



Three Phase Voltage Relay

PVM-P

Specifications

Electrical

Line Voltage:

110VAC to 480VAC, 3Ø

Frequency:

50/60Hz

Line Voltage Ranges:

120 Series - 110VAC to 120VAC, 3Ø

208 Series - 208VAC, 3Ø

240 Series - 220VAC to 240VAC, 3Ø

400 Series - 440VAC to 480VAC, 3Ø

Undervoltage:

Adj. to 12% below minimum nominal

Overtoltage:

Adj. to 12% above maximum nominal

Phase Rotation: A - B - C

Phase Loss:

Complete loss to 65% of nominal

Overtoltage Protection (Max.):

120 Series - 150VAC

208 Series - 300VAC

240 Series - 300VAC

400 Series - 550VAC

Drop-out Delay: 0.2 sec., fixed

Power Consumption: 2VA

Output Contacts:

5 Amps @ 240VAC

125VA @ 120/240VAC

100,000 Full Load Cycles

10,000,000 Mechanical Cycles

Physical

Mounting: Plug-In

Termination: 8 Pin

Packaging: Dust Cover

Weight: 4.5 oz. Approx.

Ambient Temperatures

Operating: 0°C to 65°C

U.L. Operating: 0°C to 40°C

Storage: -30°C to 85°C

Sockets

120 thru 240 Series:

IDEC: SR2P-05, SR2P-06

480 Series:

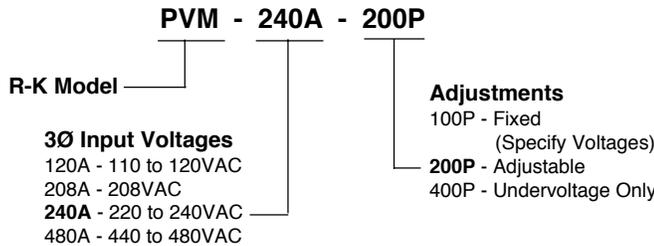
Custom: OT08



- Plug-In Package
- Adj. Overtoltage
- Adj. Undervoltage
- Phase Loss (Single Phasing)
- Phase Rotation
- Status LED
- Drop-Out Delay
- Automatic Reset
- 240 Volt Control Contact Rating
- 5 Amp, SPDT



Ordering Information

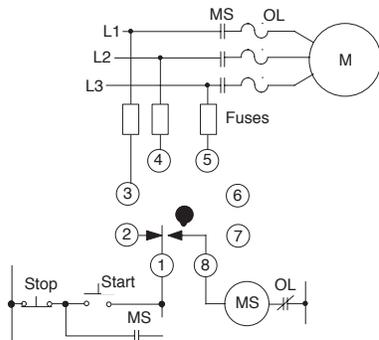


Note: PVM-240A-400P covers 208 to 240VAC (Adj. Code "400P" only)

Connections

The PVM-Ps should be connected to the line voltage on the load side of the last line fuse before the motor and on the line side of the starter (MS).

- M = Motor
- MS = Motor Starter
- OL = Overloads
- Fuses = ≤1 amp (optional)



Operation

The PVM-P's output contacts energize when:

1. All the phases are present;
2. The voltages are within set points;
3. The phases are in proper rotation.

If any of these conditions shift beyond the setpoints, the output contact will de-energize after a .2 second fixed time delay period. Single phase conditions will only be detected if there is a substantial loss of voltage in one phase. In some applications, motors that continue to rotate after the loss of a phase may re-generate voltages that simulate the line conditions. Consider R-K's PVC or PVR series if loss of phase is critical in your applications.

Dimensions

