



Designed & Manufactured By :

alfa electricals An ISO 9001:2008 Certified Co.

55, Krishna Estate, Plot No. 3606, Phase-4, G.I.D.C. Vatva,
Ahmedabad-382445. (Guj.) INDIA.

Tele Fax : 079 - 25840346

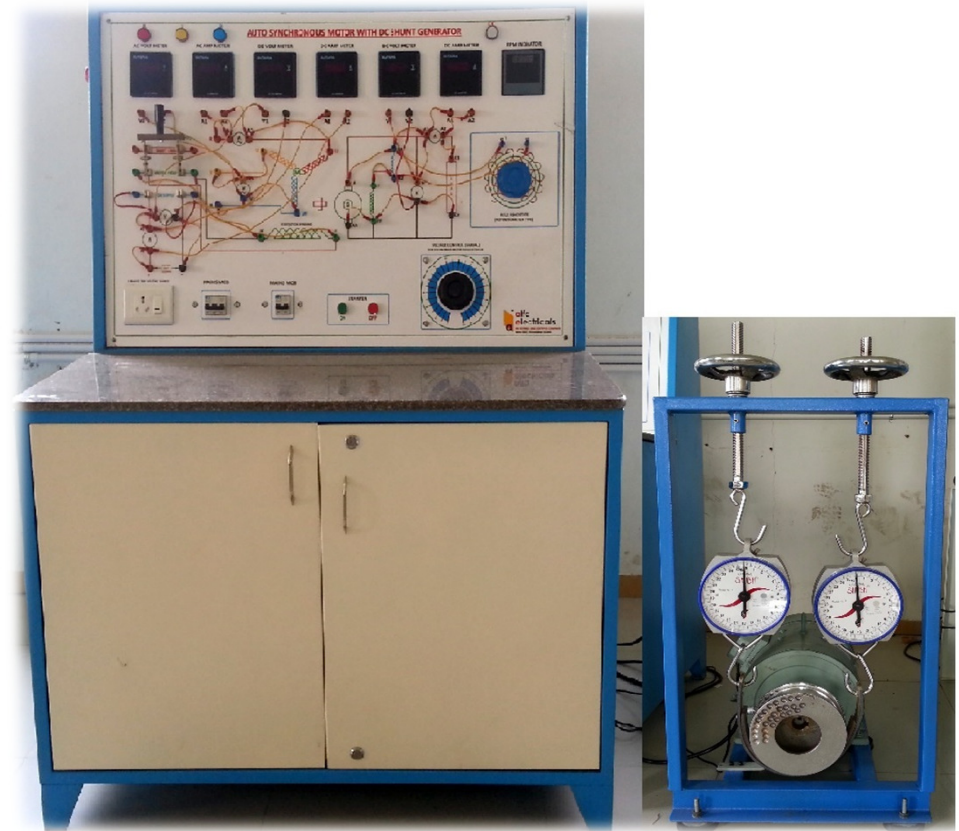
Cell : +91 84600 46799, +91 99242 99051

E-Mail : info@alfaelectricals.com, www.alfaelectricals.com

Synchronous Machine with Mechanical Brake Loading:

A synchronous electric motor is an AC motor in which, at steady state, the rotation of the shaft is synchronized with the frequency of the supply current; the rotation period is exactly equal to an integral number of AC cycles. Synchronous motors contain electromagnets on the stator of the motor that create a magnetic field which rotates in time with the oscillations of the line current. The rotor turns in step with this field, at the same rate.

The system is supplied along with Control Panel & Mechanical Brake Loading Arrangement mounted on heavy duty 'C' Chanel base Structure and anti-vibration pads. The Unique desing of Control Panel with demonstratative MMIC Diagram helps students to do connections and experiments themselves. Cylindrical type Rotor with separately excited distributed field winding, . Optional provision of Knife-Blade Switch to start the machine as an induction motor and the change over to synchronous speed by switching on DC supply/Synchronous motor starter. The system has scope to learn starting methods of Synchronous Motor, speed control of Synchronous Motor. No-Load Test, Load Test & Characteristic of Synchronous Motor.



Powder Coated Panel Structure, fabricated from high quality 16/18 SWG M S Sheet with in-built storage facility. Cost-Effective Table Top Panel, Customized & Tailor made design is also available as per specific requirement of the Customer.

Specifications :

Motor : SPDP SAPEX Foot Mounted

Type : Auto Synchronous with Damper Winding

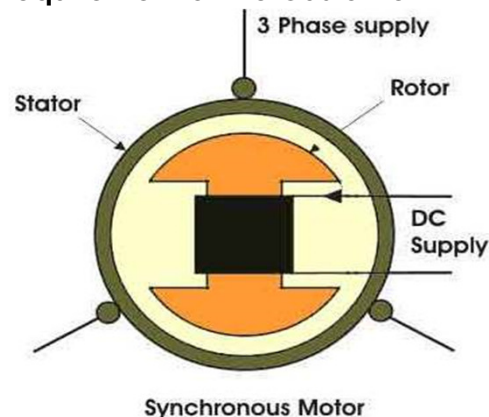
Ratings : 3 HP to 5 HP

Base Voltage : Three Phase AC 415V

Excitation : 0 - 180V DC Variable

Speed : 1500 RPM(or as Specified)

Insulation Class : B / F



Features :

100 % Copper Windings

Armature Stampings made from electrical grade Silicon Steel

Dynamically Balanced skewed Rotor for Noise & Vibration free operations

Dynamically Balanced loading drum pulley

Heavy duty 'C' chanel base structure with Anti-Vibration Pad

Easy Installation and Portability - No Civil Work or foundation required

Choice for Digital or Analog Meters

Mfg. of: All Types Of Electric Motors & Laboratoty Equipment for Educational Institutes.