# 600VPR-310/520

# Voltage Protection Relay



DIN 17.5mm

## Features :

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

Certification : CE

### Display Specifications

| | |
|---|---|
| Type | Analog |
| No. of LED | 2 |
| No. of Knob | 3 |

### LED Indication Chart

| Condition | 'ON' LED | 'R' LED |
|---|---|---|
| Nominal Condition | ON | ON |
| Fault Conditon | ON | OFF |

### Input Specifications

| | |
|---|---|
| Accuracy (Trip Voltage) | ±0.5% of Full Scale |
| Accuracy (Trip Time) | ±5% of Full Scale |
| Reset | Auto reset on removal of fault condition |

### Output Specifications

| | |
|---|---|
| Relay Contact | 1 C/O (SPDT) |
| Relay Rating | NO / 5A, NC / 3A@250V AC |

### Auxiliary Supply Specifications

| | |
|---|---|
| Nominal Input Voltage | 415V AC |
| Operating Voltage | 310 to 520V AC |
| Power Consumption | 20VA max |

### Functional Specifications

| | |
|---|---|
| Phase Sequence | Yes |
| Phase Failure | ±0.5% of Full Scale |
| Under Voltage | 310 to 405V AC |
| Over Voltage | 425 to 520V AC |
| Trip delay (T) | 0.2 to 10sec |
| Power On Delay | 400msec |

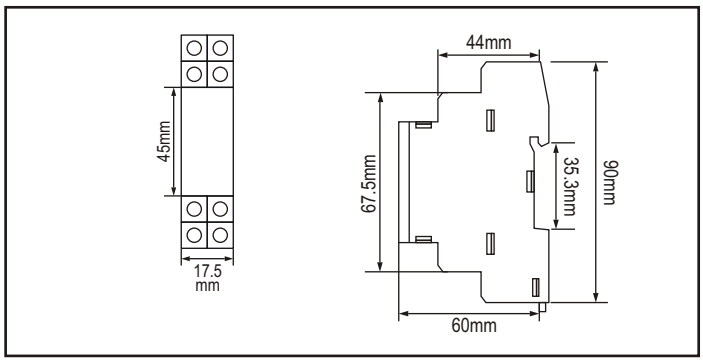
### Environmental Specifications

| | |
|---|---|
| Temperature | Operating Temperature : 0° to 50°C (32 to 122°F)<br>Storage Temperature : -20° to 75°C (-4 to 167°F) |
| Humidity (non-condensing) | Upto 95% RH |
| Pollution Degree | |
| For PCB | 2 |
| For Product | 3 |
| Degree of Protection Devices | IP20 |

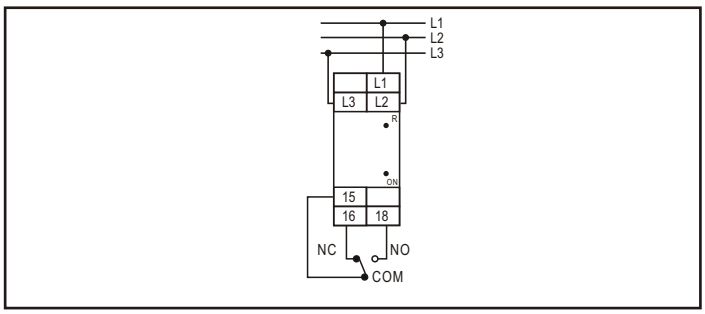
### Mechanical Specifications

| | |
|---|---|
| Mounting | DIN Rail |
| Weight | 62gms |
| Screw Tightening Torque | 0.6 NM |

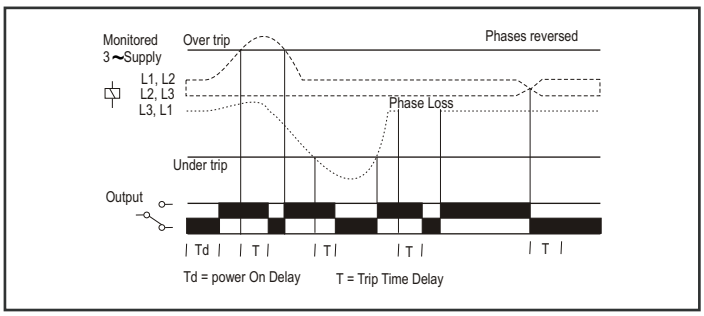
### Dimensions



### Terminal Connection




### Timing Diagram




### Compliance

| Applicable EMI / EMC Standards | | |
|---|---|---|
| **Product Standard : IEC 61326-1** | | |
| **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-22 | Class-A |
| Emission & Immunity | IEC 61326-1 | |
| Safety | IEC 61010-1 | |

## Ordering Information

| Product Code | Operating Range | Certification |
|---|---|---|
| **600VPR-310/520V-CE** | 310 to 520V AC | CE |