



Ward Leonard Method of DC Machine

Nvis 7036



Nvis 7036 Ward Leonard Method of DC Machine is an elite training system for Electrical Laboratories. The product helps you to get fully acquainted with the basic concepts and functioning of a DC machines.

The product demonstrates the Ward-Leonard Method of DC Machine through which user can not only operate but also control the speed of DC Machine in either direction without using DC supply.

Separate terminals of Armature and Field windings are brought out on a terminal box fitted on top of the Motor so that one can connect them separately to the panel and can perform experiment correspondingly.

Reverse connecting Switch is provided to control the speed of DC Motor in either direction. The trainer thus provides explicit understanding of the subject. All protection devices are in built so there is almost no chance of fault or danger to user.

Features

- Exclusive and Compact Design
- 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
- Terminals Provided to Use the Optional Externally
- Equipped with Supply Indication Lamps
- Designed by Considering all the Safety Standards
- Diagrammatic Representation for the Ease of Connections
- Online product tutorial



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Scope of Learning

- Study of the speed control of Separately Excited DC Shunt Motor in either direction by Ward Leonard Method

Optional

Three Phase Variac and Rheostat

Technical Specifications

Mains Supply : Three Phase, 415V, $\pm 10\%$, 50Hz

Machines Specification (2 Nos.)

Both the Machines are flexibly coupled and mounted on a M.S. channel base acts as a Motor Generator set

Three Phase Induction Motor acts as a Prime Mover

Type	: Squirrel Cage
Rating	: 1 HP (also available with 2HP and 3HP)
Voltage Rating	: 415V
RPM	: 1440 (No Load)
Insulation	: Class 'B'

DC Machine

Type	: Shunt
Rating	: 1HP
Voltage Rating	: 200V
RPM	: 1500 (No Load)
Insulation	: Class 'B'

Extra DC Machine for which the speed can be Controlled using Motor Generator set.

Type	: Shunt
Rating	: 1/2 HP
Voltage Rating	: 200V
RPM	: 1500 (No Load)
Insulation	: Class 'B'

Meters used

Voltmeter (MC)	: 1 No.
Ammeter (MC)	: 2 Nos.

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

Weight

Panel	: 18kg (approximate)
MG Set	: 40kg (approximate)
Motor	: 23kg (approximate)

