



**46601** Slip Ring Induction Motor Lab is an important product designed to demonstrate the operating behavior & working of Three Phase Machine. It provides complete learning contents to enhance practical knowledge and makes students get to know the fundamental concepts of Three Phase Induction Machine.

The product includes comprehensive learning of various experiments such as running & reversing phenomenon, no load test, block rotor test and load test of Three Phase Induction Machine.

Students can measure the equivalent circuit parameters along with losses, power factor under different loading conditions. Winding terminals brought out on top of the motor with adequate protections so that the students can make connections by themselves.

### 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 suppression facility
06. Equipped with supply indication lamps
07. Terminals provided to use the optional externally
08. Designed by considering all the safety standards
09. Diagrammatic representation for the ease of connections
10. Exclusive and Compact Design

### Objects

01. Study of Running Three Phase Slip ring Induction Motor
02. Study of Reversing Three Phase Slip ring Induction Motor
03. Study of No Load Test in a Three Phase Slip ring Induction Motor
04. Study of Block Rotor Test in a Three Phase Slip ring Induction Motor
05. Study and Measurement of Slip in a Three Phase Slip ring Induction Motor
06. Study of Speed-Torque Characteristics of Three Phase Slip ring Induction Motor

### Technical Specifications

01. Mains Supply :Three Phase, 415V+10%, 50Hz
02. Three Phase Motor
  - Type : Slip-Ring
  - Rating : 1HP
  - Voltage Rating : 415V
  - RPM : 1420 (No load)
  - Insulation : Class 'B'
03. Loading Arrangement : Mechanical
04. Brake drum/Pulley : Aluminum Casted
05. Meters Used Digital 3½ digit.
  - Digital AC Ammeter : 5A
  - Digital AC Voltmeter : 500V
  - Digital Wattmeter : 250Vx5A =1250W (2No.)
06. MCB 3 Pole : 10A
07. Rotor Resistance Starter
08. Dimensions panel : L600 x H450 x D350mm
09. Dimensions motor : L300 x H650 x D350mm
10. Weight panel : 14.5KG(Approximate)

Note: Specifications are subject to change.