

With the availability of 3Phase power becoming common, the use of 3Phase AC Squirrel cage motor became very common & today it holds 90% of the total market share. The simplicity in operation with the 3phase voltages & immediate torque made it a very common motor. Dahlander motor is just an extension with the flexibility that from 1 motor you can get 2 different fixed rpm, this is basically by changing the coil connections inside the motor.

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 control, Speed-Torque, Effect of Phase angle, Study of Cogging/Crawling, Effects of Single phasing, Effect of voltage imbalance operation, Blocked rotor test.

Technical Specs :

Power ratings available : 350W / 750W / 1KW / 2KW / 3KW / 5KW
Voltage Input: 440V AC 50hz
RPM: 2pole & 4pole, (1400/2880), other options are (6pole/4pole)
Single / Double shaft extension, TEFC, IP44, IC01, B3, Class-B, S1,
Casting body



List of Experiments

- 1) Starting by DOL Starter
- 2) Starting by Star-Delta Starter
- 3) Starting by reduced voltage starter.
- 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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