

3 Phase Over / Under Voltage Monitor (Incorporating Phase Reversal Detection)



Description

3 - Phase monitoring plug-in relay for separate upper and lower voltage control as well as phase failure / sequence. Often used where the generated electrical power is unstable (or incorrect) in order to secure the equipment.

FEATURES

- Monitoring relay and 3 - phase measuring relay for upper / lower phase to phase voltage control
- Measures if all 3 phase to phase voltages are within set limits, present and in sequence
- Measures on own power supply
- Upper and lower limits separately adjustable
- LED indication for over / under volts
- Latch facility incorporated
- 10 second start-up delay
- 180 second response delay
- Output 10A SPDT

Input Specifications

Pin 5 Phase L1	
Pin 6 Phase L2	
Pin 7 Phase L3	
Power Supply	400V
Range	320 - 400V
Upper Limit	420 - 480V
Lower Limit	320 - 380V
Scale	$\pm 5 - 20\%$
Voltage Interruption	< 40ms
Dielectric Voltage	None (supply/electronics)
Rated Impulse Withstand	4kV (1.2/50 s line/line)

Supply Specifications

Power Supply AC Type	110, 230, 400V $\pm 10\%$
(Galvanic)	50 Hz ± 5 Hz
Isolation	4kV
Consumption	± 3 VA
	± 6 VA 525 V

Output Specifications

Output Specifications	SPDT
Rated Isolation	6000 VAC
Voltage	(contact / electric) 1000 VAC (contact / contact)
Nominal Rate in AC1	1500 VA (Ag-Ni)
Rated Current	10A
Rated Voltage	250V
Mechanical Life	10×10^6 cycles
Electrical Life	110×10^3 cycles (at max load)
Operation Frequency	≤ 1800 cycles/h

General Specifications

Power ON Delay	≤ 300 ms
Power OFF Delay	≤ 200 ms
Indication for	
Power Supply ON	LED red
Over Voltage	LED yellow
Under Voltage	LED yellow
Environment	
Degree Of Protection	IP 20
Operating Temperature	-10 to + 50°C
Storage Temperature	-50 to + 85°C
Weight	200g

