900CPR-3-1-BL

Current Protection Relay



DIN 35mm

Features :

- 1Ø - 2 Wire, 3Ø - 3 Wire, 3Ø - 4 Wire Input
- Monitors Under Current, Over Current & Current Asymmetry
- True RMS Measurement
- Power ON Delay, Trip Time Delay and Recovery Time Delay
- Adjustable Switching Hysteresis
- One Alarm Relay with NC or NO Operation Selectable
- DIN Rail Mount

Certification : CE

Display Specifications

Type	Digital
Display	Liquid Crystal Display
No. of LED	1
No. of Push Button	3

LED Indication

LED1 (Red)	Relay (Continuously ON after trip)

Input Specifications

Functions	
Measurements	Under current, Over current and Current asymmetry
Time Settings	Power ON delay, Trip time delay, Recovery time delay
Alarm Indications	Trip
Latching	Selectable
Reset	Auto / Manual
Electrical Connection	1Ø - 2 wire, 3Ø - 3 wire, 3Ø - 4 wire
CT Settings	
CT Primary	1A / 5A - 999A (Selectable)
CT Secondary	1A / 5A (Selectable)
Current Rating	
Measuring Range (RMS Value)	0 - 1.19kA
Trip Settings	
Under Current	0 - 999A (0 - 100% of CT Primary Setting)
Over Current	0.5A - 1.19kA (10 - 120% of CT Primary Setting)
Current Asymmetry	5.0 - 99.9%
Trip Time Settings	
Power ON Delay	0.5 - 99.9sec
Trip Time Delay	0 - 99.9sec
Recovery Time Delay	0 - 99.9sec (In Auto Reset Mode)
Response Time	<200ms
Hysteresis	
Current	0.1 - 99.9A
Resolution	
Current	0.01, 0.1, 1A, 0.01kA (Depends on CT Setting)
Accuracy	
Current	±1% of Setting ±2 digits
Time Setting Accuracy	±5% of Setting ± 200ms

Output Specifications

No. of Relay	1
Relay Contact	1 C/O (SPDT)
Relay Rating	NO /5A @250V AC NC /3A @250V AC

Auxiliary Supply Specifications

Supply Voltage	230V AC, ±15%
Frequency	50 / 60Hz
Power Consumption	15VA max

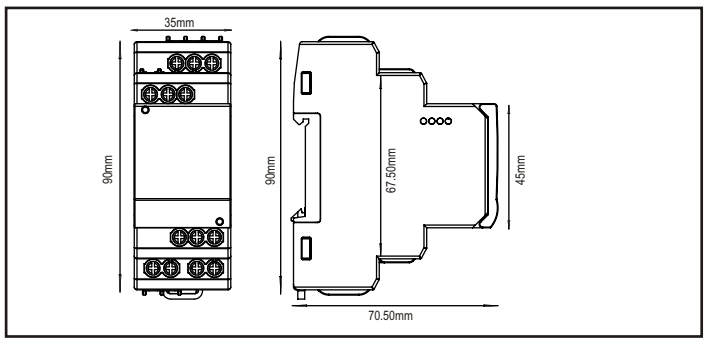
Environmental Specifications

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

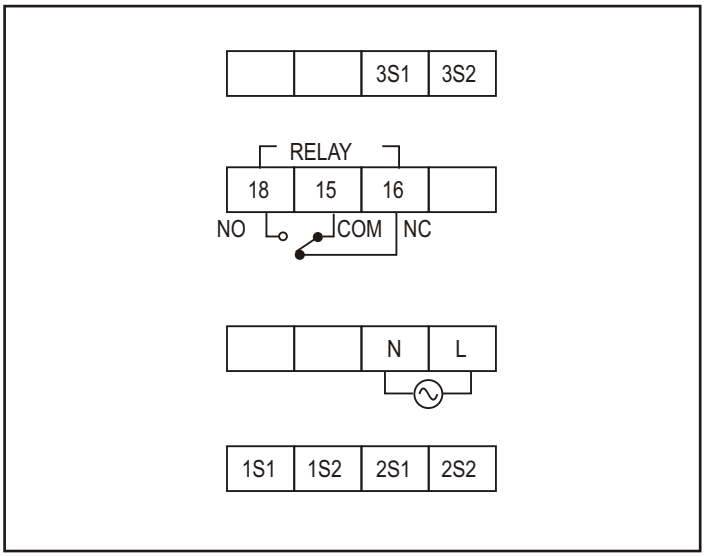
Mechanical Specifications

Mounting	DIN Rail
Weight	150gms
Screw Tightening Torque	0.5 NM

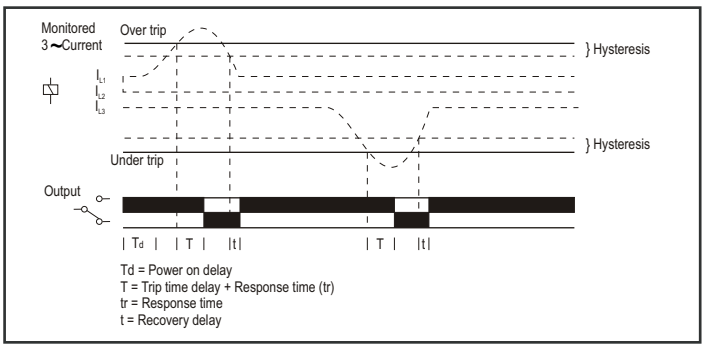
Dimensions



Terminal Connections



Timing Diagram



Compliance

Applicable EMI / EMC Standards		
Product Standard : IEC 60947-2		
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 Emission	CISPR-11	Class-A
Emission & Immunity	IEC 61326-1	
Safety	IEC 61010-1	

Ordering Information

Product Code	Supply Voltage	Certification
900CPR-3-1-BL-230V-CE	230V AC	CE
900CPR-3-1-110V-CE	110V AC	CE