

Product Name :

Ac Synchronous Motor for Electronics labs for Teaching Equipments
Lab

Product Code :

LABS-EDU-0036



Description :

Ac Synchronous Motor for Electronics labs 3 Phase Synchronous Machine for Electrical Lab - This Model is the Educational model suitable for demonstrating to students the complete know of the Basics, Components, Starting methods, DC Speed locking, 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, Speed locking, Effect of rotor excitation, 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 & Additionally 110V DC for Rotor

RPM: 1440 / 2880 RPM

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

List of Experiments:

Starting by DOL Starter

Starting by reduced voltage starter.

Effect of High voltage induction at time of starting

DC Speed locking

Speed Control by VVVF method

Load test & No load test of machine
Speed-Torque Analysis
Voltage-Speed Analysis
Speed reversal
Efficiency Analysis
Blocked rotor test
Motor Operation
Generator Operation
Cold Resistance & Hot Resistance
Motor Operation parameters
Basic Overhauling Know how.

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