



PLUG-IN THREE-PHASE MONITOR RELAY SERIES



Better. By Design.



PLUG-IN THREE-PHASE MONITOR RELAYS

A VARIETY OF APPLICATIONS

The next generation of Three-Phase Monitor Relays from Macromatic delivers significant enhancements and exclusive features designed to protect motors against voltage faults.

- HVAC
- Mining
- Pumping
- Elevator
- Crane
- Lift
- Generator
- Irrigation
- Petro-Chem
- Wastewater
- Much more

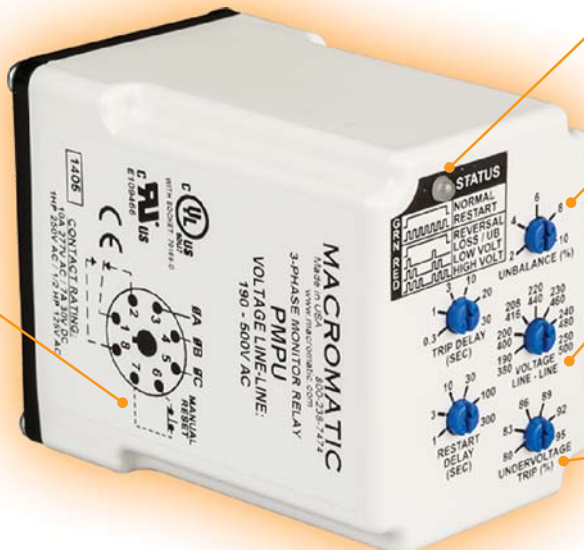


PMP SERIES

Protects against phase reversal, phase loss, undervoltage, overvoltage & phase unbalance conditions along with rapid cycling

- EXCLUSIVE!** PMPU is the only unit with universal voltage range of 190-500V - **greater range covers more global applications** (separate catalog numbers cover 120V & 575V three-phase systems)
- True RMS voltage measurement **ensures accurate sensing across more applications**, which includes generators, regardless of load type or wave shape, resulting in improved protection
- EXCLUSIVE!** PMP Series is the only three-phase monitor relay in its class to **retain fault indication and continue monitoring all voltages even with a lost phase**
- EXCLUSIVE!** Expanded contact ratings - no other unit can match the ratings of the PMP Series and no other product has a DC contact rating - **control more applications with only one unit**
- Utilizes industry-standard 8 pin octal socket

PMPU-FA8 is available with the same 190-500V universal voltage range as PMPU, but all other settings fixed for easier setup.



Full Fault Identification on Top of Unit
LED status indication for easy viewing and simplified troubleshooting

User-Selectable & Adjustable Settings
Variety of settings for the ultimate in three-phase protection

Line-Line Voltage Setting
Dial-in-dial with two scales: 190-250V low voltage scale & 380-500V high voltage scale—fewer scales make setup easier

EXCLUSIVE! **Adjustable Undervoltage Trip Setting**
Only unit in its class with adjustable Undervoltage Trip setting for more accurate protection against low voltage conditions

EXCLUSIVE! **Manual Reset Option Works With External Switch**
Allows unit to be safely and easily reset from outside the enclosure instead of opening the door to find a top-mounted button on the unit

PAP SERIES

Protects against phase loss, phase reversal & undervoltage conditions

- EXCLUSIVE!** True RMS voltage measurement **ensures accurate sensing across more applications**, which includes generators, regardless of load type or wave shape, resulting in improved protection
- EXCLUSIVE!** **Best-in-class phase loss protection**
- EXCLUSIVE!** PAP Series is the only three-phase monitor relay in its class to **retain fault indication and continue monitoring all voltages even with a lost phase**
- EXCLUSIVE!** Expanded contact ratings—no other unit can match the ratings of the PAP Series and no other product has a DC contact rating—**control more applications with only one unit**
- Utilizes industry-standard **8 pin octal socket**

EXCLUSIVE! **Full Fault Identification on Top of Unit**
LED status indication for easy viewing and simplified troubleshooting

EXCLUSIVE! **Undervoltage Trip**
Adjustable from 75-95% of nominal voltage



PLP & PCP SERIES

PLP Series - Protects against phase reversal & loss

PCP Series - Protects against phase reversal only

- EXCLUSIVE!** Only unit with universal voltage range of 190-500V - **greater range covers more global applications**
- EXCLUSIVE!** PLP Series is the only three-phase monitor relay in its class to **retain fault indication and continue monitoring all voltages even with a lost phase**
- EXCLUSIVE!** Expanded contact ratings - no other unit can match the ratings and no other product has a DC contact rating - **control more applications with only one unit**
- Utilizes industry-standard **8 pin octal socket**

Full Fault Identification on Top of Unit
LED status indication for easy viewing and simplified troubleshooting





ONE FAMILY, MANY LEVELS OF PROTECTION

Series	Macromatic's Three-Phase Monitor Relays Offer Protection Against:				
	Phase Reversal (Phase Sequence)	Phase Loss (Single Phase)	Undervoltage	Overtoltage	Phase Unbalance
PCP Series	Yes	—	—	—	—
PLP Series	Yes	Yes	—	—	—
PAP Series	Yes	Yes	Adjustable 75-95% of Line-Line Voltage	—	—
PMP Series	Yes	Yes	Adjustable 80-95% of Line-Line Voltage	Fixed at 110% of Line-Line Voltage	Adjustable 2-10%
PMP-FA Series	Yes	Yes	Fixed at 90% of Line-Line Voltage	Fixed at 110% of Line-Line Voltage	Fixed at 6%

All products work on 50/60 Hz

www.macromatic.com/ProtectMyMotor

ABOUT MACROMATIC INDUSTRIAL CONTROLS

Macromatic is a highly responsive, independently owned provider of industrial control and monitoring products. Located in America's Heartland, Macromatic's highly trained team uses state-of-the-art equipment and proven quality control methods to produce products with superior performance.

With almost 40 years of experience, Macromatic makes it simple and cost-effective to find a solution for your application.

- Five Year Warranty
- Short lead-times
- Superior customer service
- Advanced technical support
- Products meet UL and CE
- RoHS manufacturing



W134 N5345 Campbell Drive • Menomonee Falls, WI 53051

800.238.7474 • 262.781.3366 • FAX 262.781.4433

sales@macromatic.com • www.macromatic.com



All Macromatic plug-in and encapsulated products are either UL Component Recognized (UR) and CSA or UL Component Recognized combined with Canadian approval (cURus). All plug-in products are UL listed when used with the appropriate socket. All surface-mount products are UL Listed combined with Canadian approvals (cULus). Many products meet CE requirements. All Macromatic products are RoHS-compliant, ensuring they meet the latest requirements for protecting the environment.