

Reverse Phase Relay PLS Series Motor Protector



TEN YEAR WARRANTY

- Protects Against Phase Reversal
- Low Cost Protection, One Unit for All Sized Motors
- 3 Wire Connection for Delta or Wye Systems
- Octal Base Connection--One Replaces Most Models
- SPDT Isolated Relay Contacts
- Factory Calibrated--No Adjustments Required

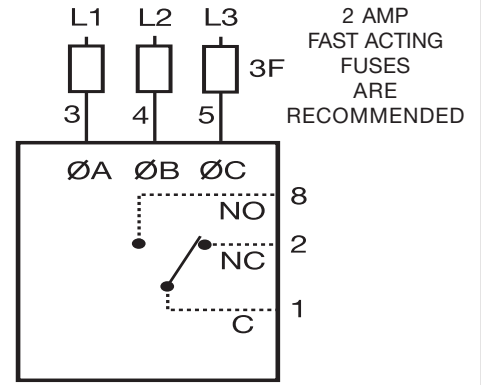
Description

The PLS Series is a low cost phase sensitive control that provides an isolated contact closure when the proper A-B-C phase sequence is applied. Protects sensitive 3 phase equipment and equipment operators from reverse rotation. Designed to be compatible with motor overloads or other 3 phase equipment protection devices. Protection for equipment control centers where frequent reconnection or electrical code makes reverse rotation protection essential. Examples include, mobile refrigerated containers, construction equipment, hoists, pumps, conveyors, elevators and escalators.

Operation

The internal relay is energized when the phase sequence is correct. The output relay will not energize if the phases are reversed. Reset is automatic upon correction of the fault.

■ Approvals:



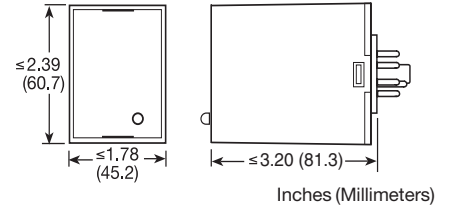
F = Fuses
NO = Normally Open
NC = Normally Closed

Relay contacts are isolated. Dashed lines are internal connections.

Voltage	Part Number
120 V AC	PLS120A
208/240 V AC	PLS240A
380/415 V AC	PLS380A
440/480 V AC	PLS480A

Technical Data

Line Voltage		Type	
Type		3-phase Delta or Wye with no connection to neutral	
Nominal Voltage	Minimum Voltage	Maximum Voltage	Calibration Frequency
120 V AC	95 V AC	135 V AC	50 ... 60 Hz
208/240 V AC	175 V AC	255 V AC	50 ... 60 Hz
380/415 V AC	310 V AC	430 V AC	50 Hz
440/480 V AC	380 V AC	500 V AC	50 ... 60 Hz
Phase Sequence		ABC	
Response Times			
Pull-in		≤ 30 ms	
Drop-out		≤ 25 ms	
Output			
Type		Electromechanical relay, energized when the phase sequence is correct	
Form		Isolated SPDT	
Rating		10 A resistive at 240 V AC 8 A resistive at 240 V AC	
Maximum Voltage		250 V AC	
Protection			
Isolation Voltage		≥ 1500 V RMS input to output ≥ 2500 V RMS input to output	
Mechanical			
Mounting		Plug-in socket	
Termination		8-pin, octal plug	
Environmental			
Operating Temperature		-40°C ... +55°C	
Storage Temperature		-40°C ... +85°C	
Weight		≅ 6 oz (170 g)	



Accessories

Panel mount kit
P/N: BZ1

Octal 8-pin socket
P/N: OT08PC

3-phase fuse block/disconnect
P/N: P0700-241
2 AMP fuse
P/N: P0600-11

DIN rail
P/Ns:
C103PM (Al)
17322005 (Steel)

See accessory page at the end of this section.