



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 screw less coupling. interchangeability. Use of gear coupling facilitates screw less coupling.
- 03 With due emphasis on student safety machines operate up to 300W power levels and up to 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

SINGAL PHASE AC INDUCTION MOTOR TRAINER

NAME OF THE EXPERIMENTS :-

- | | |
|--------------|--|
| Experiment-1 | Study of speed-torque characteristics of single phase induction motor (split phase type). |
| Experiment-2 | Study of efficiency and input power factor of 1phase induction motor (split phase type) for various loading conditions. |
| Experiment-3 | Study of speed-torque characteristics of single phase induction motor (capacitor start type). |
| Experiment-4 | Study of efficiency and input power factor of 1phase induction motor (capacitor start type) for various loading conditions. |
| Experiment-5 | Study of speed-torque characteristics of single phase induction motor (capacitor start-run Type). |
| Experiment-6 | Study of efficiency and input power factor of 1phase induction motor (capacitor start-run type) for various loading conditions. |
| Experiment-7 | Study of "No Load Test" and "Blocked Rotor Test ". on 1 phase Induction Motor. |

Continues-1/2

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS

Panels Provided


01 Aluminum Machine trainer Rack.....	20 300 Qty.1
02 Multifunction Meter (Single Phase/Three Phase AC 50Hz).....	20 302 Qty.1
03 1 Phase Motor, Alternator & Sync. Motor.....	20 305 Qty.1
04 Extension Board.....	20 315 Qty.1

Motors Provided


01 Single Phase AC Integrated Motor (20 505) with loading arrangement.....	20 510 Qty.1
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Accessories Provided

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




**ALUMINUM FRAME - MODULAR
PANELS TYPE-20 300.**
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.



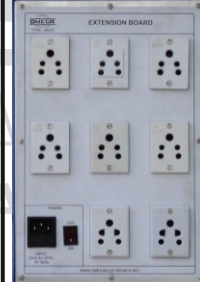
**1 PH. MOTOR, ALTERNATOR &
SYNC. MOTOR
TYPE-20 305**

- 1 1 ph. MCBs of 4A/1.6A 1 each.
- 2 no. 2P2W selector switches to run as 1ph. Alternator then as synchronous motor.
- 3 2A push button switch to simulate as centrifugal switch.
- 4 1 Lamp load holder with lamp
- 5 Shrouded socket 14Nos.



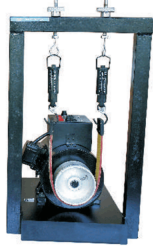
**MULTIFUNCTION METER (Single
Phase/ Three Phase AC 50Hz)
TYPE-20 302**

- 1 Bidirectional Multifunction Meter
- 2 3 Phase 4 wire, 440V, Current 5A
- 3 LED display,
- 4 Aux supply 230V, 45-65Hz, 5W
- 5 To measure parameters ie Voltage Current., KVA, Frequency, Power factor, Active Power (W), Reactive Power (vary) etc.
- 6 Shrouded socket 08Nos. etc.



**EXTENSION BOARD
TYPE-20 315.**

- 1 Operating Voltage 230VAC ± 10% at 50Hz
- 2 ON OFF Switch with indicator
- 3 Eight Nos. five pin 5 Amp Electrical Sockets



SINGLE PHASE AC INTEGRATED MOTOR 20505(with loading arrangement).....TYPE-20510

Continues-2/2

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