

PLR SERIES



8-PIN

Description

The PLR Series provides a cost effective means of preventing 3-phase motor startup during adverse voltage conditions. Proper A-B-C sequence must occur in order for the PLR's output contacts to energize. In addition, the relay will not energize when an undervoltage or phase loss condition is present. The PLR Series protects a motor against undervoltage operation. The adjustment knob sets the undervoltage trip point.

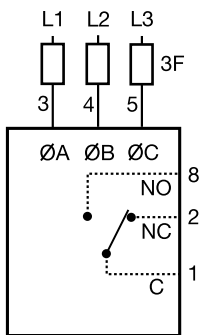
Operation

The output relay is energized and the LED glows when all voltages are acceptable and the phase sequence is correct. Undervoltage must be sensed for a continuous dropout delay period before the relay de-energizes. Reset is automatic upon correction of the fault condition. The output relay will not energize if a fault condition is sensed as power is applied.

Field Adjustment: Turn the adjustment knob fully counterclockwise and apply three-phase power. The LED should be ON. Increase adjustment until the LED goes OFF. Decrease adjustment until LED glows again. If nuisance tripping occurs, decrease the adjustment slightly.

NOTE: When properly adjusted and operating in an average system, a voltage unbalance of 10% or more is required for phase loss detection. When a phase is lost while the motor is running, a voltage will be induced into the open phase nearly equal in magnitude to the normal phase-to-phase voltage. This condition is known as regeneration. When regenerated voltages are present, the voltage unbalance during single phasing may not exceed 10% for some motors. The PLR Series may not provide protection under this condition. For systems that require superior phase loss protection, select the PLMU Series.

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).

Features & Benefits

| FEATURES | BENEFITS |
|--|---|
| Continuous monitoring | Prevents 3-phase motor startup when undervoltage or phase loss condition is present |
| Industry standard 8-pin octal plug connection | Eliminates need for special connectors |
| LED indication | Quick visual indication of output status and correct phase sequence |

Ordering Information

| MODEL | LINE VOLTAGE |
|---------|---------------|
| PLR120A | 95 to 140VAC |
| PLR240A | 190 to 270VAC |
| PLR380A | 340 to 450VAC |
| PLR480A | 380 to 500VAC |

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

PLR SERIES

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.



OT08PC 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



0KLK002.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.

Specifications

Line Voltage Type

3-phase delta or wye with no connection to neutral

Nominal Voltage

120VAC
240VAC
380VAC
480VAC

| Undervoltage Dropout Adj. Range | Line Voltage Max. |
|---------------------------------|-------------------|
| 85 to 130VAC | 143VAC |
| 170 to 240VAC | 270VAC |
| 310 to 410VAC | 480VAC |
| 350 to 480VAC | 530VAC |

AC Line Frequency

50/60Hz

Phase Sequence

ABC

Response Times

Pull-in

≤ 400ms

Drop-out

≤ 100ms

Hysteresis

≈ 2%

Pull-in/Drop-out

Output Type

Electromechanical relay, energized when all voltages are acceptable

Form

Rating

SPDT

Maximum Voltage

5A resistive @ 240VAC, 1/4 Hp @ 120VAC 250VAC

Protection

Phase Reversal/Failure

ASME A17.1 Rule 210.6

Motors and Generators

NEMA MG1 14:30, 14:35

Surge

IEEE C62.41-1991 Level B

Isolation Voltage

120 & 240VAC
380 & 480VAC

≥ 1500V RMS input to output
≥ 2500V RMS input to output

Mechanical Dimensions

H 81.3 mm (3.2"); **W** 60.7 mm (2.39");
D 45.2 mm (1.78")

Mounting*

Termination

Plug-in socket

Environmental

Operating/Storage

Temperature

0° to 55°C / -40° to 85°C

Weight

≈ 6 oz (170 g)

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

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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