

OMEGA TYPE 20 107 Single Phase Induction Motor Lab Training Board provides one to study concepts of Single Phase Capacitor Short Induction Motor. Different terminals are provided for main winding, starting winding and capacitor so as to enable student to understand the significance of individual windings along with the role of capacitor in the motor in a simple manner. It contains phenomenon of excitation, running and reversing of the motor. One can calculate the equivalent circuit parameters and the power factor of the motor. With this unit one can also know the relation between speed and torque, know as load characteristics or speed-torque characteristic of the motor. All connections and appearance of panel are designed in a simple manner. Students can make connections by themselves.

OBJECT

- 01 Study of Single Phase Induction Motor
- 02 Study of Running and Reversing of Single Phase Induction Motor
- 03 Study of the No-Load Test in a Single Phase Induction Motor
- 04 Study of the Blocked Rotor Test in a Single Phase Induction Motor
- 05 Study of Load Test of a Single Phase Induction Motor

FEATURES

- 01 Machine with Mechanical Loading Arrangement.
- 02 Provided with Digital Tachometer.
- 03 Machine with Class "B" Insulation.
- 04 Heavy Duty Base/Channel.
- 05 Brake Drum/Pulley with heat suppression facility.
- 06 Equipped with supply indication lamps
- 07 Designed by considering all the safety standards.
- 08 Diagrammatic representation for the ease of connections.
- 09 Exclusive and Compact Design.



TECHNICAL SPECIFICATION

The board consist of:

- 01 Single Phase Induction Motor
 - Type : Capacitor start
 - Rating : 1 HP
 - Voltage rating : 230 V \pm 10%
 - Speed : 1440 RPM (No Load)
 - Insulation : Class 'B'
 - Loading Arrangement: Mechanical
 - Brake Drum/Pulley : Aluminum Casted
- 02 Digital Meters Used
 - AC Digital Voltmeter : 0 - 500 V
 - AC Digital Ammeter : 0 - 10 A
 - Digital Watt meter : 250V, Current 5Amp. Total watt 1250W.
- 03 MCB : 10 A
- 04 Mains Supply : 230 V \pm 10%, 50 Hz
- 05 Dimensions (mm) : W600xD350xH450 Control panel
W335xD450xH560 (Motor)
- 06 Weight : 12KG Approximate (Control Pn.)
22KG Approximate (Motor)

LIST OF ACCESSORIES:

- 01 Shrouded 4 mm patch cord length 50/100cm.....28
- 02 Digital Tachometer: 20,000 RPM

OTHER APPARATUS REQUIRED:

- 01 Single phase variac input 230V, output 0 - 270V, Current 6Amp and above.

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

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