



Slipring motor belongs to the family of 3Phase Induction motors, with the difference that the rotor is not same as Induction motors instead has windings with slipring & slipring holder on the rotor. These motors find major application in Crane applications & had the advantage over induction motors that by inserting resistance in the rotor winding the speed can be varied, though this advantage is not valid today as Induction motors have go VVVF drives for speed control.

This Model is the Industrial/Educational model suitable for demonstrating to students the complete know of the Basics, Components, Starting methods, Speed-Torque behavior, Wear & Tear & Maintenance of these motors packaged in small rating.

Students can make connections of their own with the help of the terminations provided for study of features viz Starting methods, Speed control, Speed-Torque, Effect of resistance in rotor, Effects of Single phasing, Effect of voltage imbalance operation, Blocked rotor test.

Technical Specs :

Power ratings available : 350W / 750W / 1KW / 2 KW / 3KW / 5KW
Voltage Input: 440V AC 50hz
RPM: 1440 / 2880 RPM
Single / Double shaft extension, TEFC, IP44, IC01, B3, Class-B, S1,
Casting body

List of Experiments

- 1) Starting by DOL Starter
- 2) Starting by reduced voltage starter.
- 3) Speed variation by Rotor resistance
- 4) Speed Control by VVVF method
- 5) Load test & No load test of machine
- 6) Speed-Torque Analysis
- 7) Voltage-Speed Analysis
- 8) Speed reversal
- 9) Efficiency Analysis
- 10) Blocked rotor test
- 11) Cold Resistance & Hot Resistance
- 12) Motor Operation parameters
- 13) Basic Overhauling Know how

Note: Specifications are subject to change.

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