

# PHASE LOSS, PHASE REVERSAL, PHASE UNBALANCE, UNDERVOLTAGE & OVERVOLTAGE

## PMP-FA8X/11/12 SERIES



- ◆ Universal voltage range of 208-480V (208 or 240V on 11 pin) provides the flexibility to cover a variety of applications with one unit
- ◆ Protects against phase loss, phase reversal, phase unbalance, undervoltage and overvoltage
- ◆ Choose between 11 Pin DPDT, 12 Pin DPDT, & 8 Pin SPDT/SPNO output configurations
- ◆ Automatic Reset
- ◆ Multi-color LED indicates normal condition and defines fault to simplify troubleshooting
- ◆ Compact plug-in case utilizing industry-standard 8 or 11 pin octal or 12 pin square sockets



Better. By Design.

800.238.7474

WWW.MACROMATIC.COM

SALES@MACROMATIC.COM

The PMPU-FA8X/11/12 Series Phase Monitor Relays utilize a microprocessor-based design to provide protection against phase loss, phase reversal, phase unbalance, undervoltage and overvoltage, and are compatible with most Wye or Delta systems. They protect against unbalanced voltages or single phasing regardless of any regenerative voltages.

The relay is energized when the phase sequence and all voltages are correct. Any one of five fault conditions will de-energize the relay. Re-energization is automatic upon correction of the fault condition. A multi-color LED indicates normal condition and also provides specific fault indication to simplify troubleshooting.

These products offer a universal voltage design that works on any three-phase system voltage from 208-480V (208 or 240V only on the 11 pin DPDT version). The undervoltage drop-out is fixed at 90% & the overvoltage drop-out is fixed at 110% of operating voltage. The time delay drop-out on undervoltage is fixed at 4 seconds. The percent phase unbalance is fixed at 6%. The time delay on both power up and restart after a fault has been cleared is fixed at 2 seconds.

OUTPUT CONFIGURATION	LINE-LINE VOLTAGE▲ 50/60 Hz	PRODUCT NUMBER*	WIRING/SOCKET
11 Pin DPDT	208V 240V	PMP208-FA11 PMP240-FA11	11 Pin Octal <b>70170-D</b>  <b>DIAGRAM 173</b>
12 Pin DPDT	208-480V	PMPU-FA12*	12 Pin Octal <b>SD12-PC</b>  <b>DIAGRAM 174</b>
8 Pin SPDT/ SPNO	208-480V	PMPU-FA8X*	8 Pin Octal <b>70169-D</b>  <b>DIAGRAM 175</b>

▲ Phase-to-Phase (Line-to-Line).

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

Sockets & Accessories available