

Reverse Phase Relay

PLS Series

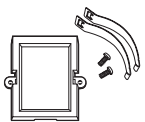
Motor Protector



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

Approvals:

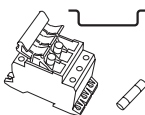
Accessories



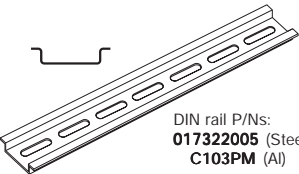
Panel mount kit
P/N: **BZ1**



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:
017322005 (Steel)
C103PM (Al)

See accessory pages for specifications.

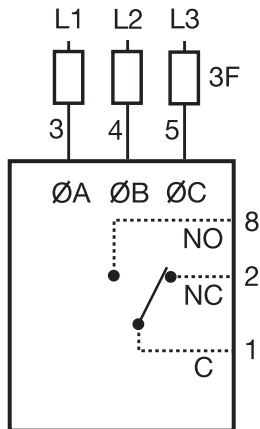
Description

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 and LED are 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.

Connection



2 Amp
Fast Acting
Fuses
Recommended
For Safety
(Not Required)

F = Fuses
ØA = Phase A = L1
ØB = Phase B = L2
ØC = Phase C = L3
NO = Normally Open
NC = Normally Closed

Relay contacts are isolated. Dashed lines are internal connections.

Ordering Table

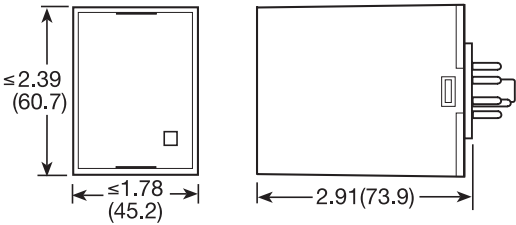
Voltage	Part Number
120 V AC	PLS120A
208/240 V AC	PLS240A
380/415 V AC	PLS380A
440/480 V AC	PLS480A

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Technical Data

Line Voltage		3-phase Delta or Wye with no connection to neutral		
Type		Nominal Voltage	Minimum Voltage	Maximum Voltage
		120 V AC	95 V AC	135 V AC
		208/240 V AC	175 V AC	255 V AC
		380/415 V AC	310 V AC	430 V AC
		440/480 V AC	380 V AC	500 V AC
Frequency		50 ... 60 Hz		
Phase Sequence		ABC		
Response Times				
Pull-in		≤ 300 ms		
Drop-out		≤ 50 ms		
Output				
Type		Electromechanical relay, energized when the phase sequence is correct		
Form		Isolated SPDT		
Rating	120 & 240 V AC	10 A resistive at 240 V AC		
	380 & 480 V AC	8 A resistive at 240 V AC		
Maximum Voltage		250 V AC		
Protection				
Isolation Voltage	120 & 240 V AC	≥ 1500 V RMS input to output		
	380 & 480 V AC	≥ 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)		

Mechanical View



Inches (Millimeters)