

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

Diri Haii mounti

SPECIFICATIONS FUNCTION Voltage and Phase controls WIRING INPUT 1Ø-2wire, 3Ø-4wire AUXILIARY Selfpowered Nominal Supply (Un) 230V AC (L-N) **OPERATING RANGE** 127-288V AC(L-N) FREQUENCY RANGE 48-63Hz **VA RATING** 5VA RESET Auto TRIP SETTING Under Voltage : 55 to 95% of Un 127 to 219V AC(L-N) Over Voltage : 105 to 125% of Un 242 to 288V AC(L-N) 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/L3PhaseLoss
- OV : Over Voltage
- UV :Under Voltage
- ON : Phase Reverse
- Blink : Phase asymmetry
- ENVIRONMENTAL CONDITIONS Temperature : Operating : -10°C to 55°C
- Storage : 25°C to 70°C Humidity : Up to 95% non-condensing
- MECHANICAL SPECIFICATIONS Mounting : Din rail mounting Dimension : 35 x 90 x 60mm Enclosure : UL94VO Screw tightening torque : 0.5 N-M Degree of Protection IP 20 for Terminal IP 40 for Enclosure IP 50 for Faceplate WEIGHT

150ams

A 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.

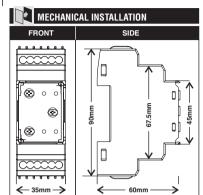
WIRING GUIDELINES

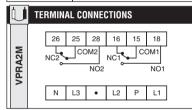
WARNING :

- To prevent the risk of electric shock, power supply to the equipment must be kept OFF while doing the wiring arrangement.
- 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

SUPPLY	POWER LED	UNDER Voltage Led	OVER Voltage Led	PHASE REVERSE / Asymmetry
NOMINAL CONDITION	ON	OFF	OFF	OFF
UNDER VOLTAGE	ON	ON	OFF	OFF
OVER VOLTAGE	ON	OFF	ON	OFF
PHASE REVERSED	ON	OFF	OFF	ON
PHASE ASYMMETRY	ON	OFF	OFF	BLINK
L2/L3 PHASE FAIL	BLINK	OFF	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

R N 25	R N 15 25
L1 P L2 L3 N	L1 P L2 L3 N
26 28	

B) Three Phase Mode :

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

R Y B N L1 P L2 L3 N VPRA2M 25 25 25 25 25 25 25 25 25 25	R Y B N L1 P L2 L3 N VPRA2M 16 18 26 28
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Fuse Protection on each Phase : 0.5A

ORDER CODE INFORMATION PRODUCT CERTIFICATION C (RoHS VPRA2M — VPRA2M-CE ■

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



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