Special Function - Phase Monitoring

R68 Series



Features

- Universal Voltage Works on Any 208-480V System
- **Protects Against:**
 - ⇒ Phase Loss
 - ⇒ Phase Reversal
 - ⇒ Phase Unbalance (Adjustable 2-10%)
 - ⇒ Undervoltage (Adjustable 80–95%)
 ⇒ Overvoltage (Fixed at 110%)
- User-Selectable Phase Unbalance and Undervoltage Settings
- User-Adjustable Time Delay Drop-Out on Undervoltage
- **LED Indicates both Normal and Fault Conditions**
- Compatible with most Wye or Delta Systems
- Compact 8-Pin Octal Plug-In Case



LED Status Table *

LED Status	Indicator
Green Steady	Normal/Relay ON
Green Flashing	Power Up/Restart Delay
Red Steady	Unbalance
Red Flashing	Undervoltage/Overvoltage
Amber Steady	Reversal
Amber Flashing	Loss
Green/Red Alternating	Undervoltage/Overvoltage
	Trip Pending
Red/Amber Alternating	Nominal Voltage Set Error

^{*} This table is on the side of all units for easy reference

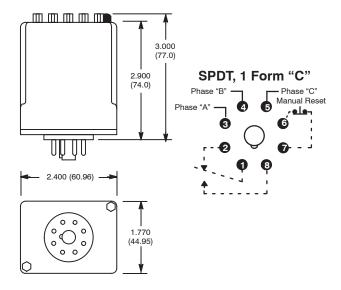
OPERATION

Phase Monitoring Relays will protect against premature equipment failure caused by voltage faults on three-phase systems. These devices 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 four fault conditions will de-energize the relay. Re-energization is automatic upon correction of the fault. An LÉD indicates normal and tripped conditions.

AC OPERATED								
NTE Type No.	Nom. Voltage	Contact Arr.	Adjustable Under Voltage Drop-out	Input Cur. Nom.	Max. Contact Cur. @ 30VDC or 240VAC	Diag No.		
R68-5A10-480	208-480VAC	SPDT	80–95% nom. vltg.	50mA Max.	10A	D62		

Phase Monitoring, SPDT, 10 Amp, AC Relay.

D62



Electrical Specifications

Contact

Rating: 10 Amps resistive at 240VAC/30VDC, 1/2 HP at 120/240VAC

Life: 100,000 operations at full load

Mechanical Life: 10,000,000 operations at no load

Input

Nominal Input voltage: See Chart Steady state input current: See Chart

Operational Characteristics

Response Times: . . Power Up: 2 sec. fixed

Restart After Fault: 1-300 sec. adjustable

Drop-Out Due Fault:

Phase Loss & Reversal: 100ms fixed Phase Unbalanced: 2 sec. fixed Undervoltage: 0.1 - 20 sec. adjustable Overvoltage: Fixed Time Based on

Inverse Time Curve

Hysteresis: 2 - 3%

Load (Burden): Less than 3VA

Protection

Indicator LED: See LED Status table

Reset: Automatic upon correction of fault. When a N.C. switch is wired across the manual reset terminals (Pin5 & Pin6), the unit switches to manual reset mode and remote manual reset is available.

Environmental Characteristics

Operating: -28°C to +65°C

ACCESSORIES					
MOUNTING STYLES	DESCRIPTION	NTE TYPE NO.			
SURFACE MOUNT	8-PIN OCTAL	R95-101			
PANEL MOUNT	8-PIN OCTAL	R95-118			
DIN RAIL MOUNT	8-PIN OCTAL	R95-113			