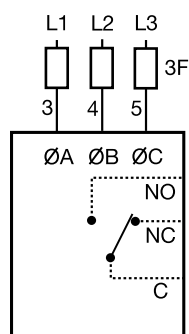


PLS SERIES



8-PIN

Wiring Diagram



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

Relay contacts are isolated

2A fast acting fuses recommended for safety (not 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 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.

Features & Benefits

FEATURES	BENEFITS
Continuous monitoring	Cost effective protection of 3-phase equipment and operators from reverse rotation. Meets reverse rotation protection code requirements.
Universal motor compatibility	Designed to be compatible with motor overloads or other 3-phase equipment protection devices
Industry standard 8-pin octal plug connection	Eliminates need for special connectors
Factory calibrated	Easy to install. No field adjustment needed
LED indicator	Provides visual indication of relay status

Accessories



BZ1 Front Panel Mount Kit

Provides an easy method of through-the-panel mounting of 8- or 11-pin plug-in timers, flashers, and other controls.



Octal 8-pin Socket

8-pin 35mm DIN rail or surface mount. Rated at 10A @ 600VAC. Surface mounted with two #6 screws or snaps onto a 35 mm DIN rail.



LPSM003ZXID (Indicating), LPSM003Z (Non-indicating) Fuse Holders

Littelfuse POWR-SAFE Dead Front holders provide optimum protection to personnel for Class CC and Midget-Style fuses. 600 VAC/DC



OKLK002.T Midget Fuse (2 Amp)

10 x 38 fast acting, high-interrupting capacity, current-limiting type fuse. 600 Vac/500 Vdc



C103PM (AL) DIN Rail

35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.

Ordering Information

MODEL	LINE VOLTAGE
PLS120A	120VAC
PLS240A	208/240VAC
PLS480A	440/480VAC

If you don't find the part you need, call us for a custom product 800-843-8848

Protection Relays

Voltage Monitoring Relays

PLS SERIES

Specifications

Line Voltage

Type

3-phase delta or wye with no connection to neutral

Nominal Voltage	Minimum Voltage	Maximum Voltage
120VAC	95VAC	135VAC
208/240VAC	175VAC	255VAC
380/415VAC	310VAC	430VAC
440/480VAC	380VAC	500VAC

AC Line Frequency

50/60Hz

Phase Sequence

ABC

Response Times

Pull-in

≤ 300ms

Drop-out

≤ 50ms

Output

Type

Electromechanical relay, energized when the phase sequence is correct
Isolated SPDT

Form

Rating

120 & 240VAC

10A resistive @ 240VAC

380 & 480VAC

8A resistive @ 240VAC

Maximum Voltage

250VAC

Protection

Isolation Voltage

120 & 240VAC

≥ 1500V RMS input to output

380 & 480VAC

≥ 2500V RMS input to output

Mechanical

Mounting*

Plug-in socket

Dimensions

H 81.3 mm (3.2"); **W** 60.7 mm (2.39");

D 45.2 mm (1.78")

Octal 8-pin plug-in

Termination

Environmental

Operating/Storage

Temperature

-40° to 55°C / -40° to 85°C

Weight

≈ 6 oz (170 g)

*CAUTION: Select an octal socket rated for 600VAC operation.