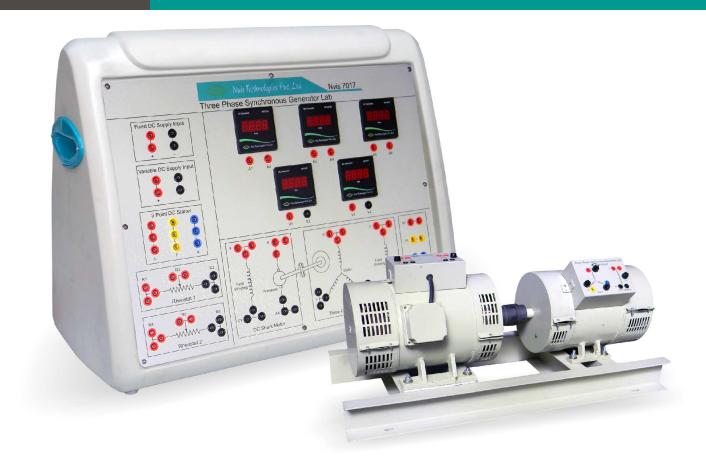


Three Phase Synchronous Generator Lab Nvis 7017



Nvis 7017 Three Phase Synchronous Generator Lab is an exclusive & important product designed to provide comprehensive learning about fundamental concepts and operating principles of Three Phase Synchronous Generator. Synchronous Generators are the primary source of electrical energy. These are used to convert mechanical power derived from (steam, gas, or hydraulic) turbine to ac electric power. The product provides hands-on experiments like Open Circuit Characteristic of Synchronous Generator and study of the relation between field current and armature voltage.

The product is very easy to use. 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's understanding complete.

Features

- Electrical loading arrangement
- Flexible shaft coupling arrangement
- Control board consist of high grade FRP material to provide utmost safety to the users
- Provided with Digital Tachometer
- Machine with Class "B" Insulation
- Heavy Duty Base/Channel
- Equipped with supply indication lamps
- Terminals provided to use the optional externally
- Equipped with supply indication lamps
- · Designed by considering all the safety standards
- Diagrammatic representation for the ease of connections
- Online Product Tutorial



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Scope of Learning

- To study the Open Circuit Characteristics (OCC) of Three Phase Synchronous Generator
- To study the short circuit characteristics (SCC) of three Phase Synchronous Generator

Technical Specifications

Machines Specification (2 nos.)

Both the Machines are Flexibly Coupled and Mounted on a M.S. channel Base

DC Machine (acts as Prime Mover)

Type : Shunt

Rating : 2HP

Voltage Rating : 220V ±10%

Speed : 1500 RPM

Insulation : Class'B'

Three Phase Synchronous Motor (acts as Generator)

Type : Salient Pole

Rating : 3HP

Voltage rating : 415V ±10%

Speed : 1500 RPM

Insulation : Class 'B'

Excitation Voltage: 120V

Digital Meters Used

DC Voltmeter : 300V

DC Ammeter : 10A, 5A

ACAmmeter : 10A

AC Voltmeter : 450V

Optional

DC Power Supply "Nvis 725", Rheostat 2.8A, 220 Ω