



OMEGA TYPE 20 106 DC Series Machine Lab is an important and exclusively designed product for electrical laboratories. DC Machines are an important part of Electrical Engineering Syllabus. This panel plays a vital role in letting the students have a basic knowledge about the operating principle of DC machine. It provides complete learning contents to enhance practical knowledge and explains students the fundamental concepts of DC Series Machine. This product includes experiments such as operating characteristic and speed controlling of DC Series Machine. Students can get aware of the methods through which the speed of the DC Series Motor can be controlled. The training system includes terminals for Rheostat and Starters so that these devices can be connected externally to the panel. All connections and appearance of panel are designed in a manner that students can make connections by themselves. All protection circuits are in built so there is almost no chance of fault or danger to user.

FEATURES:

- 01 Machine with Mechanical Loading Arrangement
- 02 Provided with Digital Tachometer
- 03 Machine with Class B Insulation
- 04 Heavy Duty Base/Channel
- 05 Brake Drum/Pulley with heat suppression facility
- 06 Equipped with supply indication lamps
- 07 Designed by considering all the safety standards
- 08 Diagrammatic representation for the ease of connections
- 09 Exclusive and Compact Design

OBJECTS:

- 01 Study of Operating Characteristics of DC Series Motor
- 02 Study of Speed Control of DC Series Motor using Field Current Control
- 03 Study of Speed Control of DC Series Motor using Armature Voltage Control

TECHNICAL SPECIFICATIONS:

- 01 AC/DC Operating Voltage Required.
 - Input Mains : 230V AC \pm 10%, 50Hz
 - Fixed DC output : 200V
 - Variable DC output : 0 - 200V
- 02 DC Machine
 - Type : Series
 - Rating : ½HP
 - Voltage rating : 200V
 - Speed : 1500 RPM (at load)
 - Insulation : Class 'B'
- 03 Loading Arrangement : Mechanical
- 04 Brake Drum/Pulley : Aluminum Casted
- 05 Digital Meter 3½ Digit used
 - DC Voltmeter : 300V
 - DC Ammeter : 5A (2 Nos.)
- 06 Digital Tachometer : 20,000 RPM
- 07 Dimensions panel : W 600 x D 350 x H 450 (mm)
- 08 Dimensions motor : W 335 x D 450 x H 560 (mm)

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.