

# PKS-PRO-E-01 - Servo System



FEATURES

- 170-253VAC Single-Phase Input Voltage
- Rated Torque of 45 oz-in
- Power Ratings up to 100 Watts
- 2,500 PPR Incremental Encoder
- Maximum Speed of 5000 RPM
- Enclosed and Self-Cooled
- MODBUS and CANopen Standard
- RS485 Interface
- Real Time Monitoring and Management
- Position, Speed, and Torque Control
- CE Certified



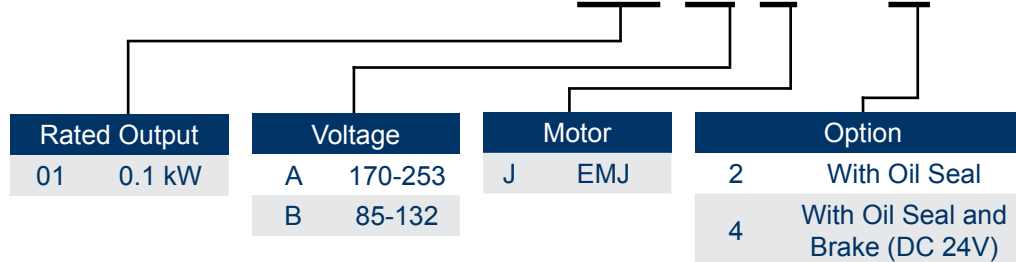
DESCRIPTION

The PKS-PRO-E-01 Servo System includes a 100 Watt EMJ AC Servo Motor operated by the PRONET-E Drive. These packages are ideal for quick and easy start-ups, convenience and performance! The Servo Motors included in these packages provide torque up to 45 oz-in. The PRONET-E Drives offer current forward-feedback control, speed viewer, and inertia viewer; providing for improved response performance. These drives operate standard with MODBUS and CANopen Protocol. Each system includes a 5m Motor Power Cable and 5m Encoder Cable.

| Item                | Rated Voltage (VAC) | Rated Speed (RPM) | Rated Torque (oz-in) | Rated Current (Arms) | Inertia (oz-in-sec <sup>2</sup> ) | Torque Constant KT (oz-in/A) | Resistance (ohms) | Inductance (mH) | Brake (24VDC) | Motor Length (mm) | Shaft Diameter (mm) |
|---------------------|---------------------|-------------------|----------------------|----------------------|-----------------------------------|------------------------------|-------------------|-----------------|---------------|-------------------|---------------------|
| PKS-PRO-E-01-A-JP22 | 170-253             | 3000              | 45                   | 1.05                 | 10.3376                           | 0.376                        | 13.7              | 13.9            | No            | 100               | 8                   |
| PKS-PRO-E-01-A-JP24 | 170-253             | 3000              | 45                   | 1.05                 | 10.3376                           | 0.376                        | 13.7              | 13.9            | Yes           | 134.5             | 8                   |

ORDERING INFORMATION

## PKS-PRO-E-01-A-JP22



L011527

# EMJ-01 Motor Specifications



## FEATURES

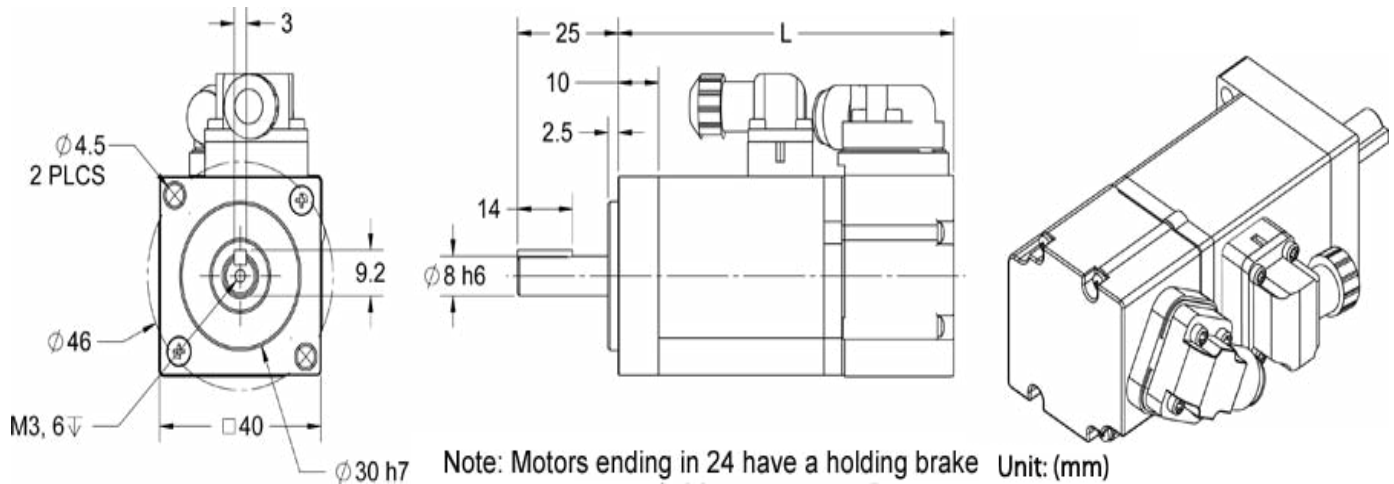
- 170-253VAC Single Phase Input Voltage
- 100W Power Rating
- Rated Torque of 45 oz-in
- Maximum Speed of 5000 rpm
- 2500 PPR Incremental Encoder Attached
- Enclosed and Self-Cooled
- Oil Seal and Optional Brake
- MODBUS and CANopen Standard
- RS485 Interface
- Real Time Monitoring and Management
- Position, Speed, and Torque Control
- CE Certified



## SPECIFICATIONS

| Item        | Rated Torque (oz-in) | Rated Power (Watts) | Rated Speed (rpm) | Rated Current (Arms) | Inertia (oz-in-sec <sup>2</sup> ) | Torque Constant KT (oz-in/A) | Resistance (ohms) | Inductance (mH) | Length (mm) | Weight (lbs) |
|-------------|----------------------|---------------------|-------------------|----------------------|-----------------------------------|------------------------------|-------------------|-----------------|-------------|--------------|
| EMJ-01APA22 | 45                   | 100                 | 3000              | 1.05                 | 0.00103                           | 0.376                        | 13.76             | 15.5            | 100         | 1.34         |
| EMJ-01APA24 | 45                   | 100                 | 3000              | 1.05                 | 0.00104                           | 0.376                        | 13.76             | 15.5            | 134.5       | 4.41         |

## DIMENSIONS



# PRONET-E-01A Driver Specifications

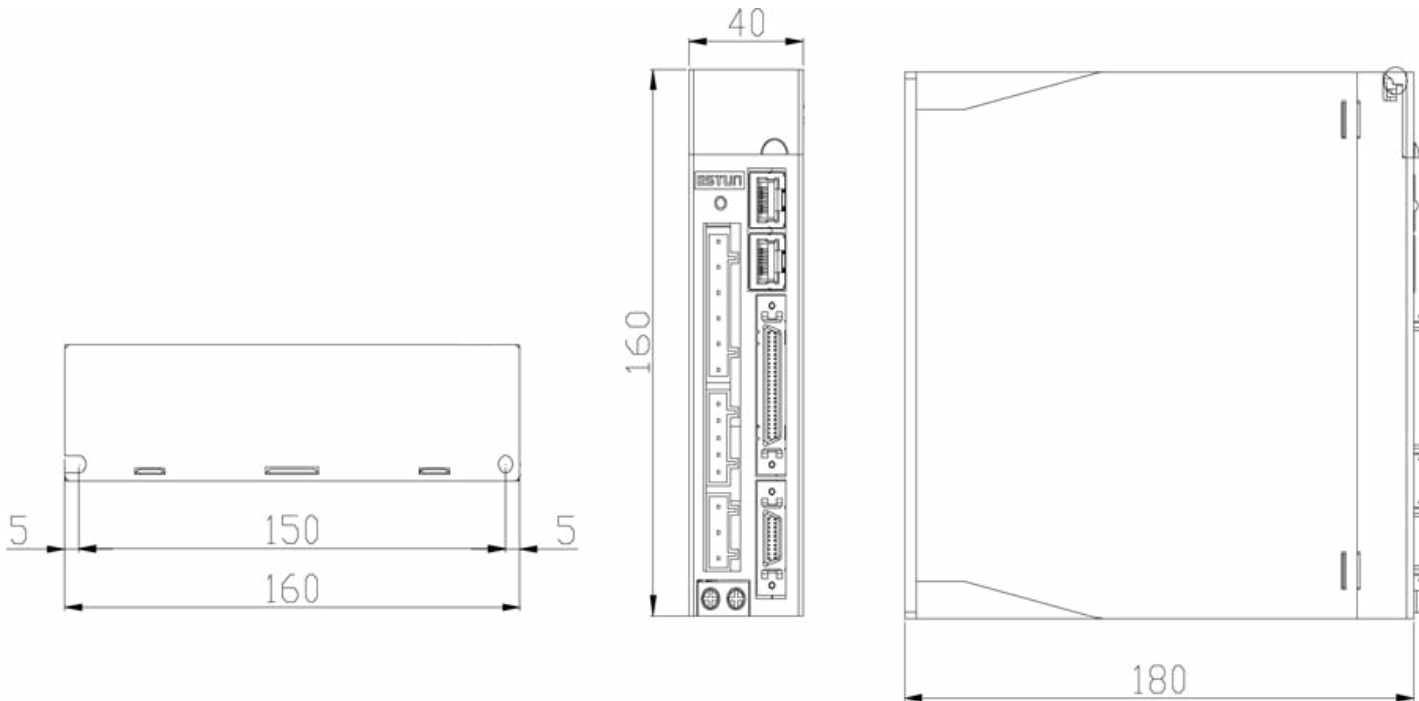


## FEATURES

- *Input Voltage Range of 170-253VAC*
- *200VAC*
- *100W Power Rating*
- *Standard Communication: CANopen*
- *2500 Pulses Per Revolution*
- *High Reliability and Cost Effective*
- *CE Certified*

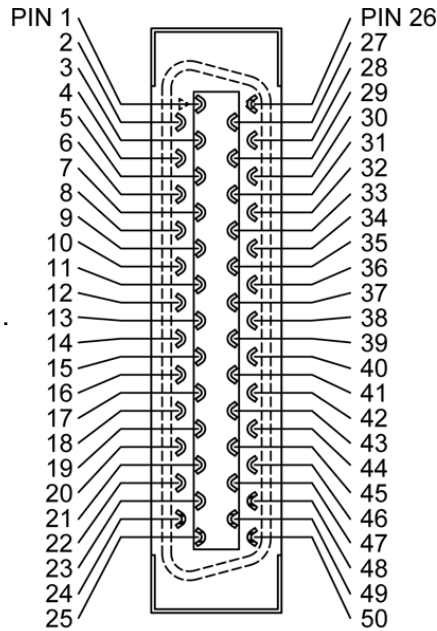
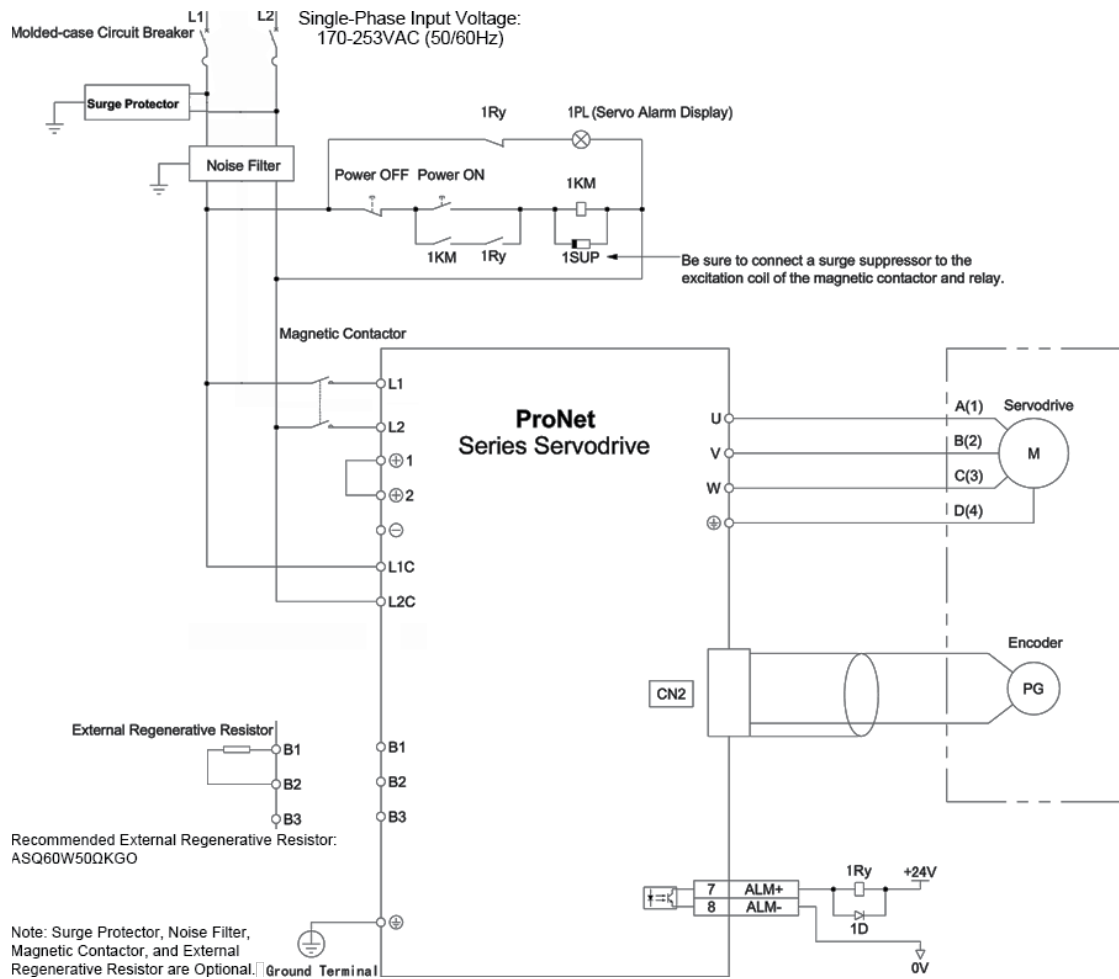


## DIMENSIONS



Dimensions are in mm

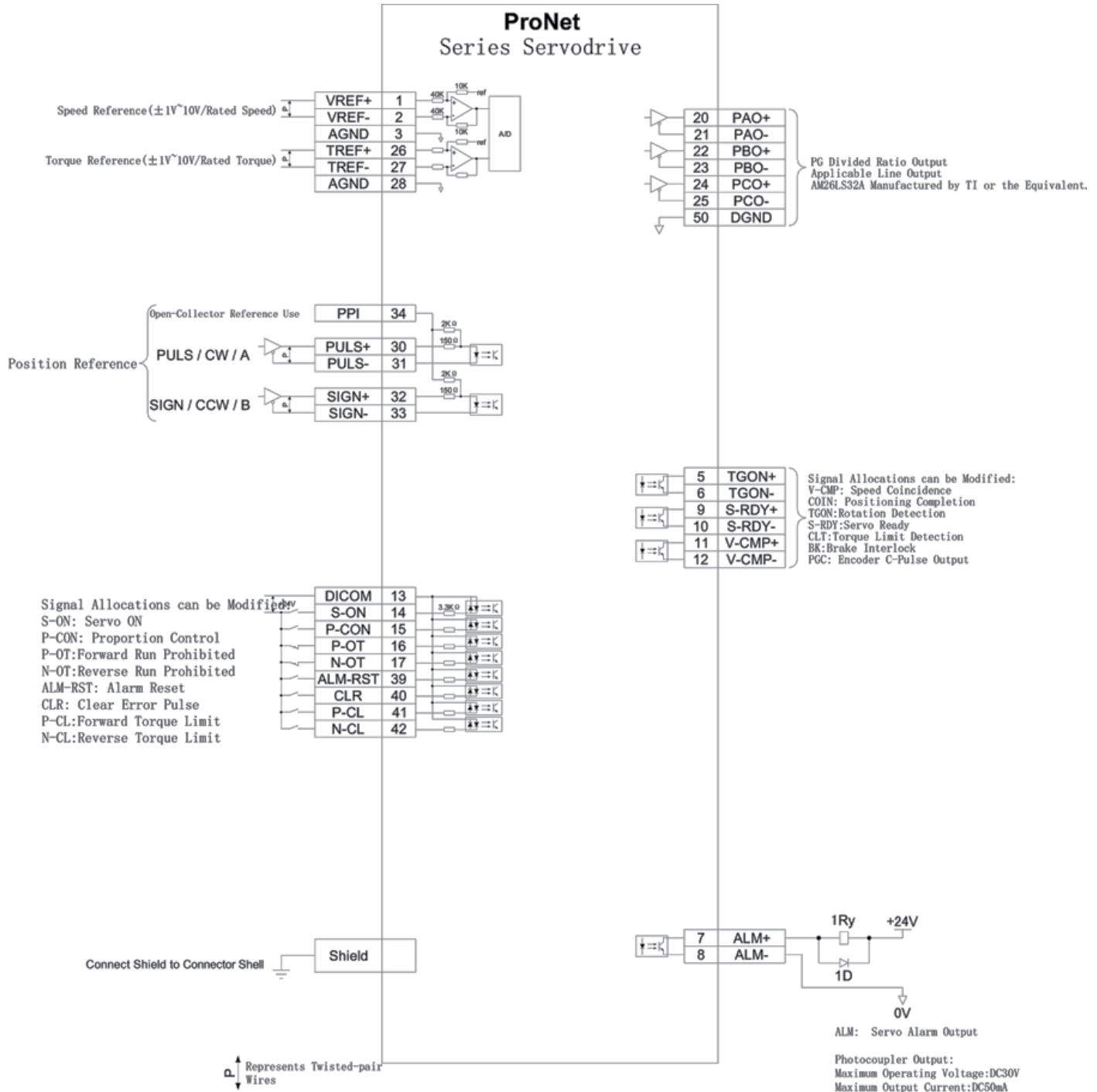
MAIN CIRCUIT DIAGRAM



PRONET-E 1CN  
CONNECTOR  
(REAR VIEW)

1CN CONNECTOR PINOUT





### Included System Driver

| Part Number  | Description  |
|--------------|--------------|
| PRONET-E-01A | Servo Driver |



### Included System Motors

| Part Number | Description |
|-------------|-------------|
| EMJ-01APA22 | Servo Motor |
| EMJ-01APA24 | Servo Motor |



### Included System Cables

| Part Number | Description   |
|-------------|---------------|
| PMP-JO24-05 | Encoder Cable |
| PDM-JO20-05 | Power Cable   |
| PBK-JO20-05 | Brake Cable   |

