



Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Synchronous Machine

**Product Code :**  
LBNY-0005-121000127



[www.laboratoryinstrumentindia.com](http://www.laboratoryinstrumentindia.com)

**Description :**

The Synchronous Machine is designed to operate as a motor or as an alternator. The rotor works as a square cage when starting and stopping. The three-stator windings are brought out to 4-mm separated terminals on the housing, so that they may be connected in wye or delta. The Synchronous Machine runs at constant speed independently of the load. The synchronous speed directly depends on the current frequency and on the number of motor poles. The trainer is also provided with supply terminals, a rheostat for control over the excitation current and a protective circuit breaker in the rotor circuit. Specifications and/or diagrams are silk-screened on the back of a clear-plastic front panel for ease of identification. The main characteristic of a Synchronous Machine is the possibility to change the power factor. Its stator is connected to an AC power supply and its rotor must be linked to a AC/DC rectifying unit. The trainer is protected by a either a diode or thermal-magnetic circuit breaker. Included in the Rotating Machines Trainer for 1/3 hp - 250 W. Requires a 120V 60Hz circuit.

**Technical Specification :**

**Educational Advantages:**

Designed to operate as a motor or as an alternator  
Included in the basic Rotating Machines Trainer (50016) for 1/3 hp - 250 W  
Its stator must be connected to the AC power supply  
Its rotor must be linked to the AC/DC rectifying unit and works as a square cage when starting and stopping.

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# Laboratory Instrument India

