

DC Machines have been the running horse for the Industry since 100 Years, Where ever Heavy Torque is required Series motors are the option, these motors need load to start, these motors have the tractive effect & are even named as Traction motors, applications like railways, material handling machines use such motors.

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, Effects of Armature voltage, Behaviour with Load, Motor/Generator operation.

Technical Specs:

Power ratings available : 350W / 750W / 1KW / 2KW / 3KW / 5KW

Voltage Input: 220V DC

Armature : 220V DC

RPM: 1500 / 3000 RPM

Single / Double shaft extension, SPDP, IP23, IC01, B3, Class-B, S1, Solid yoke

List Of Experiments

- 1) Behavior of Resistance Cut off method of starting
- 2) Behavior of Voltage control method of starting
- 3) Speed Control
- 4) Load test & No load test of machine
- 5) Speed-Torque Analysis
- 6) Voltage-Speed Analysis
- 7) Efficiency Analysis
- 8) Analysis of Commutation
- 9) Cold Resistance & Hot Resistance
- 10) Motor Operation parameters
- 11) Generator Operation parameters
- 12) Basic Overhauling Know how

Note: Specifications are subject to change.

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