

With the availability of 3Phase power becoming common, the use of 3Phase AC Squirrel cage motor became very common & demand increased for motors with single phase power, as the current in single phase is a concern, hence motors upto 3Hp have been made In Single phase power with the same Induction design principle.

These motors have a capacitor in its running winding this means the capacitor is always connected and active while the motor is running. This Model is the Industrial/Educational model suitable for demonstrating to students the complete know of the Basics, Components, Starting methods, 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-Torque, Effect of Phase angle, Study of Cogging/Crawling, Effect of reduced voltage, Blocked rotor test.

Technical Specs :

Power ratings available : 350W / 750W / 1KW / 1.5KW

Voltage Input: 230V AC 50hz

RPM: 1440 / 2880 RPM

Single / Double shaft extension, TEFC, IP44, IC01, B3, Class-B, S1, Casting/Sheet metal body



List of Experiments:

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

Note: Specifications are subject to change.

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