



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 : 

### 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 Condition	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

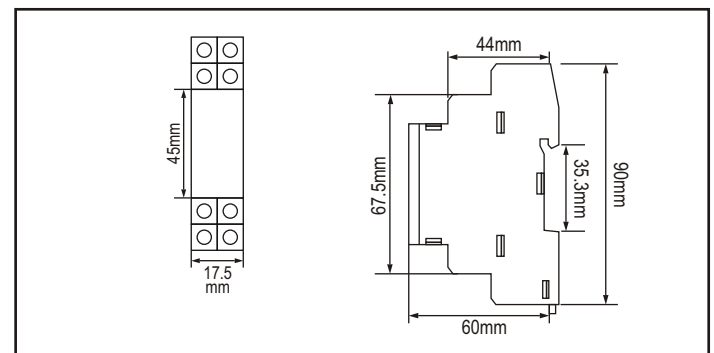
### Environmental Specifications

Temperature	Operating Temperature : 0° to 50°C (32 to 122°F) 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

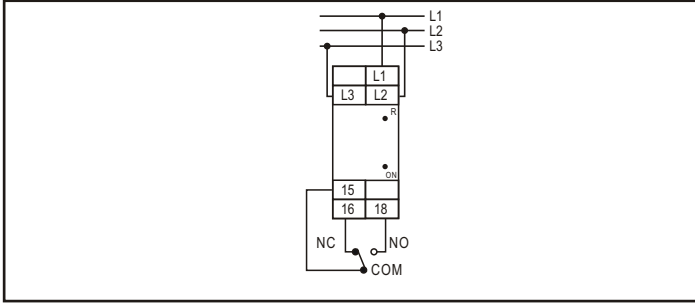
### Mechanical Specifications

Mounting	DIN Rail
Weight	62gms
Screw Tightening Torque	0.6 NM

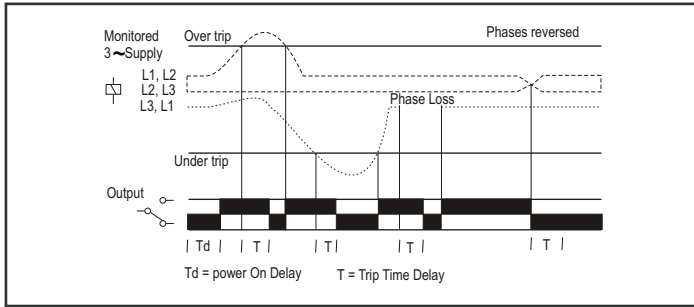
### Dimensions



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 / Burst	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

## OPERATING INSTRUCTIONS : OP INST 600VPR \_ OP410-V01

OP410-V01

**600VPR**  
Operating Instructions



17.5mm

**FEATURES**

- Monitoring 3 phase 3 wire input
- Detects phase loss
- Detects phase sequence
- Din Rail mounting

**SPECIFICATIONS**

**SUPPLY VOLTAGE**  
415V AC(L-L), 3Ø-3 wire

**OPERATING RANGE**  
310-520V AC (L-L)

**RATED FREQUENCY**  
45-65Hz

**VA RATING**  
22VA

**RESET**  
Auto Reset on removal of fault condition

**TRIP MODE**  
Phase Sequence Reverse,  
Phase Missing,  
Under Voltage : -2.5 to -25% of 415V AC  
Over Voltage : +2.5 to +25% of 415V AC

**TRIP ACCURACY**  
± 1% of full scale

**TIME RANGES**  
Response Time Max. : <200msec  
Recovery Time : <300msec  
Power On Delay : 400msec  
Trip Time Delay : 0.2 - 10sec

**HYSTERISIS**  
2V

**OUTPUT SPECIFICATION**  
Output Contact : SPDT (1C/O)  
Contact Rating : NO/5A, NC/3A @ 250V AC

**ENVIRONMENTAL SPECIFICATIONS**  
Temperature : Operating : 0°C to 50°C  
Storage : -20°C to 75°C

Humidity : Up to 95% RH

**MECHANICAL SPECIFICATIONS**  
Mounting : Din rail mounting  
Dimension : 17.5 x 90 x 60mm  
Housing : Flame Retardant Plastic  
Protection Level  
IP 20 for Terminal

**WEIGHT**  
62gms

**CERTIFICATION**  
CE

**SAFETY SUMMARY**

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipments is not handled in a manner specified by the manufacturer it might impair the protection provided by the equipment.

**CAUTION** : Read complete instructions prior to installation and operation of the unit.

**WIRING GUIDELINES**

**CAUTION**

- To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement.
- Wiring shall be done strictly according to the terminal layout. Confirm that all connections are correct.

Doc. name : OP INST 600VPR OP410-V01(Page 1 of 1) B-B

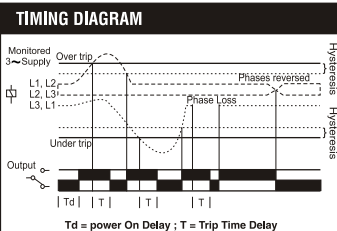
**CAUTION**

To ensure the safe operation of unit, check the wiring and connections.

**MAINTENANCE**

- The equipment should be cleaned regularly to avoid blockage of ventilating parts.
- Clean the equipment with a clean soft cloth. Do not use isopropyl alcohol or any other cleaning agent.

**TIMING DIAGRAM**



Td = power On Delay ; T = Trip Time Delay

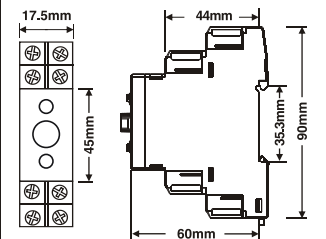
**LED INDICATION CHART**

Parameter	Green LED	Fail Safe Relay
Nominal Condition	ON	Energised
Phase reverse / Phase fail	OFF	De-energised
Under / Over Voltage	OFF	De-energised

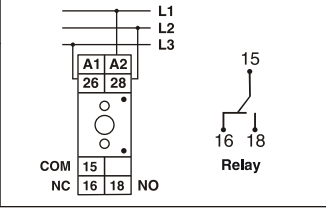
(Specifications subject to change as development is a continuous process.)

**Selec Controls Pvt. Ltd., India**  
Factory Address :  
EL-27/1, Electronic Zone, TTC Industrial Area,  
MIDC, Mahape, Navi Mumbai - 400 710, INDIA.  
Tel. No. : +91-22-28476443 / 1882  
Fax No. : +91-22-28471733 | Toll free : 1800 227 353  
Website: www.selec.com | Email: sales@selec.com

**MECHANICAL INSTALLATION**



**TERMINAL CONNECTIONS**



Doc. name : OP INST 600VPR OP410-V01(Page 1 of 1) B-B

**OPERATING SIZE : A5 ; PAGE : 1 (B-B)**

Prepared By	Checked By	Sales Engg. By	Marking Engg. By	Approval By
-------------	------------	----------------	------------------	-------------