



OMEGA TYPE 20 109 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)
- 11 Weight motor : 22KG (Approximate)

LIST OF ACCESSORIES:

- 01 Shrouded patch cord 4mm length 50/100cm.22
- 02 Digital Tachometer.....01

OTHER APPRATUS REQUIRED:

- 01 Three phase variac Input 0-415 V Output 0-470 V current 3 Amp Or Above.

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

OMEGA ELECTRONICS