



## Features:

- 3Ø - 3 Wire, 3Ø - 4 Wire Input
- Monitors Under voltage, Over voltage, Under frequency, Over frequency, Phase asymmetry, Phase failure and Phase sequence
- True RMS measurement
- Power ON delay, Trip time delay and Recovery time delay
- Adjustable switching Hysteresis
- Two separate alarm relays
- LCD
- Din Rail mount

Size : 35 mm (Width)

Certifications :    Listed E349567

## Technical Specifications

### Display

Display	Liquid Crystal Display
Digits	3

### Input Specifications

Functions	
Measurements	Under voltage, Over voltage, Under frequency, Over frequency, Phase asymmetry, Phase failure and Phase sequence
Time Setting	Power ON delay, Trip time delay and Recovery time delay
Alarm Indications	Trip
Latching	Selectable
Reset	Auto / Manual
Electrical Connection	3Ø - 3 wire, 3Ø - 4 wire
Auxiliary Supply	
Supply Voltage	Self powered
Operating Range	280 - 520V AC (L - L) 160 - 300V AC (L - N)
VA Rating	30VA max.
Frequency	45 - 65 Hz
Measuring Range	
(RMS Value)	0 - 520V AC (L - L)* 0 - 300V AC (L - N)*
Trip Settings	
Under Voltage	280 to 520V AC (L - L) [for 3Ø - 3 wire] 160 to 300V AC (L - N) [for 3Ø - 4 wire]
Over Voltage	280 to 520V AC (L - L) [for 3Ø - 3 wire] 160 to 300V AC (L - N) [for 3Ø - 4 wire]
Under Frequency	45 - 65 Hz
Over Frequency	45 - 65 Hz
Phase Failure	Yes
Phase Sequence	Yes

### Input Specifications

Trip Time Settings	
Power ON Delay	2 - 99.9 Sec
Trip Time Delay	0 - 99.9 Sec
Recovery Time Delay	0 - 99.9 Sec
Response Time	<200 mSec
Hysteresis	
Voltage	1.0 - 99.9 V
Frequency	0.2 - 2 Hz
Asymmetry	2 - 20%
Resolution	
Voltage	1V
Frequency	0.1 Hz
Accuracy	
Voltage	±1% of set value
Frequency	±0.3 Hz
Time Setting Accuracy	±5% of setting + 200ms

### Output Specifications

No. of Relays	2
Type of output (Relay 1)	1 C/O (SPDT)
Type of output (Relay 2)	1 C/O (SPDT)
Relay Rating	NO : 5A @ 250V AC NC : 3A @ 250V AC

### LED Indication

LED 1 (Green)	Power ON
LED 2 (Red)	Relay1 (Continuously ON after trip)
LED 3 (Red)	Relay2 (Continuously ON after trip)

\* For 3Ø-3W, at least 2 phase must be present ; \* For 3Ø-4W, at least 1 phase must be present.  
Phase Asymmetry : 5.0 - 99.9.1

### Environmental Specifications

Operating Temperature	0°C to 55°C
Storage Temperature	-20°C to +70°C
Humidity (non-condensing)	95% RH
Pollution Degree	2

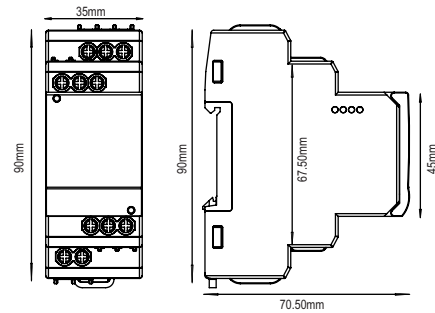
### Mechanical Specifications

No. of Push Button	3
Size	35 mm width
Mounting	Din Rail
Weight	135 g
Conductor cross section (Solid)	1 x (0.5 to 4) Sq mm
Conductor cross section sleeved (Stranded)	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

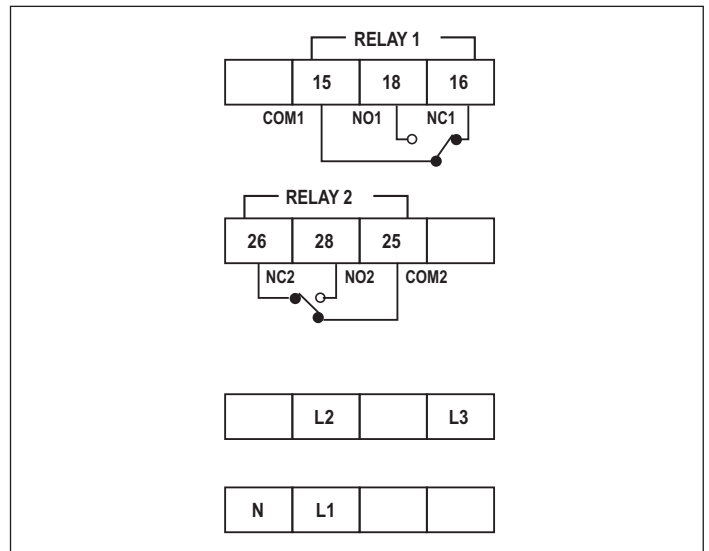
### EMC

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
Conducted Susceptibility: IEC 61000-4-6	Level II
Voltage Dips and Interruption IEC 61000-4-11	Dips: 0% residual voltage / 1 cycle (Crit B.), 40% residual voltage / 10 cycles 50 Hz / 12 cycles 60 Hz (Crit C) 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

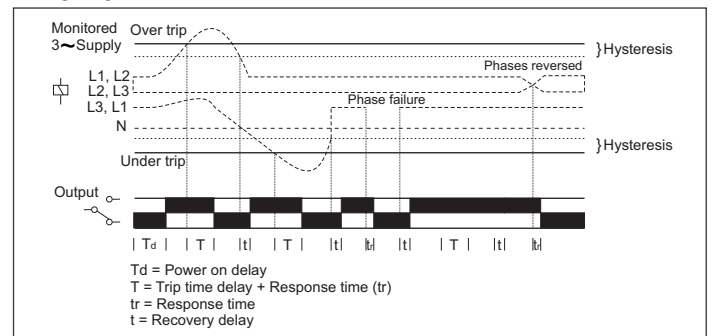
### Dimensions



### Terminal Connections



### Timing Diagram



### Ordering Information

Order Code	Supply Voltage	Certification
900VPR-2-280/520V	280-520V AC	-
900VPR-2-280/520V-CE	280-520V AC	CE RoHS
900VPR-2-280/520V-CU	280-520V AC	CE RoHS  Limited 2349567

**Note :** 900VPR-2-280/520V can not be used with AC/DC drives.