



INSTALLATION INSTRUCTIONS

PAP PHASE MONITOR RELAYS
 PCP PHASE MONITOR RELAYS
 PLP PHASE MONITOR RELAYS
SERIES A

July, 2004 (New)

901-0000-109

READ INSTRUCTIONS BEFORE INSTALLING OR OPERATING THIS DEVICE. KEEP FOR FUTURE REFERENCE.

Warning

Potentially hazardous voltages are present. Turn off all power supplying this equipment before connecting or disconnecting wiring.

Protection Provided:

Product	Phase Reversal	Phase Loss	Undervoltage (75-95%)
PCP	X		
PLP	X	X	
PAP	X	X	X

Installation and Setup

NOTE: The Line Voltage connected to Pins 3, 4 & 5 must not exceed 110% of the Nominal Voltage rating on the product nameplate (**NOTE:** for the PCP2 product, the voltage must not exceed 110% of 480VAC, or 528VAC).

1. Mount an appropriate 8 pin 600V octal socket (Macromatic Product Number 70169-D).
2. (PAP only) Set UNDERVOLTAGE dial to 75% (minimum).
3. Connect the 3-phase line voltage to terminals 3, 4 & 5 (see Wiring Diagram below). DO NOT connect output terminal wires until later (Step 6). Plug the unit into the socket.
4. Apply Line Voltage. The LED indicator should illuminate RED. If not, a fault condition exists and must be corrected. Check to see if all phases are present. REMOVE LINE VOLTAGE, and switch any two of the line voltage connections to insure the phase rotation is correct. Reapply line voltage to check for correct phase rotation. (PAP only) Check to see if line voltage is at least 75% of the nominal voltage.
5. (PAP only) Set the UNDERVOLTAGE dial. This setting should be the same as the minimum operating voltage for the equipment to be adequately protected.
6. Connect the output terminal wires.
7. Apply Line Voltage. The LED indicator will illuminate RED, the internal relay will energize, and the 3-phase system will become operational.
8. If the LED does not illuminate RED during regular operation, a fault condition has occurred. REMOVE LINE VOLTAGE, and check for proper phase rotation, presence of all three phases, and (PAP only) low voltage conditions. Correct if necessary. Re-energization is automatic upon correction of the fault condition.

Wiring Diagrams/Typical Connections

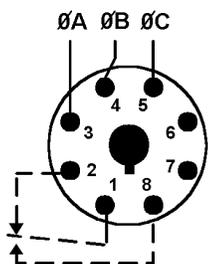
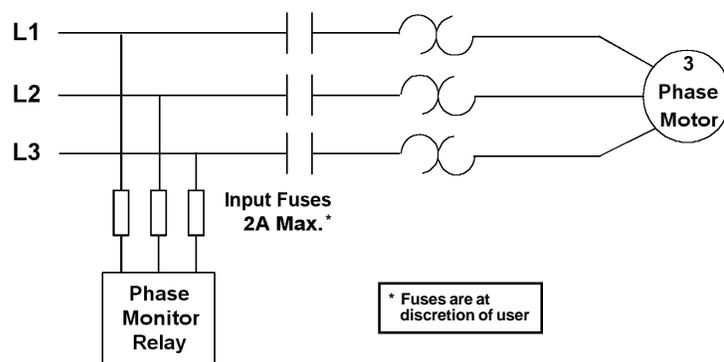


Diagram 23



* Fuses are at discretion of user

Warranty

All products manufactured by Macromatic are warranted to be free from defects in workmanship or material under normal service and use for a period of five (5) years from date of manufacture.