


# PHASE MONITOR RELAYS

## PCP SERIES PHASE REVERSAL

## PLP SERIES PHASE LOSS & PHASE REVERSAL

### PLUG-IN



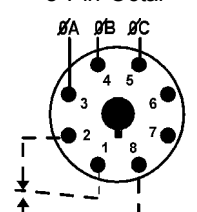
- ◆ PCP Series protects against phase reversal only
- ◆ PLP Series protects against phase loss & phase reversal
- ◆ LED indicates both normal and fault conditions
- ◆ Compact plug-in case utilizing industry-standard 8 pin octal socket
- ◆ 10A SPDT output contacts
- ◆  (with appropriate socket)

The PCP Series Phase Monitor Relays provide protection against phase reversal in a compact plug-in design. One version will work on any 3 phase system from 208V to 480V (a separate 120V-only version is also available). The relay is energized and the LED on when the sequence is correct. Any fault will de-energize the relay and turn off the LED. Re-energization is automatic upon correction of the fault condition.

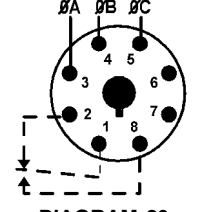
The PLP Series Phase Monitor Relays provide protection against phase loss & phase reversal in a compact plug-in design. The relay is energized and the LED on when all three phases are present and in the correct sequence. Any fault will instantaneously de-energize the relay and turn off the LED. Re-energization is automatic upon correction of the fault condition.

These devices are designed to be compatible with most Wye or Delta systems with no connection to Neutral required.

#### PCP SERIES

PROTECTS AGAINST	NOMINAL VOLTAGE▲ (50/60 Hz)	PRODUCT NUMBER	WIRING/ SOCKET■
Phase Reversal	120V	PCP1	8 Pin Octal  DIAGRAM 23
	208-480V	PCP2 *	

#### PLP SERIES

PROTECTS AGAINST	NOMINAL VOLTAGE▲ (50/60 Hz)	PRODUCT NUMBER	WIRING/ SOCKET■
Phase Reversal & Phase Loss	120V	PLP120	8 Pin Octal 70169-D  DIAGRAM 23
	208V	PLP208	
	240V	PLP240	
	400V	PLP400 *	
	480V	PLP480 *	

▲ Phase-to-Phase (Line-to-Line).

\* Requires a 600V-rated socket when used on system voltages above 300V.

■ See Pages 80 & 81 for **Sockets & Accessories**.



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# PHASE MONITOR RELAYS

## PCP SERIES PHASE REVERSAL ONLY

## PLP SERIES PHASE LOSS & PHASE REVERSAL

### APPLICATION DATA & DIMENSIONS

#### APPLICATION DATA

##### Phase Loss (PLP Series Only):

Unit trips on loss of any Phase A, B or C

##### Phase Reversal:

Unit trips if sequence of the three phases is anything other than A-B-C.

##### Output Contacts:

10A Resistive SPDT @ 240V AC, 1/3HP @ 120/240V AC (N.O.), 1/6HP @ 120/240V AC (N.C.)

##### Life:

Full Load: 100,000 operations

##### Response Times:

Operate: 50ms

Release: 50ms

##### Load (Burden):

3VA

##### Temperature:

-28° to 65°C (-18° to 149°F)

##### Transient Protection:

10,000 volts for 20 microseconds

##### Mounting:

Uses an 8 pin octal socket. Requires a 600V-rated socket when used on system voltages greater than 300V (Macromatic Product Number 70169-D--see Page 80).

##### Indicator LED:

Red LED on when all conditions are normal, and off when a fault condition has occurred.

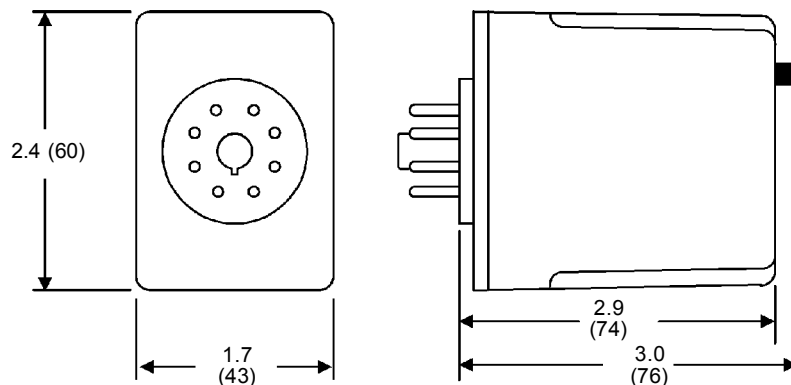
##### Reset:

Automatic upon correction of fault

##### Approvals:



#### DIMENSIONS



All Dimensions in  
Inches (Millimeters)