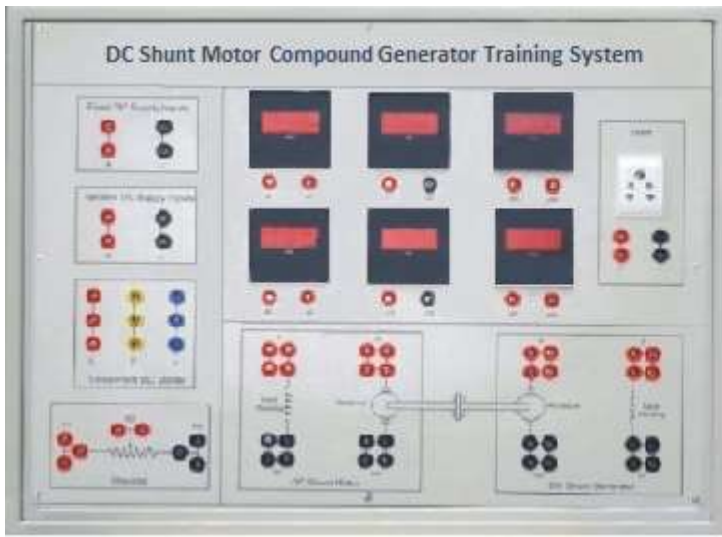




DC Shunt Motor Compound Generator Training System



** Shown image is just for illustration original may differ

Introduction

DC Shunt Motor Compound Generator Training System is a significant training system for Electrical Machine Laboratories to demonstrate the operational working and characteristic of DC Generators under different loading conditions. DC Compound Generator is a type of Generator whose field winding, shunt winding and armature winding are to be connected in different configuration and acquire properties for DC Series & Shunt DC Machine.

It includes various experiments to be conducted such as operational working behavior of DC Compound Generator, Open Circuit Characteristic, and Load Characteristic at different configuration, etc. Diagrammatic representations are provided on the control panel so that students can make connections by their own.

Product Features

- Machine with standard electrical loading arrangement through flexible lovejoy coupler
- Machine winding consist of copper for long term service
- Machine Conforms to all leading industrial standards with Class "B/F" Insulation
- Heavy Duty Base/Channel with facility to concrete machine using suitable heavy nuts and bolts
- Provided with contact type Digital speed measuring equipment
- Inbuilt DC Drive of suitable rating with overload protection
- Control board with door at the rear side for protection purpose.
- Control panel with digital microcontroller based measuring devices with high accuracy and resolution
- Front board consist of MS Material with power coating / epoxy paint to avoid any rust
- Provided with suitable protection such as fuses, MCB, etc wherever requires
- Specially designed BS10 Terminals and patch cords for electrical safety
- Lamp indication for single phase supply
- Earthing screw provided at the back side of the control set-up
- Screen printed diagrammatic representation for the ease of connections.
- Product should be provided with protection fuses, colored patch cords, single phase phase cords, learning manual having theory operating procedure with connecting diagram, FAQ, Glossary, etc

Technical Specifications

Operation Voltage of Control Panel : 220VAC \pm 10%, 50Hz

Machine Specifications

Both the machines are flexibly coupled and mounted on a "C" Channel base

DC Machine (Act as prime mover)

Type : Shunt
Voltage Rating : 220VDC \pm 10%
Speed : 1500 rpm \pm 10% at load
Insulation : Class 'F'
Winding : Copper

Duty	: Continuous
Enclosure	: SPDP
Mounting	: Horizontal foot mounted
Shaft Extension	: Single Sided
Loading arrangement	: Electrical
DC Machine (Act as generator)	
Type	: Compound
Rating	: ½ HP to 3HP
Generated Voltage Rating	: 220VDC ± 10% at load
Speed	: 1500 rpm ± 10%
Insulation	: Class 'F'
Winding	: Copper
Duty	: Continuous
Enclosure	: SPDP
Terminals box top	: Powder coated/epoxy paint with terminals and fuses brought out at the top
Machine Base	: MS "C" Channel with suitable interconnection
Digital Meters used	
DC Voltmeter	: 300V (2nos)
DC Ammeter	: 20A (3nos)
DC Power Supply	
Output Fixed voltage	: 200VDC ± 10%
Output Variable voltage	: 0 - 240VDC ± 10%
Current Rating	: Based on Power Rating of Machine
Protection	: Overload Protection
Digital Tachometer	
Range	: 19,999 rpm
Type	: Contact / Non-contact
Protection Devices	
MCB (DP)	: 1No
Glass Fuse	: 3Nos
Grounding Nut	: Available at the rear side of the panel

Experiments Can be performed:

- Study of DC Compound Generator
- Study Load Characteristics of Short Shunt DC Compound Generator
- Study Load Characteristics of Long Shunt DC Compound Generator
- Study Load Characteristics of Cumulative DC Compound Generator
- Study Load Characteristics of Differential DC Compound Generator

Supporting Accessories supplied with Product

- Patch Cords of different color scheme
- Single Phase Mains Cord
- Extra Glass Fuses
- Operating Manual (softcopy)
- Digital Tachometer

Optional Accessories

- Resistive Load (based on machine rating)

****Please feel free to share your queries or requirements by filling your details in ask query section or request a Quote section on the website, we will be happy to cater your requirement.**