PHASE MONITOR RELAYS

Phase Loss, Phase Reversal & Undervol tage PAP Series Plug-in



- u Protects against phase loss, phase reversal & undervoltage
- Undervoltage setting is adjustable from 75-95% of nominal
- u LED indicates both normal and fault conditions
- Compact plug-in case utilizing industry-standard 8 pin octal socket
- u 10A SPDT output contacts



(with appropriate socket)

The PAP Series Phase Monitor Relays provide protection against phase loss, phase reversal & undervoltage in a compact plug-in design. These devices are designed to be compatible with most Wye or Delta systems. In Wye systems, a connection to a neutral is not required. Phase Monitor Relays protect against single phasing regardless of any regenerative voltages.

The relay is energized and the LED on when all three phase are present in the correct sequence at a voltage level above the undervoltage setting. The undervoltage drop-out can be set at 75-95% of operating voltage. Any fault will instantaneously de-energize the relay and turn off the LED. Re-energization is automatic upon correction of the fault condition.

MOUNTING STYLE	NOMINAL VOLTAGE 50/60 Hz	UNDER- VOLTAGE RANGE	PRODUCT NUMBER	WIRING/ SOCKETn
Plug-in	120V	90-115V	PAP120	8 Pin Octal 70169-D
	208V	156-198V	PAP208	ØA ØB ØC
	240V	180-230V	PAP240	
	400V	300-380V	PAP400 *	
	480V	360-460V	PAP480 *	* *
				DIAGRAM 23

Requires a 600V-rated socket when used on system voltages greater than 300V.

n See Pages 81 & 82 for Sockets & Accessories.



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Appl ication Data

Phase Loss:

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.

Undervoltage:

Adjustable over a range per product selection table. Unit trips when the average of all three lines is less than the adjusted set point.

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

<u>Temperature</u>: -28° to 65°C (-20° to 150°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 81).

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

