Induction Motor Series Generator Lab

Nvis 7030

Nvis 7030 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
- Control board consist of high grade FRP material to provide utmost safety to the users
- 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
- Product Tutorial (CD)

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Scope of Learning

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

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	: 2 HP
Voltage Rating	: 415V AC ±10%
Speed	: 1440 RPM ±5%
Insulation	: Class 'B'

DC Machine (acts as generator)

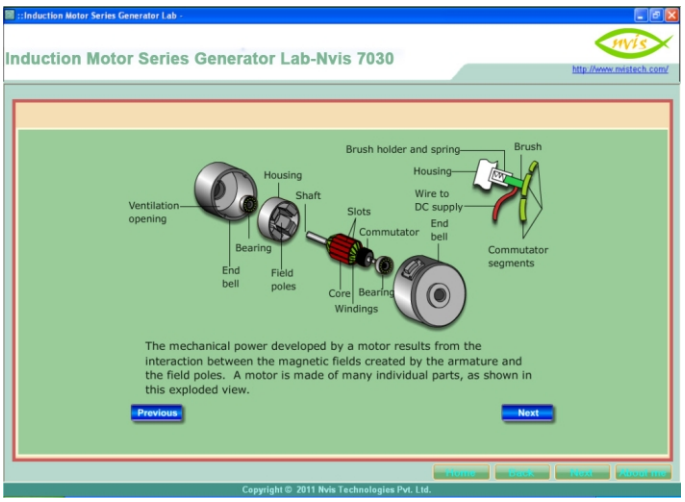
Type	: Series
Rating	: 1HP (also available with 2 HP)
Speed	: 1500 RPM ±7.5%
Insulation	: Class 'B'

Digital Meters used

DC Voltmeter	: 300V
DC Ammeter	: 5A
AC Voltmeter	: 450V
AC Ammeter	: 5A
MCB (TPN)	: 10A
Digital Tachometer	: 20,000 RPM

Optional Accessories

- Three Phase Variac, 10A
- 220 Ohms, 2.8A Rheostat
- Resistive Load "Nvis 726/ Nvis 7067" (for Machines rated upto 1HP/2H Prespectively)



Software window showing DC Machine cut-set view

Subject to Change

Designed and Manufactured in India by -

Nvis Technologies Pvt. Ltd.

141-A, Electronic Complex, Pardesipura, Indore-452010, India.

✆ +91-731-4211500, ✉ info@nvistech.com, 🌐 www.NvisTech.com

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