

SAP E & C AC MOTOR SPEED CONTROL TRAINER i.e. AC DRIVE TRAINER
(PRODUCT CODE: SAP – 53)



The **AC Motor Control Trainer** or **AC Drive Trainer (SAP – 53)** outlines the basic of Operation, Construction and Speed Control of AC Motor.

AC MOTOR SPEED CONTROL TRAINER (SAP – 53)

Technical Specification: -

No.	Item Name	Technical Specifications
1	AC drive with PID controller-	Make: LS / DELTA/EQVT. Model Name: SV004iG5-1F / EQVT. I/P: 1 ϕ 230 VAC, O/P: 3 ϕ 230 VAC
2	AC Induction Motor-	3 ϕ , 230/415 VAC, 0.5 / 1HP, 1500 RPM, Frame 71/80.
3	Proximity Sensor	Type: Inductive, 3 wires, 24 VDC, Sensing Distance: 5 mm, Diameter: 18 mm.
4	RPM Indicator	Supply Voltage: 230 VAC, I/P: 0-1500/3000 rpm (Proximity input), Retransmission O/P: 4-20mA
5	RS-232 to RS-485 Converter	Supply Voltage: 230 VAC, I/P signal: RS-232, O/P signal: RS-485

Objectives-

- ❖ Study of operation and construction of A.C. motor.
- ❖ Study of characteristics of A.C. motor.
- ❖ Study of tachometer.
- ❖ Study of AC drives.
- ❖ Characteristics plot of Speed VS Current, and Frequency VS Speed.
- ❖ Study of closed loop control system (speed control).
- ❖ Study of P, PI, and PID controllers.
- ❖ Study of computerized speed control of AC Motor.
- ❖ Study of SCADA software for AC motor speed control application

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Features: -

- ❖ The self-contained unit.
- ❖ Modern industrial components are used for operating.
- ❖ Comprehensive training manual supplied.
- ❖ Optional components are available to allow fault operation.
- ❖ Computer Interface facility.
- ❖ SCADA software for graphical user interface (GUI), Digital data display, redundant bi-directional Parameter selection facility, real time trend plotting historical trends, report generation.

Instruction Manual-

- ❖ Self explanatory.
- ❖ Operation manuals are provided with each system.
- ❖ The detailed theory and practical exercises are also included in the manual.

System Dimensions- 1 Ft. (L) X 1 Ft (W) X 2 Ft. (H)

Services Required-

- ❖ Electric Supply of 1 ϕ 230 VAC, 50Hz
- ❖ PC Pentium Dual core for SCADA software analysis for computerized control

Note-

All descriptive matter and illustrations are intended to give only a general idea of the equipment Detailed specifications may be altered at the company's discretion without any notice.

Manufactured/Marketed By

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