

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: 35mm (Width)

Certifications: **C** € RoHS

Technical Specifications

Display

Display	Liquid Crystal Display
Digits	3

In

Under Frequency Over Frequency

Phase Failure

Phase Sequence

nput 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 - 65Hz				
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]				

Input Specifications

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

Output Specifications

No. of Relays	2
Type of output (Relay1)	1C/0 (SPDT)
Type of output (Relay2)	1C/0 (SPDT)
Relay Rating	NO: 5A @ 250V AC
	NC: 3A @ 250V AC

LED Indication

LED1 (Green)	Power ON
LED2 (Red)	Relay1 (Continuously ON after trip)
LED3 (Red)	Relay2 (Continuously ON after trip)

Yes * For 3Ø-3W, at least 2 phase must be present; * For 3Ø-4W, at least 1 phase must be present

Yes

45 - 65Hz

45 - 65Hz

Environmental Specifications

Operating Temperature: 0°C to 55°C **Ambient Temperature** Storage Temperature : -20°C to +70°C 95% RH Humidity (non-condensing) Pollution Degree 2 Degree of protection IP50 Faceplate

IP30 Housing IP20 Terminals

Mechanical Specifications

No. of Push Button 3 Size 35mm width Mounting Din Rail Mount Weight 135 g Conductor cross section (Solid)

1 x (0.5 to 4) Sq mm Conductor cross section sleeved 2 x (0.5 to 1.5) Sq mm 1 x (0.5 to 2.5) Sq mm (Stranded)

Screw tightening torque 0.5 N-M

EMC

Electromagnetic compatibility IEC 61326-1 ESD Immunity: IEC 61000-4-2 Level III

+/- 1 kV differential mode Level III, 80 to 1000 MHz

Radiated Susceptibility: IEC 61000-4-3 Conducted Susceptibility: IEC 61000-4-6

Voltage Dips and Interruption:

Surge Immunity: IEC 61000-4-5

Dips: 0% residual voltage/1 cycle IEC 61000-4-11 (Crit B.),

40% residual voltage/10 cycles 50 Hz /

12 cycles 60 Hz (Crit C)

+/- 2 kV common mode,

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

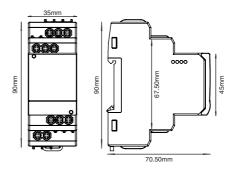
(Crit C)

Level II

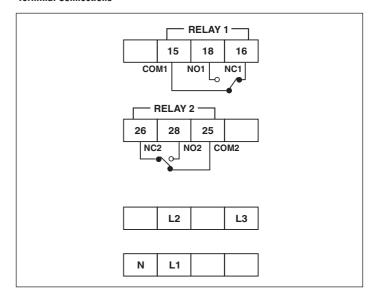
Conducted Emissions CISPR-11 & IEC 61000-6-3

Radiated Emissions CISPR-22 Electrical Fast Transient: IEC 61000-4-4 Level 3.

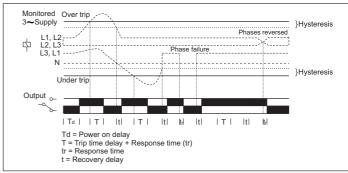
Dimensions



Terminal Connections



Timing Diagram



Ordering Information

Part No.	Supply Voltage	Certification
900VPR-2-280/520V-CE	280-520V AC	C€ RoHS
900VPR-2-280/520V	280-520V AC	-

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