Voltage Monitoring Relay

Part No. AMR-AP3U690V2D

FEATURES

- Undervoltage Monitoring 3-Phase
- Phase Sequence and Phase Failure
- Supply Voltage = Measuring Voltage
- 22.5mm Wide Industrial Design

FUNCTIONS

- Undervoltage Monitoring
- Phase Sequence Monitoring
- Phase Failure Monitoring







SPECIFICATIONS

Measuring circuit

Measured Variable	3 Phase, AC Sinus
Input	Terminal L1, L2, L3
Overload Capacity	3 Phase 794V
Hysteresis	approx. 2% of adjusted value
Asymmetry	fix, 25%
Base Accuracy	≤3% (of max. scale value)
Adjustment Accuracy	≤5% (of max. scale value)
Repetition Accuracy	≤2%
Temperature Influence	≤0.07% / °C

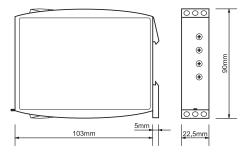
Input

mpar	
Supply Voltage/	3 Phase/ 177V-794V
Measuring Voltage	
Frequency	20-70Hz
Power Consumption	2VA (1.2W)
Reset Time	500ms
Drop-out voltage	>20% of Supply

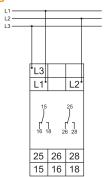
Output

Output Configuration	2 x DPDT (C/O)
Output Contact Rating	5A/ 250VAC
	5A/ 30VDC
Trip Delay	0.1s-10s (adjustable)
Electrical Life	200,000 cycles
Mechanical Life	2,000,000 cycles
Switching Frequency	max, 60/min

Dimensions



Connection Diagram



Material

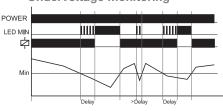
Operating Temperature	-25 - 70°C	
Storage Temperature	-25 - 70°C	
Protection	IP40 (Enclosure),	
Enclosure	IP20 (Terminals)	
Terminal Torque	1.0 Nm (8.5lbin)	
Wire Size Terminals	20-14 AWG	
Weight		

Indicators

Green LED POWER ON	Supply Voltage present
Red LED MIN ON	Failure - Undervoltage
Red LED MIN flashes	Indicator Trip Delay
Red LED SEQ ON	Failure - Phase Sequence
Yellow LED ON/ OFF	Indicator Relay Output

FUNCTIONS

Undervoltage Monitoring



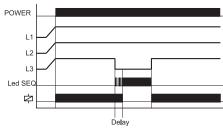
When measured voltage (mean value phase-to-phase) drops below set MIN value, set Trip Delay interval starts (red LED MIN flashes). After interval has expired (red LED MIN 0N), output relays switch into OFF-position (yellow LED OFF). Output relays switch back to ON-position -(yellow LED ON), when measured voltage exceeds set MIN value.

Phase Sequence Monitoring



Liff a change in phase sequence is detected (red LED SEQ ON), output relays switch into OFF-position immediately (yellow LED OFF).

Phase Failure Monitoring



If one phase voltage fails, set Trip **Delay** interval starts (red LED **MIN** flashes). After interval has expired (red LED **MIN** ON), output relays switch into **OFF**-position (yellow LED **OFF**). Reverse load voltages (e.g. a motor which continues to run on 2 phases only) do not affect the disconnection, but can be monitored by using a proper asymmetry value.

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