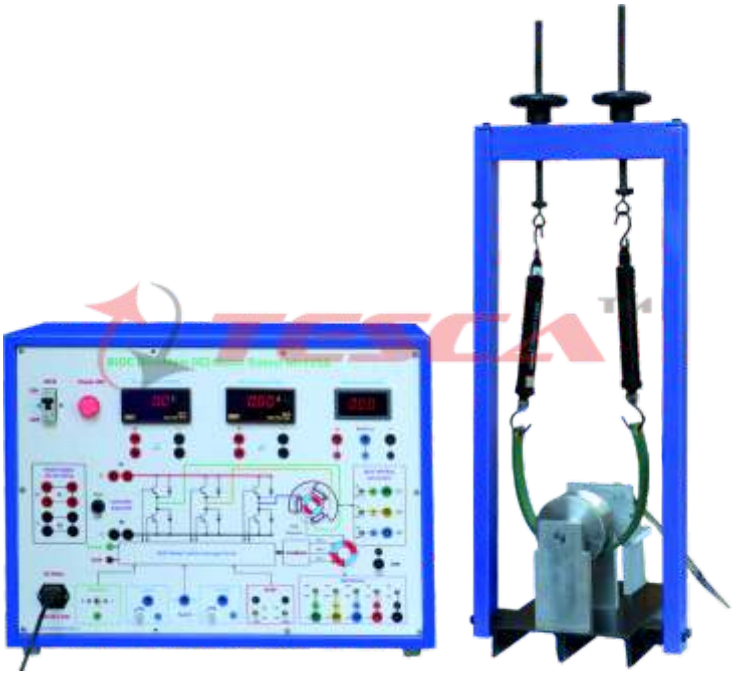
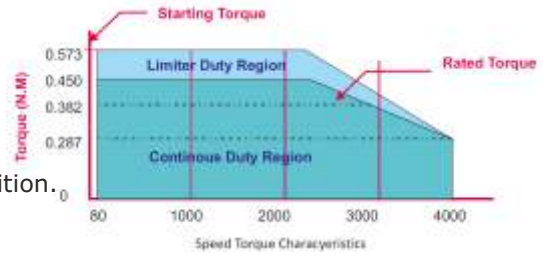


A motor converts supplied electrical energy into mechanical energy. Various types of motors are in common use. Among these, brushless DC motors (BLDC) feature high efficiency and excellent controllability, and are widely used in many applications. The BLDC motor has power-saving advantages relative to other motor types. Trainer kit consist a BLDC Motor with Controller help students to learn about operations and working of BLDC Motor.

Features

- Diagrammatic representation for the ease of connections.
- Designed by considering all the safety standard.
- Metallic Body.
- Machine with Mechanical Loading Arrangement.
- Exclusive and Compact Design.
- Motor Assembly Mechanical Arrangement for Experiments.



Experiments

- Explain working and Construction of a BLDC Motor.
- Explain working of Hall Sensor.
- Draw N-T (Speed-Torque) characteristic of BLDCMotor.
- Find out BLDC Motor efficiency at different type of load condition.
- Perform running, reversing operation in a BLDC motor.
- Observe PWM Signal using DSO during Speed Control.

Applications

Note: Specifications are subject to change.

25.10.2024
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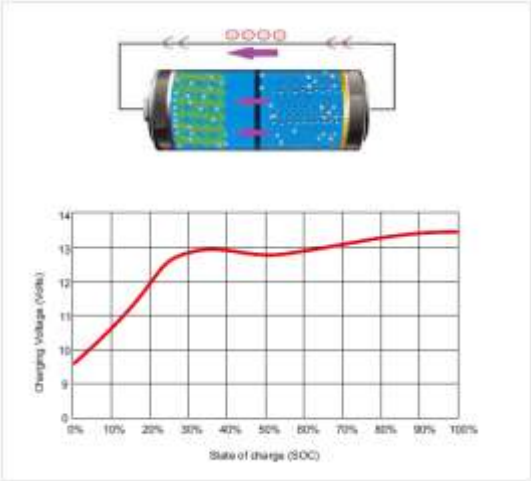
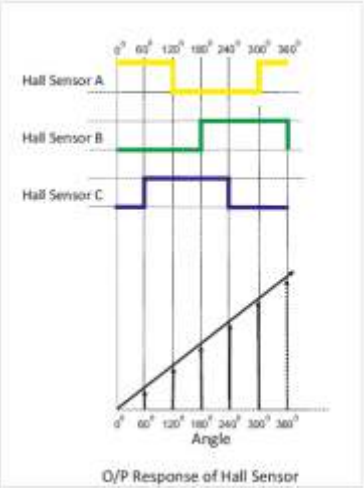
O/P Responses





O/P Response of Hall Sensor

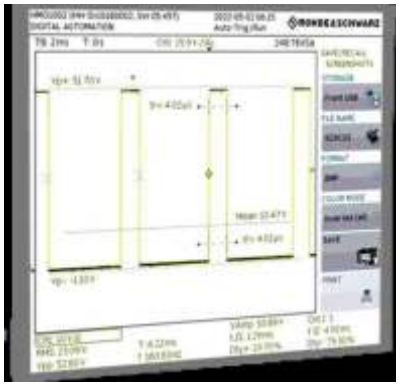
Technical Specifications

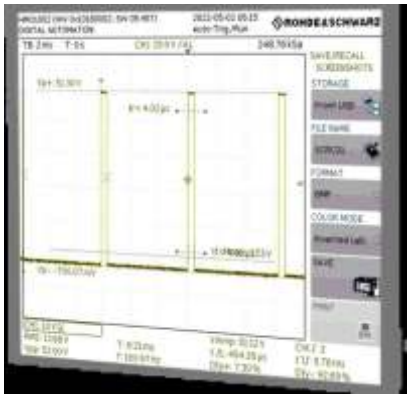
Machine Type	:	BLDC Motor
Rating	:	220W approx.
Voltage Rating	:	24V
Speed	:	3000 rpm ± 10%
Loading arrangement	:	Mechanical
Brake Drum/Pulley	:	Aluminum casted
DC power supply	:	24V, 10Amp.
On board Digital Panel Meters		
DC Voltmeter (1 nos)	:	0 - 300V
DC Ammeter (1 nos)	:	0 - 10A
Digital RPM Meter (0-9999 rpm)	:	1 nos.
Speed Controlling Method	:	PWM
Spring Balance	:	2 nos.
DC Supply 24V 10 Amp	:	1nos.
Inter connection	:	4mm Patch cord
Motor Assembly	:	1 nos.
Motor Controller	:	Inside of Trainer

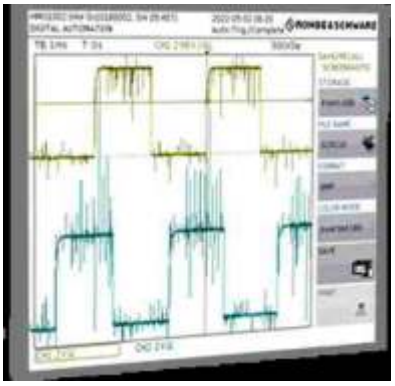
Accessories

- Operating Manual-1nos.
- Patch Cord-15 nos.
- Wall poster with attractive study content - 2Qty.

Real Time signal Images of PWM







Note: Specifications are subject to change.

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