

# ***WQIP-1098***

## ***Actuator Training Platform***

### **AC Servo Motor**

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

### **Servo Drive System**

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

### **Speed DPM display**

- ☐ Display: Single
- ☐ Display: 4-digit, 0.56", 7-segment, red LED display
- ☐ Range: 4 to 5000 RPM
- ☐ Input: PNP switch
- ☐ Supply: 100 to 270V AC

### **Inductive Proximity Sensor**

- ☐ Type: M12
- ☐ Output: PNP/NPN NO
- ☐ Sensing distance: 4 mm

### **Voltage DPM display**

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

### **Contactor**

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



Basic Indicative Diagram/image



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### Solenoid Valve

- ☐ Line Size: ½"
- ☐ Operating Voltage: 24VDC
- ☐ Operation: Directing Acting
- ☐ Acting Type: Normally Closed type

### Induction Motor

- ☐ Power: 0.5HP
- ☐ Speed: 2500-3000 RPM
- ☐ Voltage -415VAC
- ☐ Operating voltage-Three phase

### Stepper Motor

- ☐ Motor Type: Unipolar
- ☐ Torque: 6 Kg-cm
- ☐ Phase Current: 0.8 Amp.
- ☐ Stepping Angle: 1.8 /0.9

### DC Motor

- ☐ Operating Voltage: 24VDC
- ☐ RPM: 500-1000

### Variable frequency Drive

- ☐ 0.55-01 kW,
- ☐ 380 to 500V,
- ☐ 3 phases- 380–480V AC, 50/60 Hz
- ☐ 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.
- ☐ Control Methods: Supports Scalar (V/Hz), Open-loop Vector, and Closed-loop Vector control for high-precision torque and speed regulation
- ☐ Safety Features: Safe Torque Off (STO) or Safe Stop 1 (SS1) for emergency shutdowns.

### Bulb

- ☐ Capacity: 100W 2 no

### Solid State Relay

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

### DPDT Relay

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

### Tower Light

- ☐ 3 Tier LED Tower Light
- ☐ Color: Red, Green, Yellow
- ☐ Supply Volts: 24VDC
- ☐ With Buzzer

### Linear Actuator

- ☐ Operating Voltage (VDC):24
- ☐ Stroke Length (mm):100-115
- ☐ Force (N):1500-2000
- ☐ Speed (mm/s):7-10
- ☐ Protection level: IP55
- ☐ Self-Locking Force :1500N-1800N

### Seven segment display modules

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



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