Earth Leakage Relays



Features:

- ▶ 1Ø 2 Wire, 3Ø 3 Wire & 3Ø 4 Wire Input
- Leakage current monitoring
- True RMS Measurement
- ▶ CBCT Connection monitoring
- Power ON Delay, Trip Time Delay and Recovery time delay
- Adjustable switching hysteresis
- Two separate alarm relays with NO or NC Operation selectable
- Test and Reset Function via Front / Remote
- DIN Rail Mount

Certifications : C € CUL US

Technical specifications

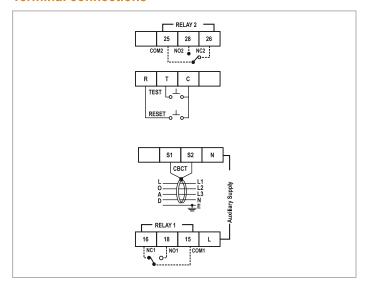
Display specifications				
Туре	Digital			
Display	Liquid crystal display with backlight			
No. of LED	2			
No. of push button	3			
LED Indication chart				
Condition	'R1' LED	'R2' LED		
Nominal Condition	OFF	OFF		
Fault (If programmed for Relay1)	ON	ON		
Pre-Alarm	OFF	ON		
Fault (If programmed for both Relay)	ON	ON		
CBCT Error	Blinking	Blinking		
Input specifications				
Functions				
Measurements	Earth Leakage Current Monitoring (via external CBCT)			
Time Settings	Power ON delay, Trip time delay, Recovery timer delay			
Alarm Indications	Pre - warning alarm, Trip, CBCT error			
Latching	Selectable			
Reset	Auto / Manual (Selectable)			
Electrical connection	1Ø - 2 wire, 3Ø - 3 wire, 3Ø - 4 wire			
Trip settings				
Leakage current	30mA - 30A	30mA - 30A		
Pre alarm	50 - 100% of Leakage Current Setting	50 - 100% of Leakage Current Setting		
Display current range	15mA - 30A			
Trip time settings				
Power ON Delay	0.5 - 99.9sec	0.5 - 99.9sec		
Trip time delay	0 - 99.9sec			
Recovery time delay	0 - 99.9sec			
Response time	< 30ms (If trip current 5 x set value) < 50ms (If trip current 1 x set value)			
Hysteresis				
Hysteresis	5 to 40%			
Resolution				
Current	0.1mA, 1mA, 0.01A, 0.1A (Depends on trip Setting)			

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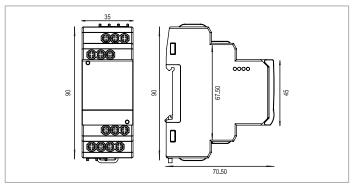
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Accuracy	
Current	±5% of Setting
Time (Recovery time delay, Trip time delay, Power ON Delay)	±5% of Setting ±100ms
Output Specifications	
No. of relays	2
Type of output (Relay1)	1 C/O (SPDT)
Type of output (Relay2	1 C/O (SPDT)
Relay rating	NO5A250V AC NC3A250V AC
Auxiliary Supply Specifications	
Supply Voltage	110V AC
Frequency	50 - 60Hz
Power Consumption	3VA max
Environmental Specifications	
Temperature	Operating Temperature : 0° to +50° Storage Temperature : -20° to +70°
Humidity (non-condensing)	210 gms
Pollution Degree	
For PCB	2
For Product	3
Degree of Protection Devices	IP20
Mechanical Specifications	
Mounting	DIN Rail
Weight	217gms
Screw Tightening Torque	0.5 NM

Terminal connections



Dimensions (All are in mm)



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Compliance

Applicable EMI / EMC Standards				
Product Standard : IEC 60947-2				
Category	Reference Standards	Testing Level		
Conducted Emissions	IEC 61000-6-3	Class-A		
Conducted RF Immunity	IEC 61000-4-6	Class-A		
Electrical Fast Transient	IEC 61000-4-4	Class-B		
Electrostatic Discharge	IEC 61000-4-2	Class-B		
Radiated Emission	CISPR-22	Class-A		
Radiated Susceptibility	IEC 61000-4-3	Class-A		
Surge	IEC 61000-4-5	Class-B		
High Voltage Test	IEC 61010-1	Clause 6.8		
Resistance To Heat Test	IEC 61010-1	Clause 10.5		
Single Fault Test	IEC 61010-1	Clause 4.4		
Temperature Rise Test	IEC 61010-1	Clause 10		

Ordering information

Product code	Supply voltage	Certification
900ELR-2-110V-CE	110V AC	C€

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