



Single & Three Phase Voltage Monitor

PBO-JT

Specifications

Electrical

Line Voltage: 115, 208, 230 & 265VAC, 1Ø
208, 230, 380, 460 & 575VAC, 3Ø

Frequency: 45 to 65 Hz

Over/Under Voltage: ±15%

Phase Imbalance: Trip: 8%, Reset: 7%

Phase Rotation: A - B - C

Time Delays:

Trip Time: 5 seconds (1 Second @ ±20%,
Single Phasing 3Ø line)

Re-Start: 5 Seconds on power up
30 Seconds after fault

Set-Up: Automatic, based on jumper

LED:

Good: Continuous Green
Fault Rotation: Flashing Red (3Ø)
Fault Voltage: Solid Red

Power Consumption: 1VA

Output Rating @ 25°C:

10 Amps @ 120VAC

6 Amps @ 277VAC

1/8 HP @ 120/277VAC

5 Amps @ 20VDC

Physical

Mounting: Surface or DIN

Termination:

Line Side: 1/4" Push-On Tabs

Control Side: 0.187" Push-On Tabs

Packaging: Epoxy Fill

Weight: 5 Ounces

Ambient Temperatures

Operating: -40°C to 65°C

Storage: -40°C to 85°C



Voltage Ranges:

- 115 to 265VAC, 1Ø
- 208 to 575VAC, 3Ø

Self-Powered

SPDT Relay Contacts

9 Built-In Voltage Selections

Monitors:

- Over & Under Voltage
- Phase Loss
- 115 to 265VAC, 1Ø,
- 208 to 575VAC, 3Ø,
- Phase Rotation
- Phase Imbalance

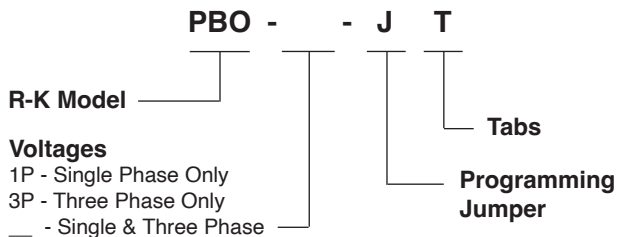
1Ø VOLTAGES:

115VAC, 1Ø 1 Red Flash
208VAC, 1Ø 2 Red Flash
230VAC, 1Ø 3 Red Flash
265VAC, 1Ø 4 Red Flash

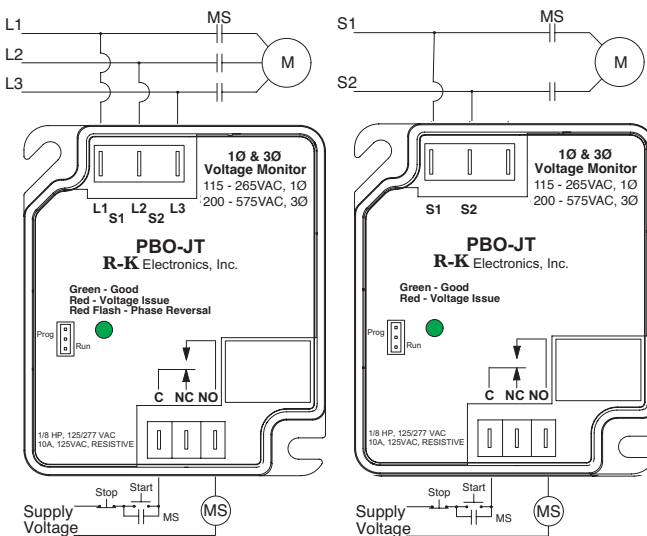
3Ø VOLTAGES:

208VAC, 3Ø 1 Green Flashes
230VAC, 3Ø 2 Green Flashes
380VAC, 3Ø 3 Green Flashes
460VAC, 3Ø 4 Green Flashes
575VAC, 3Ø 5 Green Flashes

Ordering Information



Connections



Operation

To select the line voltage, place the jumper in the "Prog" position before powering up the equipment. The PBO will compare the line voltages present at the time of power up to the 9 voltages available in the PBO. If the line voltage matches one of the line voltages designed into the PBO and all of the pre-programmed tolerances, the output relay will energize after the evaluation period. Place it in the "Run" position to avoid re-programming on each power up.

Green LED - Good

Red Solid - Line Voltage Issue

Red Flashing - Reversed Phases

To determine what voltage range the PBO is set for while in operation, remove the jumper. The LED will indicate the voltage range by flashing red or green in a sequence corresponding to the selected voltage.

Dimensions

