



DIN 17.5mm

### Features :

- 3Ø - 3 Wire Input
- Monitors Phase Sequence, Phase Failure, Phase Asymmetry
- LED Indication : Healthy and Trip conditions
- Slim and Space saving design
- DIN Rail Mount and Wall Mount

Certification :

### Display specifications

Type	Analog
No of LED	3

### LED indication chart

Conditions	LED 1	LED 2	LED 3
Power ON Delay	OFF	OFF	OFF
Healthy	ON	ON	ON
Below operating range	OFF	OFF	OFF
R phase loss	OFF	ON	ON
Y phase loss	ON	OFF	ON
B phase loss	ON	ON	OFF
Phase sequence	Blink every 1sec	Blink every 1sec	Blink every 1sec
R Phase asymmetry	Blink every 1sec	ON	ON
Y Phase asymmetry	ON	Blink every 1sec	ON
B Phase asymmetry	ON	ON	Blink every 1sec

### Input specifications

Operating voltage range	154 – 520V AC
Nominal voltage	415V AC
VA rating	<20 VA
Frequency	50/60 Hz
Voltage accuracy	±1% of full range
Time accuracy	±5% of set value

### Output specifications

Type of relay	1 SPDT Relay (1C/O)
Relay contact Rating	NO : 5A@250V AC / 30VDC (Resistive) NC : 5A@250V AC / 30VDC (Resistive)
Electrical endurance	5 x 10 <sup>4</sup>
Mechanical endurance	10 <sup>7</sup>

### Functional specifications

Phase asymmetry	>40V(L-L)
Phase failure	>100V(L-L)
Phase sequence	Yes
Reset	Auto reset on removal of fault condition

### Trip Time setting

Power ON Delay	<400 msec
Trip Time Delay	<250 msec
Response Time	<250 msec
Recovery Time	<250 msec

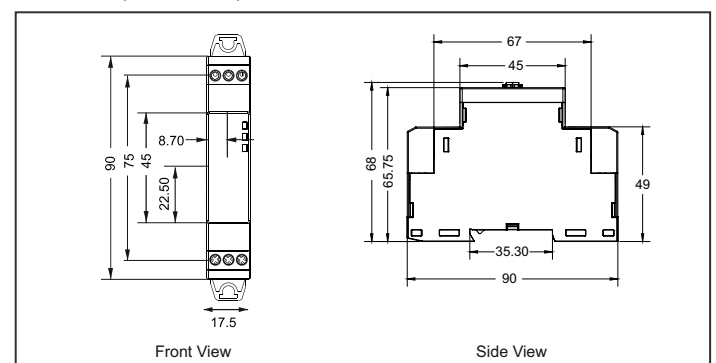
### Environmental specifications

Operating temperature	0°C to +50°C
Storage temperature	-20°C to +70°C
Relative humidity (non-condensing)	Up to 95% RH
Degree of protection	IP20 for Terminals IP50 for Enclosure
Degree of Pollution	
For product	III
For PCB	II

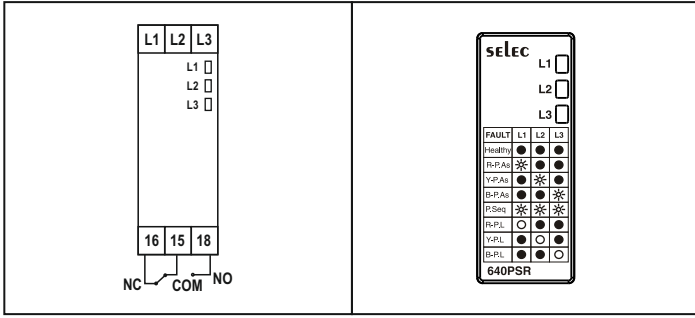
### Mechanical specifications

Mounting	DIN rail and Wall mount
Weight	70gms
Screw tightening torque	0.5NM

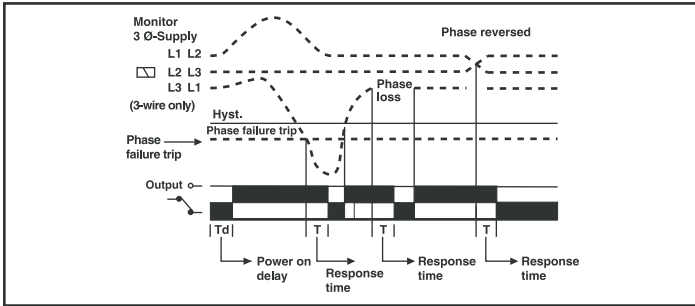
### Dimensions (All are in mm)



Terminal connections



Timing diagram



Ordering information

Product code	Supply voltage	Certification
640PSR-CE	154 to 520V AC	CE

Compliance

Applicable EMC standards	
Product standard - IEC 60255-1/IEC 60947-5-1	
Category	Reference standards
Electrostatic discharge	IEC 61000-4-2
Electrical fast transient / Burst	IEC 61000-4-4
Electromagnetic field	IEC 61000-4-3
Surge	IEC 61000-4-5
Conducted RF	IEC 61000-4-6
Rated power frequency	IEC 61000-4-8
Voltage dip / Short interruptions	IEC 61000-4-11
Conducted emissions	CISPR-22
Radiated emissions	CISPR-11