Three Phase Voltage Relay

PVCO/L

- 10 Amp Relay
- SPDT or DPDT
- Undervoltage
- Phase Loss (Single Phase)
- Phase Imbalance
- Phase Rotation
- Pick-up & Drop-out Delays
- Normal Condition LED

E71902 LR43414

Specifications

Electrical

Line Voltage:
110VAC to 600VAC, 3Ø
Frequency: 60Hz, 300 Series 50Hz
Line Voltage Ranges:
100 Series - 110VAC to 120VAC, 3Ø
200 Series - 208VAC to 240VAC, 3Ø
300 Series - 380VAC to 415VAC, 3Ø
400 Series - 440VAC to 480VAC, 3Ø
600 Series - 575VAC to 600VAC, 3Ø
Maximum Overvoltage:
10% of highest nominal voltage
Maximum Frequency Shift: 0.1Hz
Undervoltage: 10% below set point
Phase Imbalance: 5% typical
Phase Rotation: A - B - C
Phase Loss:
Complete loss to 95% of nominal
Time Delays:
Pick-up: 5 Sec. Fixed
Drop-out: 5 Sec. Fixed

Power Consumption: 16VA
Output Contacts:
7 Amps @ 120VAC
5 Amps @ 240VAC
100,000 Full Load Electrical Cycles
10,000,000 Mechanical Cycles

Physical

Mounting: Surface
Termination: Screw Terminals
Packaging: Dust Cover
Weight: 8 Oz. Approx.

Ambient Temperatures

Operating: -20°C to 40°C
Storage: -20°C to 85°C

Ordering Information

PVC L - 200 - AR

R-K Model

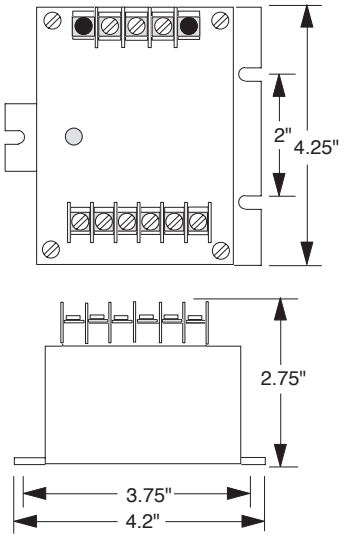
Output Options
O - 240V, SPDT
L - 240V, DPDT

3Ø Input Voltages
100 - 110 to 120VAC
200 - 208 to 240VAC
300 - 380 to 415VAC
400 - 440 to 480VAC
600 - 575 to 600VAC

Reset Options
AR - Automatic Reset
MR - Manual Reset

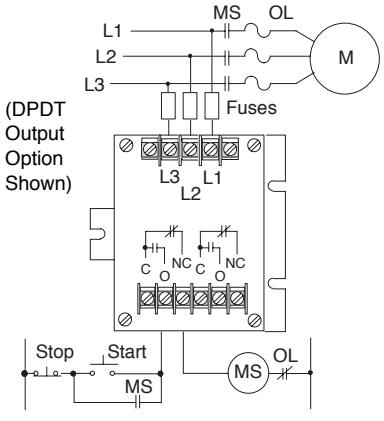
DIN Rail Bracket #DRB-3

Dimensions



Connections

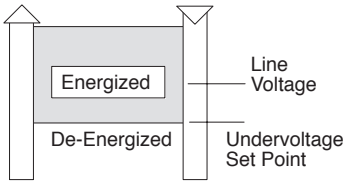
The PVCs should be connected to the line voltage on the load side on the last line fuse before the motor and on the line side of the starter (MS).
M = Motor MS = Motor Starter
Fuses = ≤1 amp (optional)
OL = Overloads



Operation

The PVC's output contacts energize when:
1. All the phases are present;
2. The voltages are within 10% of the setting;
3. The phases are in the proper rotation
4. The phases are balanced;
5. The frequency is within tolerance.

Built into the PVC series is a 5 second pick-up delay to allow the three phase line to stabilize. If any of these conditions shift beyond the setpoints, the output contact will de-energize after a 5 second time delay. Single phase conditions will be detected when the voltage in one phase is 5% different from the voltages in the other two phases (Phase Imbalance).



Spec Tech Industrial 203 Vest Ave. Valley Park, MO 63088 Phone: 888 SPECTECH
Email: sales@spectechind.com www.spectechind.com