# 800VPR-3

# Voltage Protection Relay




DIN 22.5mm

## Features:

- 3Ø - 3 Wire Input
- Monitors Under Voltage, Over Voltage, Phase Failure and Phase Sequence
- LED Indication : Power ON, Relay ON
- Trip Time Delay, Power ON Delay, Response Time, Recovery Time
- DIN Rail Mount
- Trip Delay (T) : 0 to 10 sec

### Display Specifications

| | |
|---|---|
| Type | Analog |
| No. of LED | 2 |
| LED Indication | Power ON, Relay ON |

### LED Indication Chart

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

### Input Specifications

| | |
|---|---|
| **Functions** | |
| Measurements | Under Voltage, Over Voltage, Phase Failure, Phase Sequence |
| Time Settings | Trip Time Delay |
| Reset | Autoreset on Removal of Fault Condition |
| Electrical Connection | 3Ø - 3 wire |
| **Trip Settings** | |
| Under Voltage | 310 to 405V AC (L - L) |
| Over Voltage | 425 to 520V AC (L - L) |
| Phase Failure | Yes |
| Phase Sequence | Yes |
| **Trip Time Settings** | |
| Trip Time Delay | 0 - 10sec (For under and over voltages) Instantaneous (For phase loss & phase sequence) |
| Power On Delay | 400ms |
| **Hysteresis** | |
| Voltage | 2V |
| **Accuracy** | |
| Time Setting Accuracy | ±5% of Full Scale |
| Voltage | ±0.5% of Full Scale |

### Output Specifications

| | |
|---|---|
| No. of Relays | 1 |
| Relay Contact | 1 C/O (SPDT) |
| Relay Rating | NO / 5A, NC / 5A@250V AC, Resitive load |

### Auxiliary Supply Specifications

| | |
|---|---|
| Supply Specification | Self Powered |
| Nominal Input Voltage | 415V AC (L - L) |
| Operating Voltage | 310 to 520V AC (L - L) |
| Power Consumption | 22 VA max |
| Frequency | 50 / 60Hz |

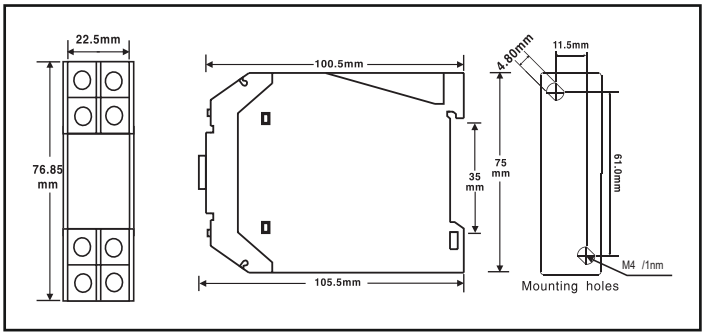
### Environmental Specifications

| | |
|---|---|
| Temperature | Operating Temperature : $0^{\circ}$ to $50^{\circ}$C<br>Storage Temperature : $-20^{\circ}$ to $70^{\circ}$C |
| Humidity (non-condensing) | Upto 95% RH |
| Pollution Degree | |
| For PCB | 2 |
| For Product | 3 |
| Degree of Protection Devices | IP20 |

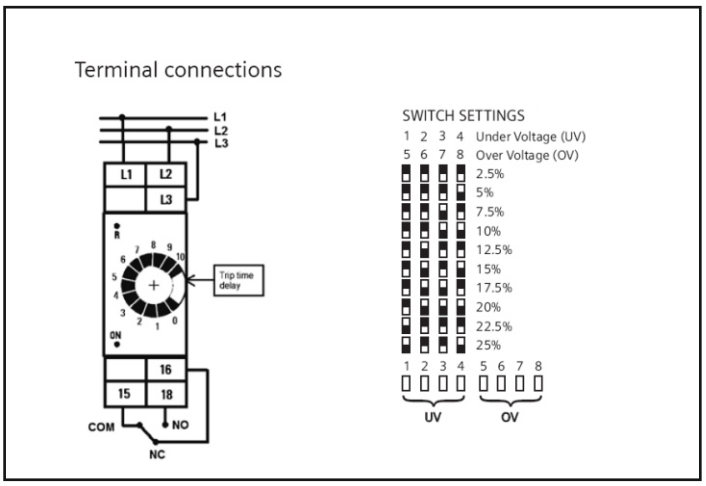
### Mechanical Specifications

| | |
|---|---|
| Mouting | DIN Rail |
| Weight | 100gms |

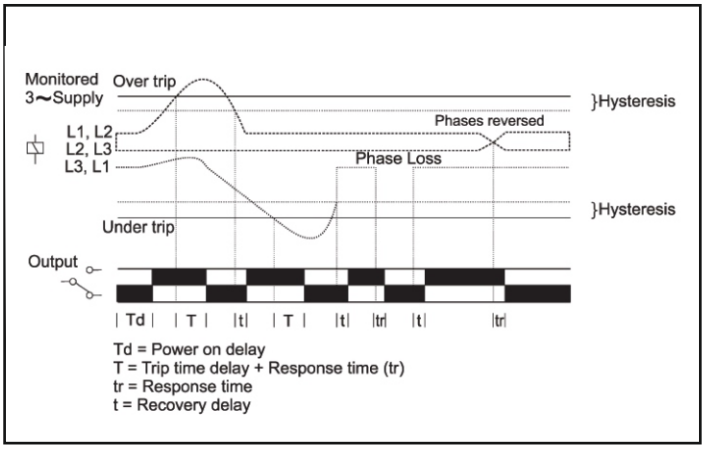
### Dimensions



### Terminal Connection




### Timing Diagram




Td = Power on delay
T = Trip time delay + Response time (tr)
tr = Response time
t = Recovery delay

## Ordering Information

| Product Code | Operating Range | Certification |
|---|---|---|
| 800VPR- 3 | 310 to 520V AC | -- |