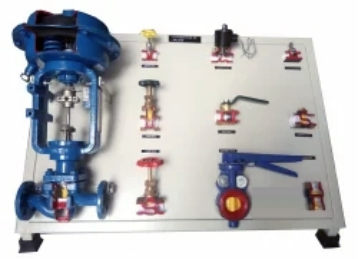
Actuator Training Platform

AVQE 401



Note Shown image is just for illustration original may differ

a. AC Servo Motor

1. Power: 400W
2. Rated Voltage: 220V
3. Rated Speed: 0 to 3000 r/min.
4. Current: 1.0Ampere
5. Control type: PWM control using Drive
6. Encoder: 2048 / 2500 / 10000 Pulse / Rev. (Incremental, Absolute)
7. Dynamic brake: Servo/Controller off Operable with the built-in alarm activated

b. Servo Drive System

1. LED display: 5-digit seven segment display
2. Function key: 5 nos. (mode, shift, up, down, set)
3. PLC: 1 no.
4. Digital inputs: 4 nos.
5. Digital outputs: 4 nos.
6. Communication: USB

c. Speed DPM display

1. Display: Single
2. Display: 4-digit, 0.56'', 7-segment, red LED display
3. Range: 4 to 5000 RPM
4. Input: PNP switch
5. Supply: 100 to 270V AC

d. Inductive Proximity Sensor

1. Type: M12
2. Output: PNP/NPN NO
3. Sensing distance: 4 mm

e. Voltage DPM display

1. Measuring range: 0-10VDC
2. Variable DC Supply (0-10V)
3. Potentiometer -1 no.
4. Measuring range: 0-10VDC
5. Toggle switch. (One for Servo on/off, One for direction, four for PLC inputs.) - 6 nos
6. Indicator (One for servo status and one for direction) - 2 nos
7. Power Indicator- 1 no.

Contactor

1. Siemens 3RT2 Contactor,
2. Operating Voltage: 24 V DC Coil,
3. 3-Pole, 9 A, 4 kW,
4. 3NO
5. 400 V AC

subject to change

A.V. Technologies
Address - 217 2nd Floor, Durgapuri Extension
Street No. 4 Delhi – 110093

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Solenoid Valve

1. Line Size: ½"
2. Operating Voltage: 24VDC
3. Operation: Directing Acting
4. Acting Type: Normally Closed type

Induction Motor

1. Power: 0.5HP
2. Speed: 2500-3000 RPM
3. Voltage -415VAC
4. Operating voltage-Three phase

Stepper Motor

1. Motor Type: Unipolar
2. Torque: 6 Kg-cm
3. Phase Current: 0.8 Amp.
4. Stepping Angle: 1.8 /0.9

DC Motor

1. Operating Voltage: 24VDC
2. RPM: 500-1000

Variable frequency Drive

1. 0.55-01 kW,
2. 380 to 500V,
3. 3 phases- 380–480V AC, 50/60 Hz
4. Frequency Range: 0.1 Hz to 599 Hz
   - ❖ PLC Integration & Communication- Digital Communication: Built-in Modbus RTU/TCP, EtherNet/IP, or PROFINET for high-speed data exchange with the PLC.
   - ❖ Analog I/O: Typically, 0–10V DC or 4–20mA for speed reference and feedback.
   - ❖ Discrete I/O: 24V DC logic for Start/Stop, Reverse, and Fault Reset commands.
5. Control Methods: Supports Scalar (V/Hz), Open-loop Vector, and Closed-loop Vector control for high-precision torque and speed regulation
6. Safety Features: Safe Torque Off (STO) or Safe Stop 1 (SS1) for emergency shutdowns.

Bulb

1. Capacity: 100W 2 no

Solid State Relay

1. 40 Amp
2. 3-32 V DC Input,
3. Controls 24-380 V AC Devices 1 no

DPDT Relay

1. Electromagnetic Power Relay,
2. 8-Pin 10 AMP 24V DC Relay Coil with Socket Base

Tower Light

1. 3 Tier LED Tower Light
2. Color: Red, Green, Yellow
3. Supply Volts: 24VDC
4. With Buzzer

Linear Actuator

1. Operating Voltage (VDC):24
2. Stroke Length (mm):100-115
3. Force (N):1500-2000
4. Speed (mm/s):7-10
5. Protection level: IP55
6. Self-Locking Force :1500N-1800N

Seven segment display modules

1. Seven segment display: 2 -5 nos.
2. Input operating voltage: 5V/12V
3. PLC connection: 2mm sockets

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