




## Features:

- 3Ø - 3 Wire Input
- Monitors , Phase Sequence, Under Voltage, Over Voltage
- Trip delay (T) -0.2 to 10Sec
- LED Indication: Relay ON, Power ON
- Slim, Space Saving Design
- DIN Rail Mount

Size: DIN 17.5mm

Certifications: 

## Technical Specifications

### Input Specifications

Accuracy	±1% of full scale
Reset	Auto reset

### Output Specifications

Output contact	SPDT (1C/O)
Contact rating	NO/5A, NC/3A@250V AC

### Functional Specification

<b>Voltage Rating</b>	
Measuring range (RMS value)	310 - 520V AC (L-L)
Setting range	310 - 520V AC (L-L)
<b>Functions</b>	
Phase reversal	Yes
Under voltage	310 - 405V AC (L-L)
Over voltage	425 - 520V AC(L-L)
<b>Delay</b>	
Power on delay	400ms
Trip time delay	0.2 - 10s
<b>Characteristics</b>	
Response time maximum	<200 ms
Recovery time	<300ms
Hysteresis	2V

### Supply Specification

<b>Auxiliary Circuit</b>	
Auxiliary Voltage	310 - 520V AC (L-L) (Self powered)
Power consumption	22VA
<b>Network</b>	
Protection (AC network)	3Ø-3W

### Main Circuit

Rated Insulation Voltage [Ui]	520V AC
Maximum operational voltage [Ue]	520V AC
Rated Frequency	45 - 65 Hz
Rated Impulse Withstand Voltage [Uimp]	2 kV

### Environmental Specifications

Ambient Temperature	Operating Temperature: 0°C to 50°C Storage Temperature : -20°C to +70°C
Humidity (non-condensing)	95% RH
Pollution Degree	2
Degree of protection	IP50 Faceplate IP40 Housing IP20 Terminals

### Connections

Screw	Yes (M3 size)
Screw tightening torque	0.6 - 0.8 NM
Conductor cross section (Solid)	1 x (0.5 to 4) Sq mm 2 X (0.5 to 1.5 ) Sq mm
Conductor cross section sleeved (Standard)	1 x (0.5 to 2.5) Sq mm 2 x (0.5 to 1.5) Sq mm

### Dimensions

Width	17.5 mm
Depth	60 mm
Height	90 mm
Weight	62 g
Mounting	35 mm din-rail
Orientation	any

### Endurance (Relay)

Mech Endurance operating cycles	10 (mio)
Elect Endurance @230V, AC15	0.1 (mio)

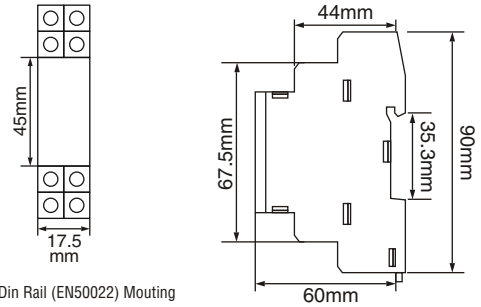
### EMC

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.

### LED Indication Chart

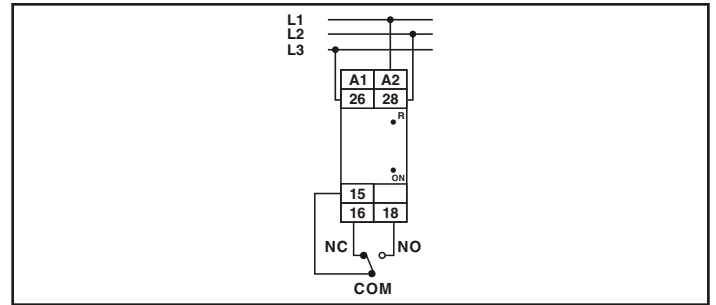
Supply	Relay LED (Green)	Power LED (Red)
Nominal condition	ON	ON
Phase reversed	OFF	ON
Under voltage / Over voltage	OFF	ON

### Dimensions

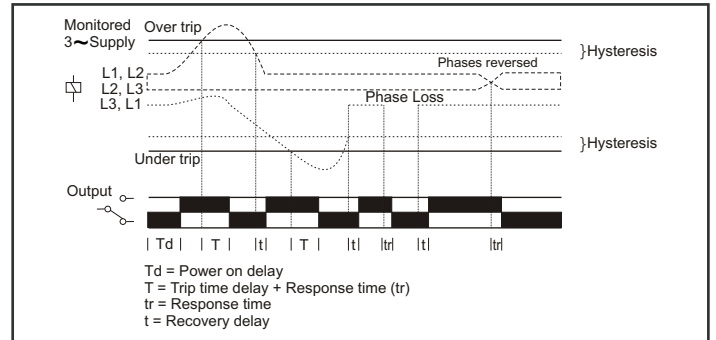


Symmetrical 35mm Din Rail (EN50022) Mounting

### Terminal Connections



### Timing Diagram



### Ordering Information

Part No.	Supply Voltage	Certification
	600VPR-310/520	310 - 520V AC