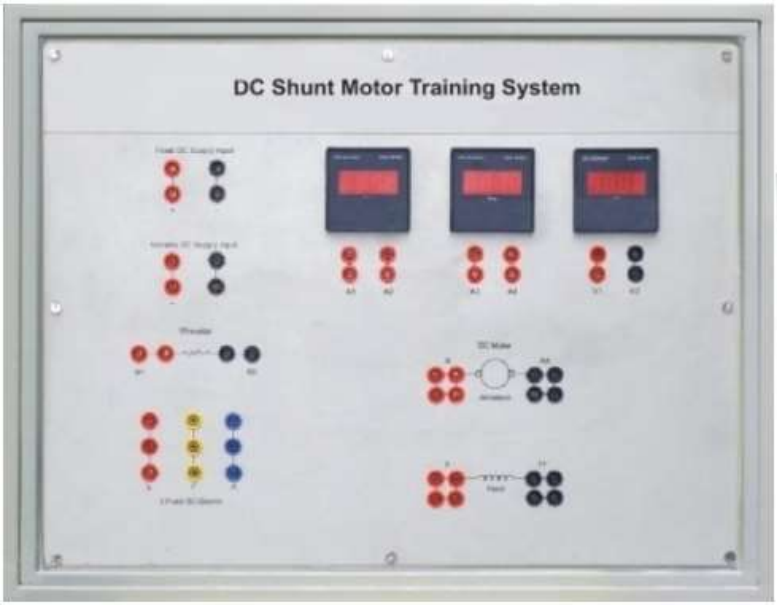
DC Shunt Motor Training System



** Shown image is just for illustration original may differ

Introduction

DC Shunt Wound Motor Training System is an important and exclusively designed product for electrical laboratories. DC Machines are an important part of Electrical Engineering Syllabus. It provides complete learning contents to enhance practical knowledge and explains students the fundamental concepts of DC Shunt Machine.
It can aptly be employed for performing various exercises like Motor Starting, Speed Control through armature and flux field control method & load Characteristics etc. Thus the product makes the subject completely understandable.

Product Features

- Machine with standard mechanical loading structure
- Machine with standard tabular spring balance with zero adjustment facility
- Machine winding consist of copper for long term service
- Machine Conforms to all leading industrial standards with Class “F” Insulation
- Brake-Drum/Pulley (Aluminum or MS Casting) with heat suppression facility inside it
- Provided with non contact/contact type Digital speed measuring equipment
- Inbuilt DC Power Drive of suitable rating with overload protection
- Heavy Duty Base/Channel with facility to concrete machine using suitable heavy nuts and bolts
- 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
- Screen printed diagrammatic representation for the ease of connections.
- Product provide with protection fuses, colored patch cords, single phase cords, learning manual contents having theory, operating procedure with connecting diagram, FAQ, Glossary, etc

Technical Specifications

Operation Voltage of Control Panel	: 220VAC ± 10%, 50Hz
DC Machine	
Type	: Shunt
Power Rating	: 0.5HP to 3HP
Voltage Rating	: 220VDC ± 10%
Field Excitation	: 200VDC ± 10%
Speed	: 1500 rpm ± 10%
Insulation	: Class ‘F’
Winding	: Copper
Duty	: Continuous

Enclosure	: SPDP
Mounting	: Horizontal foot mounted
Shaft Extension	: Single Sided
Loading arrangement	: Mechanical
Brake Drum/Pulley	: MS/Aluminum Casted with heat suppression facility inside it
Spring Balance	: 2Nos. (Salter make)
Loading Nut & Bolts	: Brass material
Terminals box	: 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
DC Ammeter	: 20A (2 nos)
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:

- Running and reversing phenomenon
- Study of self excited DC Shunt Motor
- Study of Separately Excited DC Shunt Motor
- Study of no load characteristic of DC Shunt Motor
- Study of Load Characteristic of DC Shunt Motor
- Speed Control of DC Shunt Motor by Field Current control Method
- Speed Control of DC Shunt Motor by Armature Voltage Control method

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 (On Additional Cost)

- Rheostat, 2.8A, 220Ohms

****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.**

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