single Phase DOL Starter Panel AC DC Fix / Variable Supply
- 08 AC Load Resistor
- 09 DC Load Resistor
- 10 AC Load Inductor
- 11 Capacitive (C) Load
- 12 Extension Board

Motors Provided

- 01 DC Integrated (Trunion Mounted) Motor
- 02 3 Phase Salient Pole Alternator

Accessories Provided

- 01 Hand held digital Tachometer
- 02 Shrouded connecting leads 4mm 50 / 100cm assorted Red & Black



DC INTEGRATED (TRUNION MOUNTED) MOTOR

Voltage : Varm= 180V Vfield = 180V Capacity -300W/2 Pole m/c, RPM - 1500, Shrouded Socket - 12 Rotor Construction: Standard commutator / brush arrangement with laminated stack, brought out on 2 terminals Stator construction : Separately excited field winding with laminated solid yoke 2 pole and series winding brought out on 4 terminals. Toque characteristic: Provision of load cells 6 Kg. 2 No. assembly to measure the torque.



3 PHASE SALIENT POLE ALTERNATOR

Voltage : 415VAC, 50Hz Capacity - 300W/4 Pole m/c, RPM - 1500, Shrouded Socket - 12 Rotor Construction : Star connected, four terminals including star point brought out on 4 slip rings mounted on shaft. Stator construction : Separately excited field winding with laminated solid yoke, 4 pole brought out on 2 terminals



ALUMINUM FRAME - MODULAR PANELS

Electrical motor trainer rack madeup aluminium profile size 40×40mm, foldable and light in weight 10 panel setup can be interchange convidently to perform experiments. Dimention Length1100×Hieght 1000×Depth 350mm.

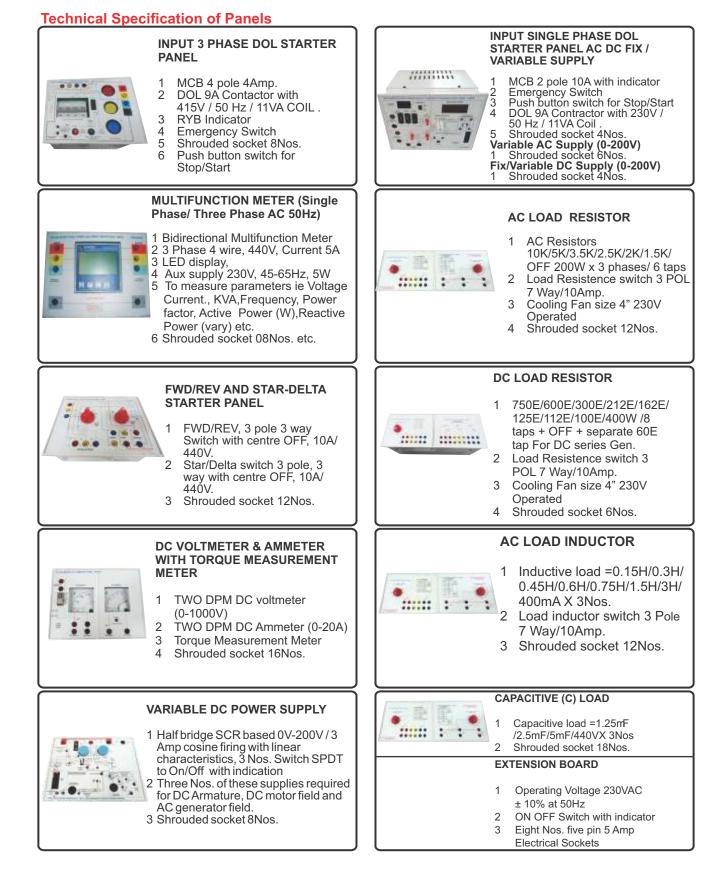
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