



The AC Motor Control Trainer or AC Drive Trainer (52331) outlines the basic of Operation, Construction and Speed Control of AC Motor.

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 bidirectional Parameter selection facility, real time trend plotting historical trends, report generation.

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Objective

- 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

Services Required

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

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

Weight: Approx. 20Kgs

Technical Specification		
No.	Item Name	Technical Specifications
1	AC drive with PID controller	Make: LS / DELTA/EQVT.Model Name: SV004iG5-1F / EQVT. I/P: 1φ 230 VAC, O/P: 3φ 230 VAC
2	AC Induction Motor	3φ, 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: 18mm.
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

Note: Specifications are subject to change.

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