Date: 04 / 01 / 14

OPERATING INSTRUCTIONS: OP INST VPRA2M OP400-V01



FEATURES

- · Under Voltage, Over Voltage, Phase Asymmetry, Phase sequence, Phase Failure and Neutral loss detection
- · Adjustable over and under voltage trip level
- · Adjustable operate time and trip time delay
- DPDT Relay Output (5A Resistive)
- Din Rail mounting

SPECIFICATIONS

FUNCTION

Voltage and Phase controls

WIRING INPUT

1Ø-2 wire, 3Ø-4 wire

AUXILIARY

Self powered **Nominal Supply** 230V AC (L-N)

OPERATING RANGE

127 - 288V AC(L-N)

FREQUENCY RANGE 48 - 63Hz

VARATING

RESET

Auto

TRIP SETTING

Under Voltage : 127 to 219V AC(L-N) : 242 to 288V AC(L-N) Over Voltage

Phase asymmetry: >10%

Setting accuracy : ±5% of full scale (Trip) ± 10% of full scale (Time)

TIME DELAY Power ON Delay : 0-15 Sec For 0 setting : <400msec Trip Time Delay :0-15 Sec

For 0 setting : <100msec Recovery Time Delay: 5 Sec. ±200ms For L1 / Neutral loss Trip Delay: <200ms For Phase Sequence Trip Delay: <250ms

HYSTERISIS

7V ± 2V of trip Setting **OUTPUT SPECIFICATIONS**

1 Relay: 2 C/O(DPDT)

RELAY RATING

5A (Res) @ 250V AC/28V DC

LED INDICATION

 Green : Power ON Blink : L2/L3 Phase Loss OV : Over Voltage UV : Under Voltage ON : Phase Reverse : Phase asymmetry

ENVIRONMENTAL CONDITIONS

Temperature: Operating: -10°C to 55°C Storage : -25°C to 70°C Humidity : Up to 85% non-condensing

MECHANICAL SPECIFICATIONS

Mounting : Din rail mounting Dimension: 35 x 90 x 60mm Enclosure : UL94VO Degree of Protection

IP 20 for Terminal IP 40 for Enclosure

IP 50 for Faceplate

WEIGHT

150gms

▲ SAFETY PRECAUTIONS

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If there is physical damage to the unit then do not use it. Read complete instructions prior to installation of unit.

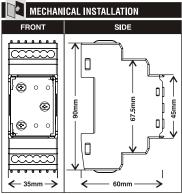
WIRING GUIDELINES

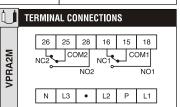
/ WARNING :

- 1. To prevent the risk of electric shock, power supply to the equipment must be kept OFF while doing the wiring arrangement.
- 2. Wiring shall be done strictly according to the terminal layout. Confirm that all connections are correct.

CAUTION :

- 1. To ensure the safe operate of unit check wiring connection
- 2. It is recomm. to test the unit period to satisfy resolutions.





LED INDICATION CHART						
POWER LED	UNDER VOLTAGE LED	OVER VOLTAGE LED	PHASE REVERSE / ASYMMETRY			
ON	OFF	OFF	OFF			
ON	ON	OFF	OFF			
ON	OFF	ON	OFF			
ON	OFF	OFF	ON			
ON	OFF	OFF	BLINK			
BLINK	OFF	OFF	OFF			
	NO POWER NO	NO	NO OFF OFF			

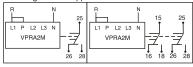
OPERATING MODES

Product operates in single phase as well as three phase mode.

A) Single Phase Mode:

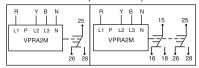
Connect R-Phase at L1, P and Neutral at N terminal. L2 and L3 connections are kept open. In single phase mode device monitors only L1 phase for OV and UV condition.

Single Phase Application



B) Three Phase Mode:

Connect three phase at L1, L2, L3 and Neutral at N terminal. Keep 'P' terminal open.



ORDER CODE INFORMATION					
PRODUCT	CERTIFICATION				
	(€	RoHS			
VPRA2M	•				
VPRA2M-RoHS					

(Specifications subject to change as development is a continuous process.)

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Doc. name : OP INST VPRA2M

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