



Features:

- 1Ø - 2Wire, 3Ø - 4Wire Input
- Monitors Under Voltage, Over Voltage, Phase Sequence, Phase Asymmetry and Phase Failure
- True RMS Measurement
- Power ON delay, Trip Time Delay & Recovery time delay
- Adjustable Switching Hysteresis
- LCD or LCD with backlight (Optional)*
- DIN Rail Mount

Size: 35mm (Width)

Certifications:  RoHS

Technical Specifications

Display

Display	LCD or LCD with backlight (Optional)*
Digits	3

Input Specifications

Functions	
Measurements	Under Voltage, Over Voltage, Phase Sequence Phase Asymmetry and Phase Failure
Time Setting	Power ON delay, Trip time delay, Recovery time delay
Alarm Indications	Trip
Latching	Selectable
Reset	Auto / Manual
Electrical Connection	1Ø - 2Wire, 3Ø - 4Wire
Auxiliary Supply	
Supply Voltage	Self powered
Nominal Input Voltage, Un	230V AC (L-N)
Operating Voltage	127 to 288V AC (L-N)
VA Rating	5VA max
Frequency	48 - 63Hz
Trip Settings	
Under Voltage	127 to 219V AC (L-N)
Over Voltage	242 to 288V AC (L-N)
Phase Sequence	Yes
Phase Failure	Yes
Phase Asymmetry	5 - 30%
Trip Time Settings	
Power On Delay	0.5-300 sec
Trip Time Delay	0-300 sec
Recovery Time Delay	0-300 sec
Response Time	<150ms

Note: * only for products with backlight

Hysteresis

Voltage	1.0 - 99.9V for voltage
Asymmetry	2 - 20% (Only for 3Ø 4wire)

Resolution

Voltage	1V
Time Setting	
0-10sec	0.1sec
10-99sec	1sec
100-300sec	10sec

Accuracy

Voltage	±1% ±2 digit
Trip Setting Accuracy	±5% of setting + 150ms
Time Setting Accuracy	±5% of setting + 150ms

Output Specifications

No. of Relays	1
Type of Output	2 C/O (DPDT)
Contact Rating	NO, NC : 5A @ 250V AC
Electrical Life	1 x 10 ⁵ (100000)
Mechanical Life	1 x 10 ⁷ (10000000)

LED Indication

LED1 (Green)	Power ON (Only for products without backlight)
LED2 (Red)	Relay (Continuously ON after trip)

Environmental Specifications

Ambient Temperature	Operating Temperature: -10°C to 55°C Storage Temperature : -25°C to +70°C
Humidity (non-condensing)	Upto 95% RH
Pollution Degree	2
Degree of protection	IP50 Faceplate IP30 Housing IP20 Terminals

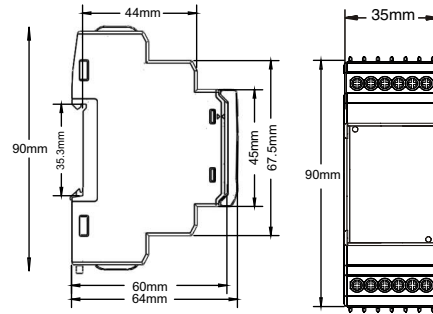
Mechanical Specifications

No. of Push Button	3
Enclosure	UL 94V0
Size	35mm (width)
Mounting	DIN Rail
Weight	112 gm
Protection Level	IP20 for Terminals IP40 for Enclosure
Conductor cross section (Solid)	1 x (0.5 to 4) Sq mm
Conductor cross section sleeved (Standard)	2 x (0.5 to 1.5) Sq mm 1 x (0.5 to 2.5) Sq mm
Screw tightening torque	0.5 N-m

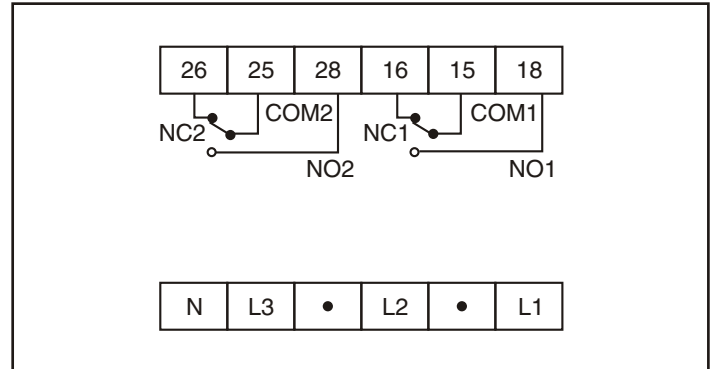
Standards

EMI/EMC	IEC61326-1 (2005-12)
Electromagnetic compatibility	IEC 61326-1
ESD Immunity: IEC 61000-4-2	Level III
Surge Immunity: IEC 61000-4-5	+/- 2 kV common mode, +/- 1 kV differential mode
Radiated Susceptibility: IEC 61000-4-3	Level III, 80 to 1000 MHz Level II, 1GHz to 2GHz Level I, 2GHz to 2.7GHz
Conducted Susceptibility: IEC 61000-4-6	Level II
Voltage Dips and Interruption: IEC 61000-4-11	Dips: 0% residual voltage/1 cycle (Crit A), 40% residual voltage/10 cycles 50 Hz / 12 cycles 60 Hz (Crit A) 70% residual voltage / 25 cycles 50 Hz / 30 cycles 60 Hz (Crit C) Interruptions: 0% residual voltage / 250 cycles 50 Hz / 300 cycles 60 Hz (Crit C)
Conducted Emissions	CISPR-11 & IEC 61000-6-3
Radiated Emissions	CISPR-22
Electrical Fast Transient: IEC 61000-4-4	Level 3.
Safety	IEC61010-1 (2010)
Breakdown Voltage	IEC61010-1 (2.5kV)

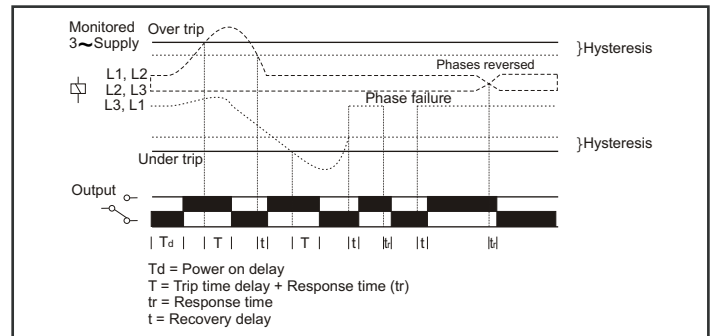
Dimensions



Terminal Connections



Timing Diagram



Ordering Information

Part No.	Supply Voltage	Certification	Backlight
VPRD2M	127 to 288V AC (L-N)	-	NA
VPRD2M-CE*	127 to 288V AC (L-N)	CE RoHS	Yes