

A PMDC (Permanent Magnet DC motor) is a kind of DC motor that includes a permanent magnet rather than field winding to form the magnetic field necessary for the DC motor operation. The PMDC motor is one of the most preferred motor for the electric vehicle application due to its traction characteristics such as high starting torque, high power density and good efficiency.

Mine MI-EV14 PMDC Machine Trainer is an important and exclusively designed product for electrical laboratories. PMDC Machine is an important part of Electrical

Engineering Syllabus considering upgraded technologies. This product plays a vital role in letting the students have a basic knowledge about the operating principle of PMDC machine. It provides complete learning contents to enhance practical knowledge and explains students the fundamental concepts of PMDC Machine.

Applications



Features

- Heavy Duty Base/Channel.
- Designed by considering all the safety standards.
- Diagrammatic representation for the ease of connections.
- Machine with Mechanical Loading Arrangement.
- Provided with Digital Tachometer.
- Motor Assembly Mechanical Arrangement for Experiments.

Experiments

- Study of Motors.
- Study of PMDC Motor and its construction.
- Study of PWM Speed Control.
- Study the N-T (Speed -Torque) characteristic of PMDC motor.
- Study of running, reversing of PMDC motor.

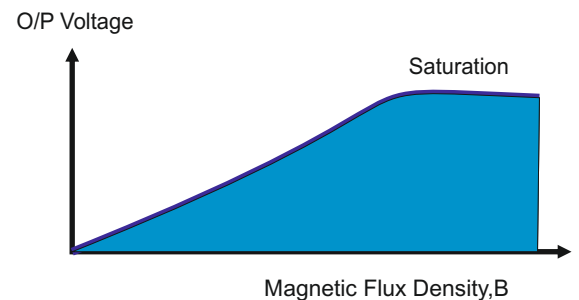
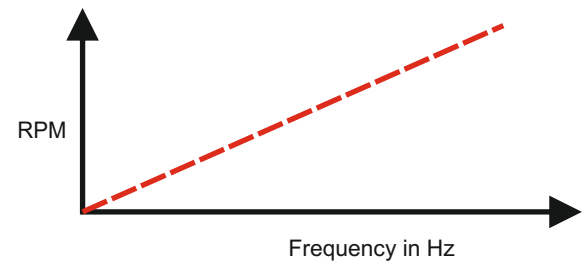
Technical Specifications

DC Machine

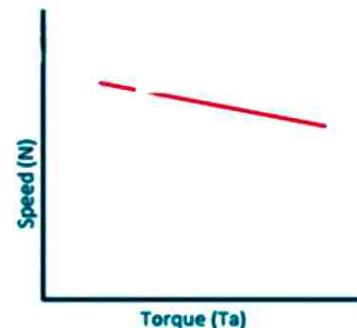
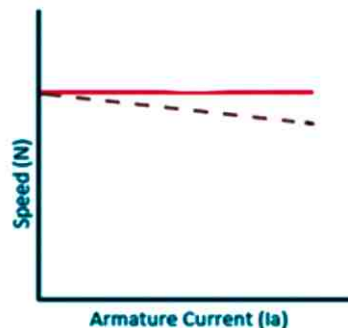
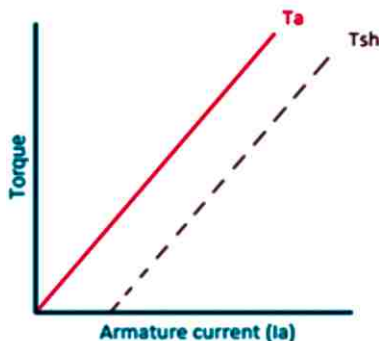
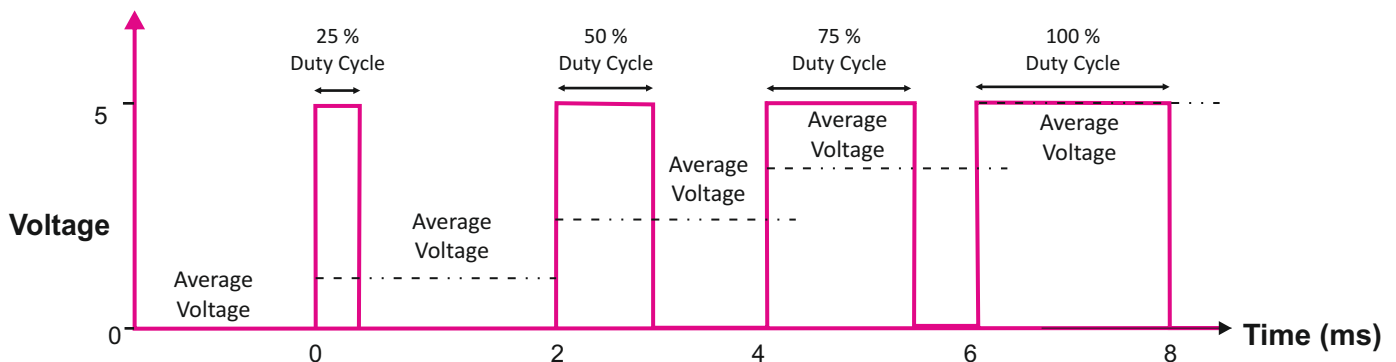
Type	:	PMDC Motor
Rating	:	1HP
Voltage Rating	:	180V $\pm 10\%$
Speed	:	1500RPM $\pm 10\%$
Loading Arrangement	:	Mechanical
Break Drum/Pulley	:	Aluminum Cast

On board Digital Panel Meters

DC Voltmeter (1 nos)	:	0-500V
DCAmmeter (1 nos)	:	0-20A
Digital RPM Meter (0-9999 rpm)	:	1 nos.
DC Drive	:	0-180V (variable), Inside of Trainer
Inter connection	:	4mm Patch cord
Spring Balance	:	2nos.



Waveforms



Accessories

- Operating Manual-1nos.
- Patch Cord-10 nos.
- Wall poster with attractive study content - 2Qty.



User Manual

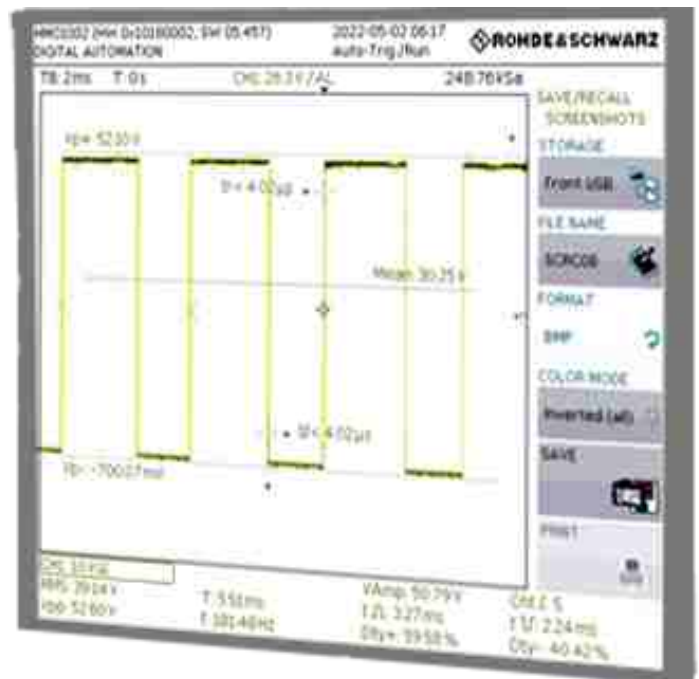
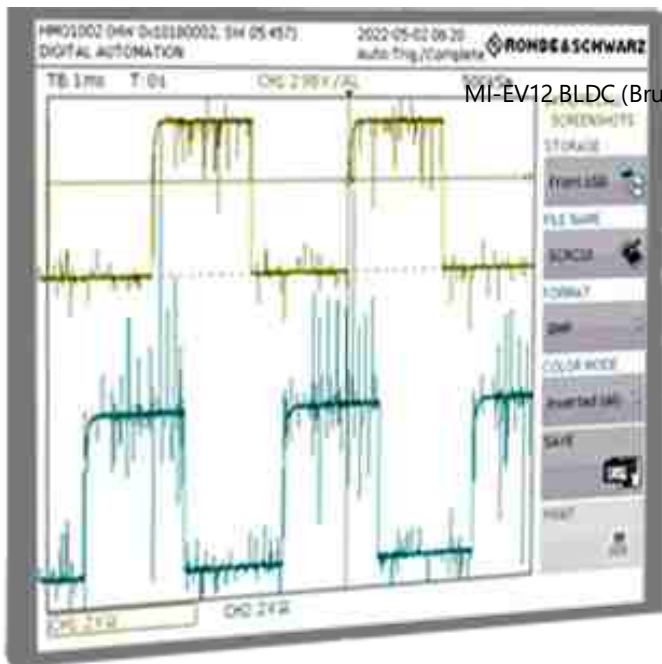
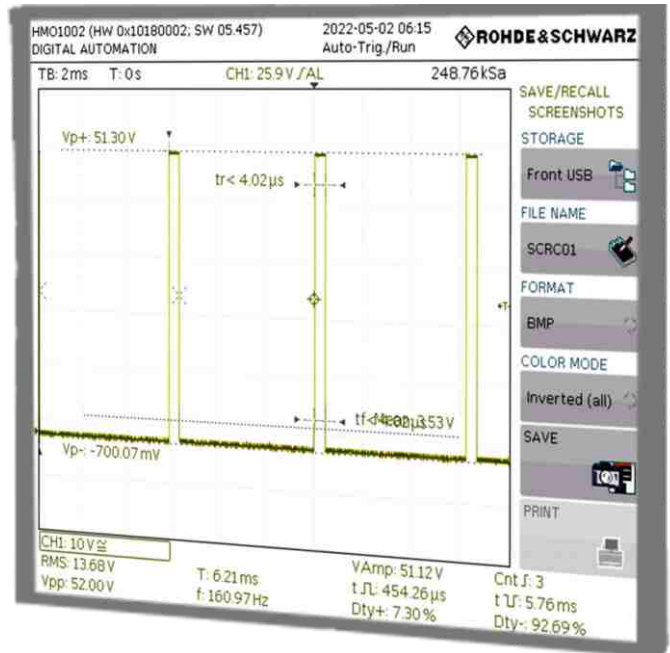
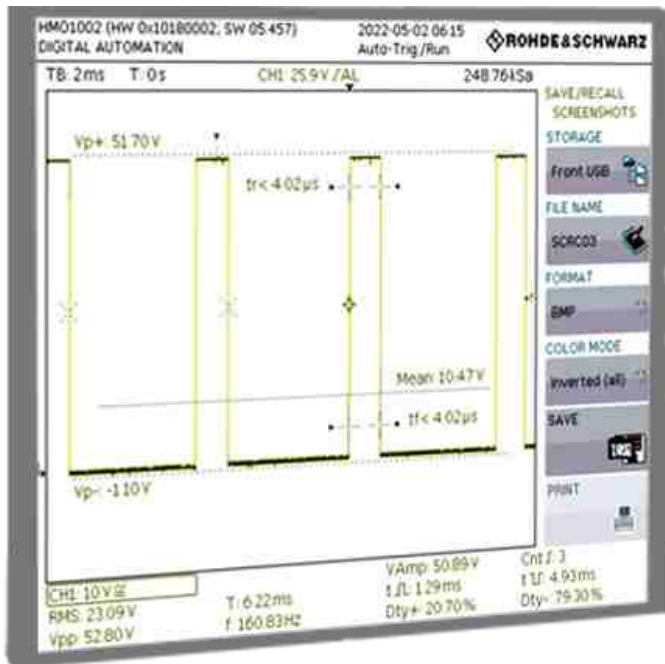


Power Cable



Patch Cord

Real Time signal Images of PWM in EV-13



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