Curent Protection Relay

900CPR-3-1-BL-230V-CE



Features :

- 1Ø - 2 wire, 3Ø - 3 wire, 3Ø - 4 wire
- Monitors under current & Over current
- True RMS Measurement
- Power ON delay, Trip time delay and Recovery time delay
- Adjustable switching hysteresis
- Two alarm relay with NC or NO operation selectable
- DIN Rail mount

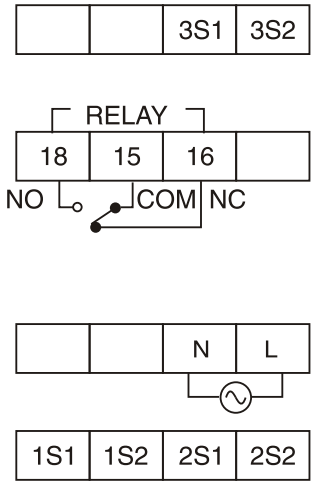
Certifications : CE

Technical specifications

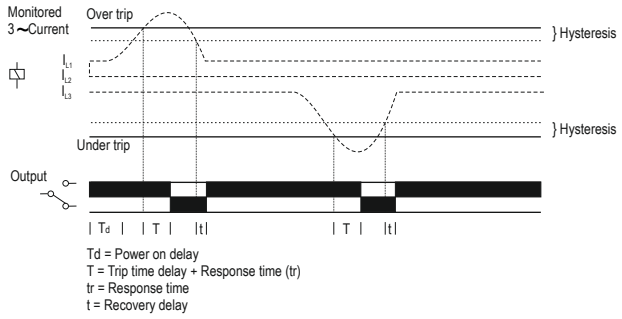
Display specifications	
Type	Digital
Display	Liquid crystal display with backlight
No. of LED	1
No. of push button	3
LED Indication	
LED1 (Red)	Relay (Continuously ON after trip)
Input specifications	
Functions	
Measurements	Under current and over current
Time settings	Power ON delay, Trip time delay, Recovery time delay
Alarm indications	Trip
Latching	Selectable
Reset	Auto / Manual (Selectable)
Electrical connection	1Ø - 2 wire, 3Ø - 3 wire, 3Ø - 4 wire
CT Settings	
CT Primary	1A / 5A - 999A (Selectable)
CT Secondary	1A / 5A (Selectable)
VA Burden	<0.5VA
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 of CT setting)

Accuracy	
Current	±1% of Setting ±2 digits
Time setting	Accuracy ±5% of setting ± 200ms
Output specifications	
No. of relays	1
Type of output	1C/O (SPDT)
Relay rating	NO / 5A, 250V AC, NC / 3A, 250V AC
Auxiliary supply specifications	
Supply voltage	230V AC ±15%
Frequency	50 - 60Hz
VA Rating	15VA max
Environmental specifications	
Temperature	Operating: 0 °C to +50 °C Storage: -20 °C to +70 °C
Humidity (Non - condensing)	Upto 95% RH
Pollution degree	For PCB 2, For product 3
Degree of protection	Device IP20
Mechanical specifications	
Mounting	DIN Rail
Weight	150 gm
Screw tightening torque	0.5 NM

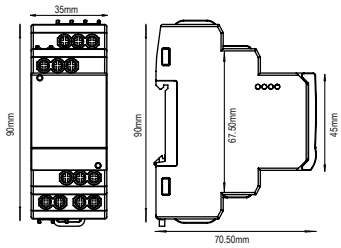
Terminal connections



Timing diagram



Dimensions (All are in mm)



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 61000-4-6	Level-3
Conducted RF	IEC 61000-4-8	Level-2
Conducted emissions	IEC 61000-4-11	Level-4
Voltage dip / Short interruptions	IEC 61000-4-5	Level-3
Rated power frequency	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