



**Single Phase Induction Motor Lab** is an exclusive and attractive training system for the electrical laboratories. It provides complete learning concepts of Single Phase Capacitor Start Induction Motor. Separate terminals have been provided for main winding, starting winding and capacitor so that student can understand the significance of individual windings along with the role of capacitor in the motor in a simple manner.

It includes phenomenon of excitation, running and reversing of the motor. Students can calculate the equivalent circuit parameters and the power factor of the motor. It demonstrates the relation between speed and torque, known as load characteristic 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.

#### Technical Specifications

**Mains Supply** : 230 V  $\pm$ 10%, 50 Hz

#### Induction Motor

Type : Capacitor start  
Phase : Single  
Current type : AC  
Rating : 1 HP  
Voltage rating : 230 V  $\pm$  10%

#### Meters Used

Voltmeter : 0-300 V  
Ammeter : 0-10 A  
Wattmeter : 1000 W  
MCB : 10 A

#### Scope of Learning

- ◆ Study of Single Phase Induction Motor
- ◆ Study of Running and Reversing of Single Phase Induction Motor
- ◆ Study of the No-Load Test in a Single Phase Induction Motor
- ◆ Study of the Blocked Rotor Test in a Single Phase Induction Motor
- ◆ Study of Load Test of a Single Phase Induction Motor

- ◆ Exclusive and attractive designed panel
- ◆ Stand alone operation
- ◆ Designed by considering all the safety standards
- ◆ High quality meters
- ◆ Diagrammatic representation of the circuit for ease of connections
- ◆ e-Manual

Note: Specifications are subject to change.

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