



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 ⁴
Mechanical endurance	10 ⁴ 7

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

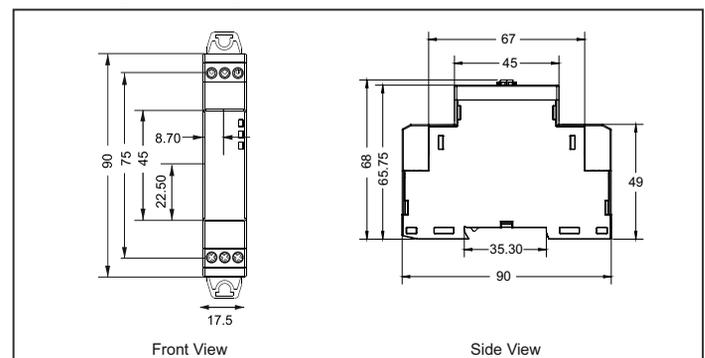
Environmental specifications

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

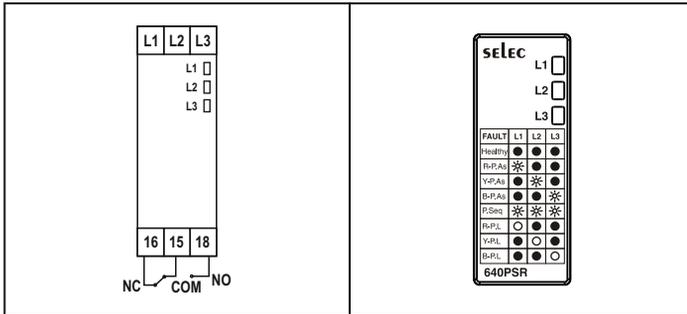
Mechanical specifications

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

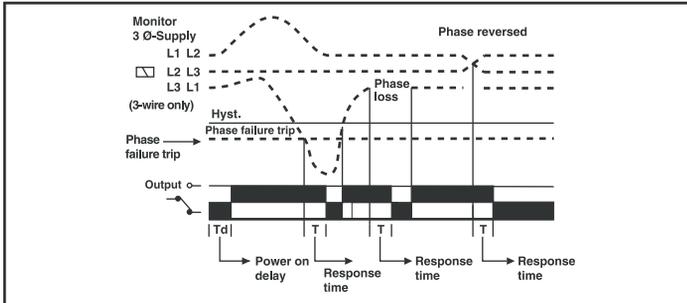
Dimensions (All are in mm)



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