



DIN : 35mm

Features:

- 1Ø - 2 Wire, 3Ø - 4 Wire Input
- Monitors Under Voltage, Over Voltage, Phase Asymmetry, Phase Failure, Phase Sequence
- LED Indication : Power ON / Phase failure, Under voltage, Over voltage, Phase sequence / asymmetry
- DIN Rail Mount
- Adjustable Over and under voltage Trip level
- Adjustable Trip time delay

Certifications: 

Display Specifications

Type	Analog
No. of LED	4
No. Of Knob	3
LED Indication	Power ON / Phase failure, Under voltage, Over voltage, Phase sequence / asymmetry

LED Indication Chart

Supply	Power LED	Under Voltage LED	Over Voltage LED	Phase Reverse/ Assymetry LED
Nominal Condition	ON	OFF	OFF	OFF
Under Voltage	ON	ON	OFF	OFF
Over Voltage	ON	OFF	ON	OFF
Phase Sequence	ON	OFF	OFF	ON
Phase Asymmetry	ON	OFF	OFF	Blink
Phase Failure (L2/L3)	Blink	OFF	OFF	OFF

Input Specifications

Functions	
Measurements	Under Voltage, Over Voltage, Phase Asymmetry, Phase Failure & Phase Sequence
Reset	Auto
Electrical Connection	1Ø - 2Wire, 3Ø - 4Wire
Trip Settings	
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 Sequence	Yes
Phase Failure	Yes
Phase Asymmetry	> 10%

Trip 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 (Fixed) ±200ms
Phase Sequence Trip Delay	<250msec

Hysteresis

Voltage	7V (±2V) of trip setting
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Accuracy

Trip Setting Accuracy	±5% of F. S.
Time Setting Accuracy	±10% of F. S.

Output Specifications

Output Contact	DPDT (2 C/O)
Contact Rating	5A @ 250V AC / 28V DC
Electrical Life	1 x 10 ⁵ (100000)
Mechanical Life	1 x 10 ⁷ (10000000)

Auxiliary Supply Specifications

Nominal Input Voltage, Un	230V AC (L-N)
Operating Voltage	127 to 288V AC (L-N)
VA Rating	5VA max
Frequency	48 - 63Hz

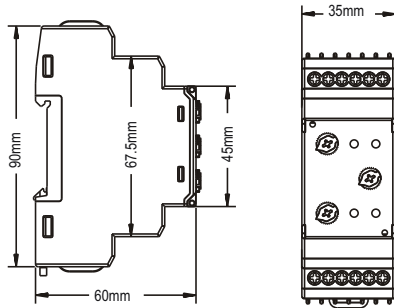
Environmental Specifications

Temperature	Operating : -10 to 55°C Storage: -25 to 70°C
Humidity (non-condensing)	Upto 95% RH
Pollution Degree	
For PCB	2
For Product	3
Degree of Protection of Device	IP20

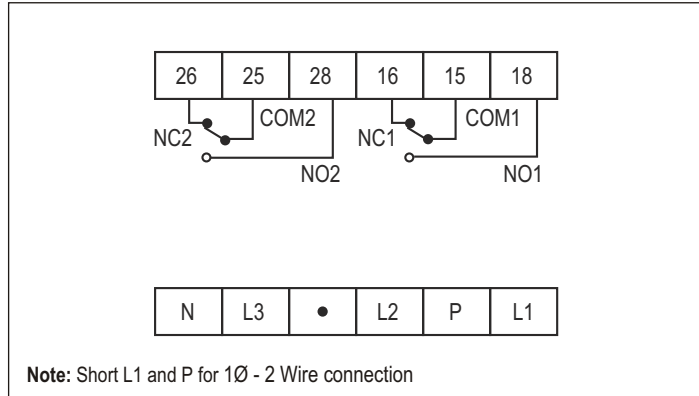
Mechanical Specifications

Mounting	DIN Rail
Weight	150 gms

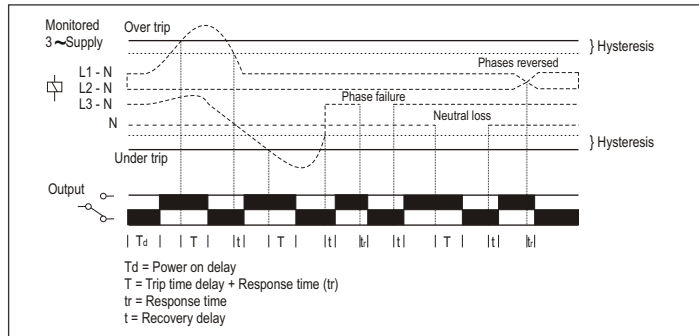
Dimensions



Terminal Connections



Timing Diagram



Compliance

Applicable EMI / EMC Standards		
Product Standard		
Category	Reference Standards	Testing Level
Electrostatic Discharge	IEC 61000-4-2	Level-3
Electrical Fast Transient / Burst	IEC 61000-4-4	Level-3
Electromagnetic Field	IEC 61000-4-3	Level-3
Surge	IEC 61000-4-5	Level-3
Conducted RF	IEC 61000-4-6	Level-2
Rated Power Frequency	IEC 61000-4-8	Level-4
Voltage Dip / Short Interruptions	IEC 61000-4-11	Level-3
Conducted Emissions	CISPR-11	Class-B
Radiated Emission	CISPR-22	Class-A
Emission & Immunity	IEC 61326-1	
Safety	IEC 61010-1	

Ordering Information

Product Code	Operating Range	Certification
VPRA2M	127 to 288V AC (L-N)	--
VPRA2M-CE	127 to 288V AC (L-N)	CE