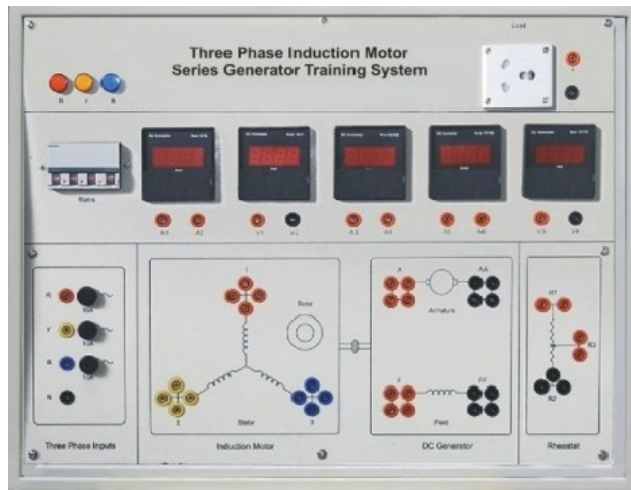


Three Phase Induction Motor DC Series Generator Training System



** Shown image is just for illustration original may differ

Introduction

Induction Motor Series Generator Training System is a significant training system for Electrical Machine Laboratories to demonstrate the operational working and characteristic of DC Series Generators under different loading conditions. DC Series Generator is a type of Generator whose field winding and armature winding are connected in series. It includes various experiments to be conducted such as operational working behavior of DC Series Generator, Open Circuit Characteristic, and Load Characteristic etc. Diagrammatic representations are provided on the control panel so that students can make connections by their own. It includes, three phase DOL starter, digital panel meters to obtain precise results.

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
- 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
- Three Phase Supply indication lamps
- Inbuilt AC DOL Starter which start and protect the machine from overload condition
- 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 & three phase cords, learning manual having theory operating procedure with connecting diagram, FAQ, Glossary, etc

Technical Specifications

Operation Voltage of Control Panel : 415VAC ± 10%, 50Hz

Auxiliary Supply of Control Panel : 230VAC ± 10%, 50Hz

Machine Specifications

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

AC Machine (Act as prime mover)

Type : Three Phase squirrel cage induction motor

Voltage Rating : 415VAC ± 10%, 50Hz

Speed : 1440 rpm ± 10%

Insulation	: Class 'F'
Winding	: Copper
Duty	: Continuous
Enclosure	: TEFC
Mounting	: Horizontal foot mounted
Shaft Extension	: Single Sided
Loading arrangement	: Electrical
DC Machine (Act as generator)	
Type	: Series
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	: Powder coated with terminals and fuses brought Out at the top
Machine Base	: MS "C" Channel with suitable interconnection
Digital Meters used	
AC Voltmeter	: 500V
AC Ammeter	: 10A
DC Voltmeter	: 300V
DC Ammeter	: 20A
AC Starter	
Type	: DOL Starter (L&T / Siemens Make)
Digital Tachometer	
Range	: 19,999 rpm
Type	: Contact / Non-contact
Protection Devices	
DOL Starter	: 1No
Glass Fuse	: 3Nos
Grounding Nut	: Available at the rear side of the panel

Experiments Can be performed:

- Study of DC Series Generator
- Study of No Load Characteristics of Self Excited DC Series Generator
- Study of Load Characteristics of Self Excited DC Series 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 (On Additional Cost)

- Resistive Load (based on machines 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.**