



DC Series Motor Shunt Generator Lab

Nvis 7029



Nvis 7029 DC Series Motor Shunt Generator Lab is a significant training system for Electrical Machines Laboratories designed to demonstrate the operational working and characteristic of DC Shunt Generator under different loading conditions. DC Shunt Generator is a type of Generator whose field winding and armature winding are connected in parallel and acquire properties to behave as almost constant speed DC Machine.

Nvis 7029 includes various experiments to be conducted such as operational working behavior of DC Shunt Generator, Open Circuit Characteristic, Internal and External Characteristics etc. Diagrammatic representations are provided on the control set-up so that students can make connections by their own. Nvis 7029 includes digital panel meters to obtain precise results. Separate terminals are provided to connect the optional accessories externally to the control setup with ease.

Features

- Provided with Digital Tachometer
- Electrical Loading Arrangement
- Flexible Shaft Coupling Arrangement
- Control board consist of high grade FRP material to provide utmost safety to the users
- Good quality digital panel meters
- Designed by considering all the safety measures
- Specially designed patch cords for safety purpose
- Diagrammatic representation for the ease of connections
- Product Tutorial (CD)

Scope of Learning

Study and measurement of:

- Open Circuit Characteristic of DC Shunt Generator
- Internal Characteristic of DC Shunt Generator
- External Characteristic of DC Shunt Generator

Technical Specifications

Machines Specifications

Both the Machines are flexibly coupled and mounted on a "C" channel base

DC Motor (acts as prime mover)

Type	: DC Series
Power Rating	: 2HP
Voltage Rating	: 220V, $\pm 10\%$
Speed	: 1500 rpm $\pm 5\%$
Insulation Class	: "B"

DC Machine (acts as Generator)

Type	: DC Shunt
Power Rating	: 1HP (also available with 2HP)
Rated Current	: 4.1A
Speed	: 1500 rpm $\pm 7.5\%$
Insulation Class	: "B"

Digital Meters used

DC Voltmeter	: 300V (2 nos.)
DC Ammeter	: 10A, 5A (2 nos.)
Digital Tachometer	: 20,000 RPM

Include Accessories

- DC Supply "Nvis 725A"
- 220 Ohms, 2.8A Rheostat
- Resistive Load "Nvis 726/Nvis 7067" (for Machines rated upto 1HP/ 2HP respectively)

Designed & 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