Phase Loss & Reversal Relay

PRR/O/L



- **10 Amp Relay**
- **SPDT or DPDT**
- **Pick-up & Drop-out Delays**
- **Phase Loss**
- **Phase Rotation**
- **240 Volt Control Contact Rating**
- **Normal Condition LED**

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Listed
42L2

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
Phase Rotation: A - B - C
Phase Loss:
18% Low Voltage in one phase
Time Delays:
Pick-up: 5 Sec. Fixed
Drop-up: 5 Sec. Fixed
Power Consumption: 16VA

Output Relay:
PRR - 7 Amps @ 240VAC
2 Amps @ 600VAC
PRRO/L- 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: 0°C to 40°C
Storage: -10°C to 85°C

Ordering Information

PRR O - 400

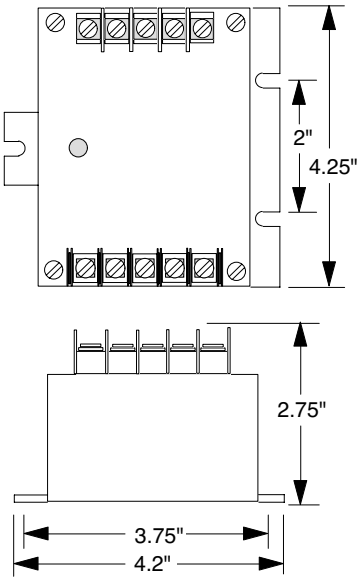
R-K Model

Output Options
_ - 600V, 1NO+SPDT
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

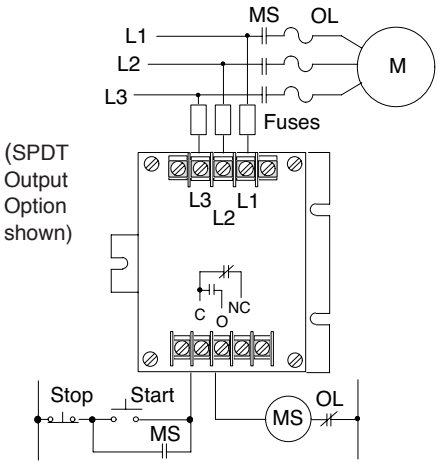
DIN Rail Bracket #DRB-3

Dimensions



Connections

The PRRs 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

Phase Loss & Reversal Sensing
The PRR's output contacts energize when:
1. All the phases are present;
2. The phases are in the proper rotation
3. The frequency is within the tolerance.

If the phase rotation of the incoming three phase lines is reversed, the internal relay will de-energize. Single phase conditions will be detected if there is an 18% loss of voltage in one phase.

