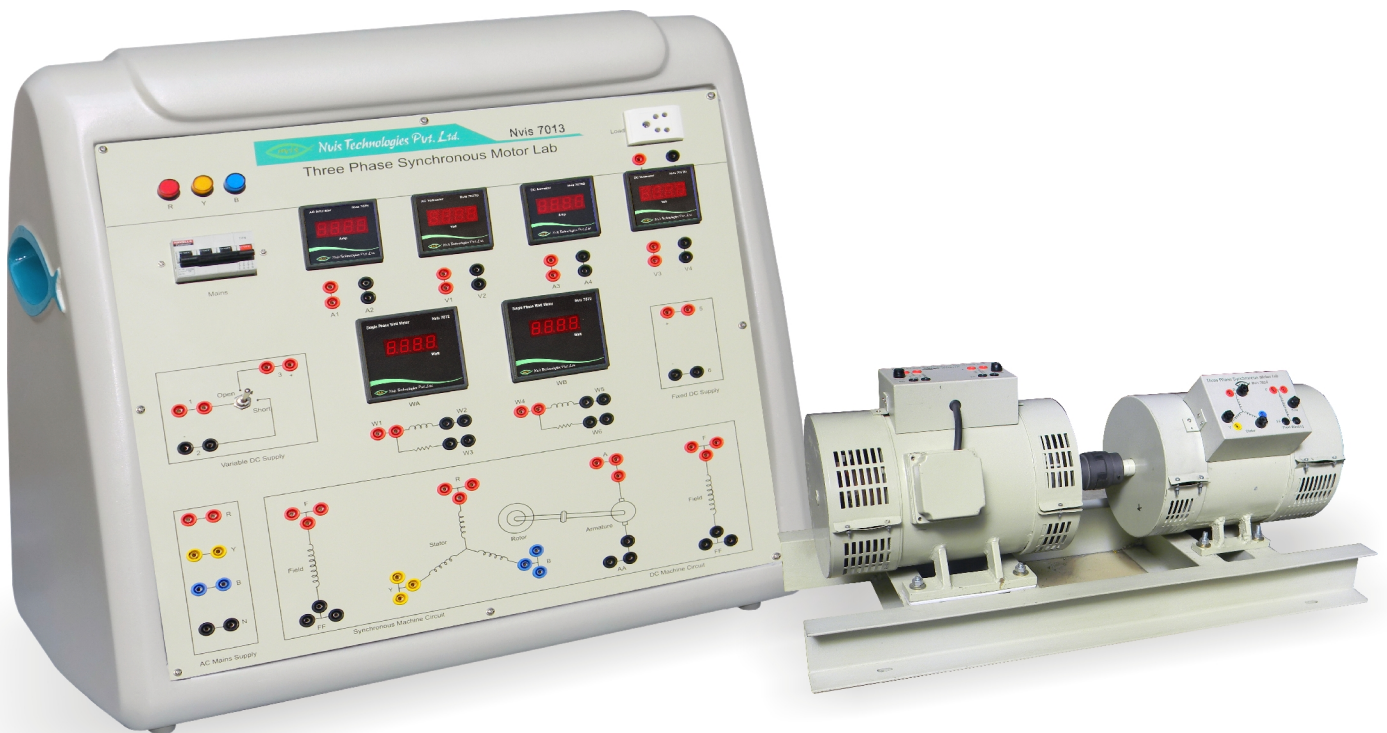




Three Phase Synchronous Motor Lab

Nvis 7013



Nvis 7013 Three Phase Synchronous Motor Lab is an adaptable Training System for the Electrical Laboratories. The product helps in getting fully acquainted with the basic concepts, functioning and operating principle of a Three Phase Synchronous Motor. The product includes experiment such as V and inverse V curve of synchronous motor. For engineering students it is important to know how the variation of field current can affect the power factor of the Synchronous Motor and hence improve the system's performance.

Separate terminals of windings brought out on a terminal box fitted on top of the motor so that one can connect them separately to the control panel and can perform experiment correspondingly. All protection circuits are in built. So there is very less chance of fault or danger to user. The varied scope of learning makes the subject easily understandable.

Features

- Flexible Shaft Coupling Arrangement
- Control board consist of high grade FRP material to provide utmost safety to the users
- Equipped with supply indication lamps
- Provided with Digital Tachometer
- Machine with Class "B" Insulation
- Heavy Duty Base/Channel
- Designed by considering all the safety standards
- Diagrammatic representation for the ease of connections
- Exclusive and Attractive Design
- Online Product Tutorial



Scope of Learning

- To study the V curve of Three Phase Synchronous Motor
- To study the Inverse V curve of the Three Phase Synchronous Motor

Technical Specifications

Mains Supply : Three Phase, 415V \pm 10%, 50Hz

Machines Specification (2 nos.)

Both the Machines are flexibly coupled and mounted on a M.S. channel base

Three Phase Synchronous Motor

Type	:	Salient Pole
Rating	:	3 HP
Voltage rating	:	415V \pm 10%
Speed	:	1500 RPM
Insulation	:	Class 'B'
Excitation Voltage	:	120V \pm 10%

DC Machine (Acts as Generator)

Type	:	Shunt
Rating	:	2 HP
Speed	:	1500 RPM \pm 5%
Insulation	:	Class 'B'

Digital Meters Used

AC Ammeter	:	10A
DC Ammeter	:	10A
AC Voltmeter	:	450V
DC Voltmeter	:	300V
Wattmeter	:	1500W (2nos.)

MCB (TPN) : 10A

Optional

Three Phase Variac 10A, DC Power Supply "Nvis 725/Nvis 725A" Resistive Load "Nvis 7067"