

<b>Product Name :</b> Ac Synchronous Motor for Electronics labs for Teaching Equipments Lab	<b>Product Code :</b> LABS-EDU-0036
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**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.

## Naugra Export

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