



DC SERVO MOTOR (SPEED TORQUE) TRAINER

MODEL-SCM09

This trainer has been designed with a view to provide practical and experimental Knowledge of Speed-torque characteristics of DC Servo Motor.

FEATURES

1. All components are soldered on hollow tags of 0.25" diameter height of 0.4" on the front side of PCB
2. The complete circuit diagram is screen printed on component side of the PCB with circuit and parts at the same place.
3. The true value of component is printed on component side.
4. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement
5. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.
6. The testing points are provided with 1.25" tags to connect CRO probe
7. All Trainers are operated on 230V AC mains and must be self-contained unit.

SPECIFICATIONS

1. Completely self-contained stand-alone unit.
2. Demonstrates the speed torque characteristics of an DC servomotor.
3. Specially designed two phase DC servomotor with required power supplies.
4. Speed control of DC servomotor by changing the control winding voltage.
5. Measurement of the back EMF of a motor coupled to the servomotor.
6. Loading of the DC servomotor by a coupled DC motor with variable speed control. (Variable load).
7. Non-contact type tachometer for measuring the speed of the DC servomotor and is indicated by an analog RPM meter.
8. Current meter to indicate the armature current of the DC servomotor.
9. Calculation of Torque in terms of current (1a) and back EMF (Eb) using the Torque formula.
10. Plotting the characteristics of Speed V/s Torque.
11. Multicolored test points are provided at various stages in the circuit to observe the voltages & waveforms.
12. Standard Accessories : 1. Operating cum teaching manual
2. Patch Cords.

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

Sigma Trainers and Kits
E-113, Jai Ambe Nagar,
Near Udgam School,
Thaltej,
AHMEDABAD - 380054.
INDIA.

Phone(O): +91-79-26852427/ 26850829
Phone(F): +91-79-26767512/ 26767648
Fax : +91-79-26840290/ 26840290
Mobile : +91-9824001168
Email : sales@sigmatrainers.com
: sigmatrainers@sify.com
Web : www.sigmatrainers.com

Dealer:-