



46599 Induction Motor Series Generator Lab is a training system designed to provide comprehensive learning and functioning of a DC Series Generator. It can be used for performing various experiments like Operating Characteristics, Terminal Voltage v/s Armature current (V-I) Characteristics and Load Characteristics, etc. All protection circuits are inbuilt, so there is very less chance of fault or danger.

Features

- Electrical Loading Arrangement
- Flexible shaft coupling arrangement
- Provided with Digital Tachometer
- Machine with Class "B" Insulation
- Heavy Duty Base/Channel
- Equipped with supply indication lamps
- Designed by considering all the safety standards
- Diagrammatic representation for the ease of connections
- Exclusive and Compact Design
- Learning material CD
- 2 Year Warranty

Scope of Learning

- Study & verify No-Load Characteristics of DC Series Generator
- Study & verify Load Characteristics of DC Series Generator



Software window showing DC Machine cut-set view

Technical Specifications

Mains Supply : Three Phase, 415V±10 %, 50Hz
Machine Specifications

Both the Machines are flexibly coupled and mounted on a 'C' Channel base

Three Phase Induction Motor (acts as prime mover)

Type : Squirrel Cage

Rating : 2HP

Voltage Rating : 415V AC

Speed : 1440 RPM (no load)

Insulation : Class 'B'

DC Machine (acts as generator)

Type : Compound

Rating : 1HP (also available with 2HP & 3HP)

Speed : 1500 RPM (no load)

Insulation : Class 'B'

Analog Meters used

DC Voltmeter (MC) : 300V (2 Nos.)

DC Ammeter (MC) : 5A (2 Nos.)

AC Voltmeter (MI) : 500V

AC Ammeter (MI) : 5A

MCB (TPN) : 10A

Dimensions (mm) : W 600 x D 450 x H 600 (Control Panel)

W 170 x D 900 x H 285 (MG set)

Weight : 17kg (approx.) (Control Panel)

53kg (approx.) (MG Set)

Optional

Three Phase Variac, 10A

Rheostat 5A, 110

Resistive Load

(for machines rated upto 1HP/3HP respectively)

Note: Specifications are subject to change.

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