

DIN 35mm

# 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
- **DIN Rail Mount**

Certifications : C € UL





## **Display Specifications**

Туре	Digital	
Display	Liquid Crystal Display	
No. of LED	3	
No. of Push Button	3	

## **LED Indication Chart**

Condition	'ON' LED	'R1' LED	'R2' LED
Nominal Condition	ON	OFF	OFF
Fault Condition If Programming Relay1	ON	ON	OFF
Fault Condition If Programming Relay2	ON	OFF	ON
Fault Condition (If Programming For Both Relay)	ON	ON	ON

## Input Specifications

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	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
	Measuring Range	
	(RMS Value)	280 to 520V AC (L - L) 160 to 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 / 65Hz
	Over Frequency	45 / 65Hz
	Phase Failure	Yes
	Phase Sequence	Yes
	Phase Asymmetry	5.0 - 99.9%

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

## **Output Specifications**

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

## **Auxiliary Supply Specifications**

Supp	ly Voltage	Self powered
Oper	ating Range	280 to 520V AC (L - L) 160 to 300V AC (L - N)
` Powe	er Consumption	50VA max
Frequ	uency	45 / 65Hz

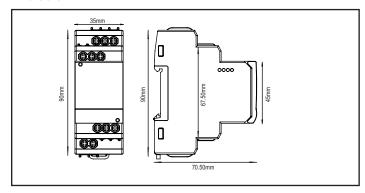
#### **Environmental Specifications**

Temperature	Operating Temperature : 0° to 55°C Storage Temperature : -20° to 70°C
Humidity (non-condensing)	95% RH
Pollution Degree	
For PCB	2
For Product	3
Degree of Protection Devices	IP20

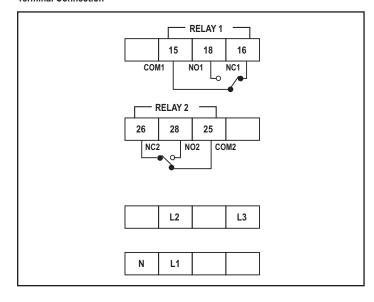
#### **Mechanical Specifications**

Mounting	DIN Rail
Weight	135g
Screw Tightening Torque	0.5 NM

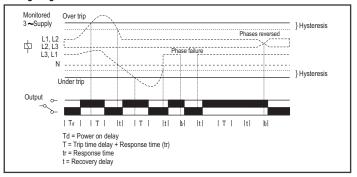
## Dimensions



## **Terminal Connection**



## **Timing Diagram**



#### Compliance

Applicable EMI / EMC Standards			
Product Standard : IEC 60947-2			
Category	Reference Standards	Testing Level	
Electrostatic Discharge	IEC 61000-4-2	Level-3	
Electrical Fast Transient / Brust	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 Emissions	CISPR-11	Class-A	
Emission & Immunity	IEC 61326-1		
Safety	IEC 61010-1		

# **Ordering Information**

Product Code	Operating Range	Certification
900VPR-2-280/520V-CE	280 to 520V AC	C€
900VPR-2-280/520V-CU-RoHS	280 to 520V AC	UL) USTEB

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