



## Features :

- Monitors true RMS earth leakage current (Upto 500mA) in 1Ø - 2Wire, 3Ø - 3Wire & 3Ø - 4Wire
- Leakage current (In) & Time delay ( ΔT) adjustable
- LED indication for power ON and Relay status
- Test and reset function via key
- CBCT open or short circuit detection
- One SPDT relay output

## Technical Specifications

### Display specifications

Type	Analog
No. of LED	2
No. of knob	2
LED trip indication	Power ON and relay status

### LED indication chart

Power on	Green LED ON
Tripped indication	Red LED ON
CBCT absent	Red LED blinking

### Input specifications

Monitored leakage current (In)	30mA, 100mA, 300mA, 500mA
Trip level limits	75% of In
Trip time delay	0, 2, 4, 6, 8, 10 sec (NA for 30mA range)
Reset time	Instantaneous (<400ms)
Response time	Variable time settings (0, 2, 4, 6, 8, 10 sec) for 100mA, 300mA & 500mA current setting (For 1xIn) & <30ms for 5xIn. For 0 sec trip setting for 100mA,300mA & 500mA trip time will be less than <150ms
	For 30mA : - <30ms (For 5xIn) <150ms (For 1xIn)
Accuracy	Current : 5% of In Time : 5% of Set time
Test / Reset function	Provided through Key
CBCT absent detection time	< 5 sec

### Output specifications

Output contacts	1 SPDT relay
Output rating	NO : 5A @ 250VAC NC: 3A @ 250VAC 5A @ 24V DC
Relay status	Healthy :- COM-NO Trip :- COM-NC

### Auxiliary supply specifications

Auxiliary supply	230VAC ± 15%
Power consumption	15VA Max
Hysteresis	8% of In
Frequency	50/60Hz
Rated impulse withstand voltage	4kV

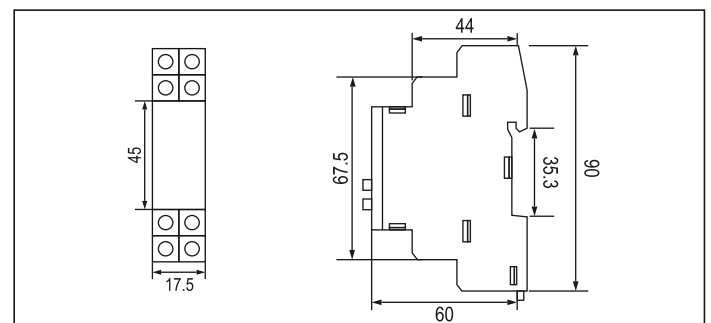
### Environmental specifications

Degree of protection	IP50 for front plate IP40 for housing IP20 for terminals
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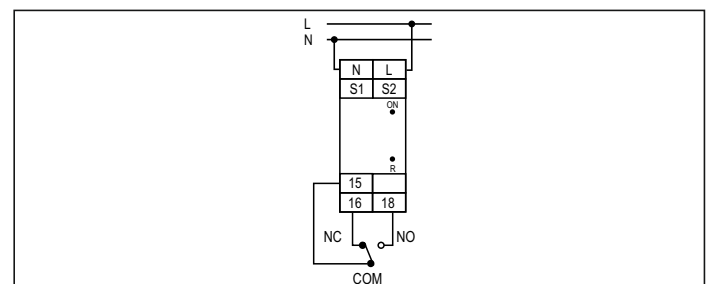
### Mechanical specifications

Mounting	DIN rail mount
Size	17.5mm
Torque	0,2...0,3N.m 1,7...2,6lbf.in

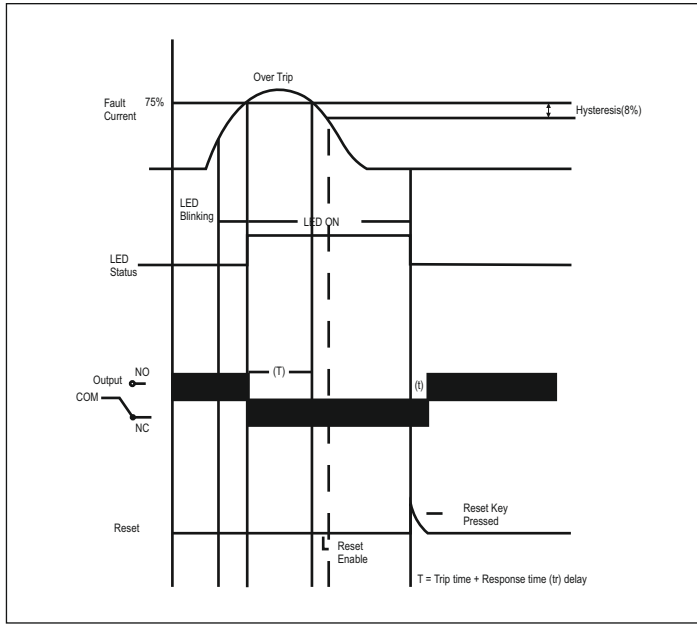
### Dimensions (All are in mm)



### Terminal connection



Timing diagram



Ordering information

Product code	Supply voltage	Certification
600ELR-1-30/500mA-230V	230VAC ± 15%	---

Accessories

Product Code	Inner diameter	Turns ratio
CBCT-35-1	35mm	1000:1
CBCT-70-1	70mm	1000:1
CBCT-120-1	120mm	1000:1
CBCT-210-1	210mm	1000:1
CBCT-310-1	310mm	1000:1

Compliance

Applicable EMI / EMC Standards		
Product Standard : IEC 60947-2		
Category	Reference Standards	Testing Level
Conducted Emissions	CISPR-11	Class-A
Conducted Susceptibility	IEC 61000-4-6	Class-A
Electrical Fast Transient	IEC 61000-4-4	Class-A
Electrostatic Discharge	IEC 61000-4-2	Class-A
Radiated Emission	IEC 61000-4-20	Class-A
Radiated Susceptibility	IEC 61000-4-3	Class-A
Surge	IEC 61000-4-5	Class-B
AC Voltage Test	IEC 61010-1	Clause 6.7
Resistance To Heat Test	IEC 61010-1	Clause 10.5
Single Fault Test	IEC 61010-1	Clause 4.4 and 10
Temperature Rise Test	IEC 61010-1	Clause 10.1 - 10.4