

Order Code – 23246813.1 DC Motor Training System



DC 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 Machine.

It can aptly be employed for performing various exercises like Motor Starting, no load and load Characteristics etc. Thus the product makes the subject completely understandable.

# 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
- Provided with non contact/contact type Digital speed measuring equipment
- Inbuilt DC Power Drive of suitable rating
- Heavy Duty Base/Channel
- Control panel with digital microcontroller based measuring devices
- 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

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

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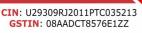


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## **Technical Specifications:**

- Operation Voltage of Control Panel
- DC Machine
- Type
- Power Rating
- Voltage Rating
- Field Excitation
- Speed
- Insulation
- Winding
- Shaft Extension
- Loading arrangement
- Brake Drum/Pulley
- Spring Balance
- Loading Nut & Bolts
- Terminals box
- Machine Base

### **Digital Meters used**

- DC Voltmeter
- DC Ammeter

### **DC Power Supply**

- Output Fixed voltage
- Output Variable Voltage
- Current Rating

### **Digital Tachometer**

- Range
- Type

#### **Protection Devices**

- MCB (DP)
- Glass Fuse
- Grounding Nut

## Scope of Learning

- Running and reversing phenomenon of DC Motor
- Study of no load characteristic of DC Motor at different configurations
- Study of Load Characteristic of DC Motor at different configurations

## Supporting Accessories supplied with Control Setup

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

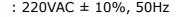
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- : Shunt, Series & Compound configured
- : 1HP
- : 220VDC ± 10%
- : 200VDC ± 10%
- : 1500 rpm ± 10%
- : Class `F'
- : Copper
- : Single Sided
- : Mechanical
- : Yes
- : 2Nos.
- : Yes
- : Powder coated/epoxy paint with terminals
- : MS "C" Channel with suitable interconnection
- : 300V
- : 20A (2 nos)
- : 200VDC ± 10%
- : 0 240VDC ± 10%
- : Based on Power Rating of Machine
- : 19,999 rpm
- : Contact / Non-contact
- : 1No
- : 2Nos.
- : Available at the rear side of the panel

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