

**Product Name :**

3 Phase Synchronous Machine for Electrical Lab

**Product Code :**

ADM-009-NE



**Description :**

3 Phase Synchronous Machine for Electrical Lab for Electric Motors Teaching Labs - 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

## Naugra Export

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