VERITAS Engineering

Catalog
Of

Servo Motor Linear Control Trainer

Brand: VERITAS

Model: VSRVMT-002

Features

- This unit is a servo motor based linear motion control system, which covers basic application for programmable logic controller, servo motor control technology and sensor technology

- It should be used as a separated demonstration unit with an existing PLC system or programming unit.

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List of Experiment:

- Servo motor and driver

- Servo drive motion control

- Proximity sensor

- Different motion positioning

- Dial switch value input

- Industrial application.

Picture: Servo Motor Trainer

Configuration:

❖ **Linear motion mechanism:**

- **Servo motor:**

    - Input 110VAC, 0.9A, Ins. A,

    - output 3000r/min, 0.32N.m, 100W

- **Servo driver:**

    - 100W, 3PH 200...230V, 0.39A, 1PH 200...230V, 0.69A, output 110V, 0 ~ 50Hz, 0.9A

- **Ball screw:** travel 400mm, lead 4mm

- **Proximity sensor x 3:** groove photo switch, NPN-NC x 2 (10-30V), NPN-NO (5-30V)

- **Mounting frame:** aluminium profile for ball screw and proximity sensor

- **Power supply unit:** AC 220V socket input, with three way DC24V output and short circuit protection

- **Indicators and buttons:** running, alarm, origin indicators, start/stop and forward/reverse control buttons, emergency button, all with 2mm sockets

- **Dial switch:** 2-bit with 8421 BCD

- **Experiment box and panel:** Complete frame made of grooved aluminium profile, detachable upper cover with transparent design, the panel adopts engraved and printed panel

- **Cable suite:** 2mm,

- **Section:** 0.5 mm2 SR wire, 4mm whole sealed

- **Cable section:** 16AWG, with axial socket.

- **Manual:** programming and wiring sample are provided, together with schematic diagrams.

➢ **PLC Unit:**

- SIMATIC S7-200 SMART with 12 input/ 8 output, Transistor type

- **Power supply for PLC:** 24VDC

- **Programming languages:** STL/LAD/FBD

- Ethernet/ RS485 communication and an additional serial port With power cord, programming software and cable

- Dimensions: 250*165*90mm (approx.) with push type rotary lockers