

3 Phase Voltage Monitor PLR Series Motor Protector



- Protects Against: Phase Loss (On Startup), Phase Reversal, Undervoltage
- Used Where Moderate Voltage Unbalance Protection is Not Required
- Direct Replacement for Most Popular 3 Phase Monitors
- 8-Pin Octal Base Connection
- SPDT Isolated 5 A Relay Contacts

Description

The PLR Series provides an excellent means of preventing motor startup during adverse voltage conditions. Proper A-B-C sequence must occur in order for the PLR's output contacts to energize. In addition, the relay will not energize when an undervoltage or phase loss condition is present.

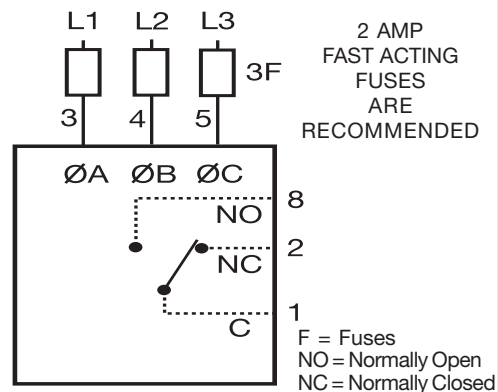
Operation

Internal relay is energized and LED glows when phase sequence and voltages are acceptable. When properly adjusted, relay will de-energize if phase loss or undervoltage occurs. Reset is automatic upon correction of the fault.

Field Adjustment: Turn the adjustment knob fully counterclockwise and apply three-phase power. LED should now be ON. Increase adjustment until LED goes OFF. Decrease adjustment until LED glows again. If nuisance tripping occurs, decrease the adjustment slightly.

NEMA MG1 14:30, 14:35 IEEE C62.41-1991
Level B AMSE A17.1 rule 210.6

- Approvals:   

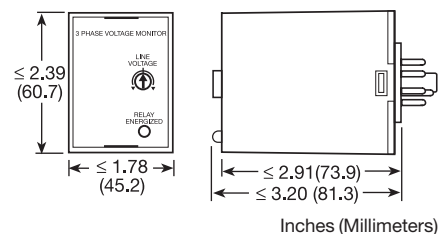


Relay contacts are isolated. Dashed lines are internal connections.

NOTE: When properly adjusted and operating in an average system, a voltage unbalance of 10% or more is required for phase loss detection. When a phase is lost while the motor is running, a voltage will be induced into the open phase nearly equal in magnitude to the normal phase-to-phase voltage. This condition is known as regeneration. **When regenerated voltages are present, the voltage unbalance during single phasing may not exceed 10% for some motors.** The PLR Series may not provide protection under this condition. For systems that require superior phase loss protection, select the PLMU Series.

Voltage	Part Number
95 ... 140 V AC	PLR120A
190 ... 270 V AC	PLR240A
340 ... 450 V AC	PLR380A
380 ... 500 V AC	PLR480A

Technical Data

[illegible]

Accessories

