



Features :

- Monitors true RMS earth leakage current (Upto 500mA) in 1Ø - 2Wire, 3Ø - 3Wire & 3Ø - 4Wire
- Leakage current (I_n) & 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 (I_n)	30mA, 100mA, 300mA, 500mA
Trip level limits	75% of I_n
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 1x1n) & <30ms for 5x1n. For 0 sec trip setting for 100mA, 300mA & 500mA trip time will be less than <150ms
	For 30mA : - <30ms (For 5x1n) <150ms (For 1x1n)
Accuracy	Current : 5% of I_n 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 \pm 15%
Power consumption	15VA Max
Hysteresis	8% of I_n
Frequency	50/60Hz
Rated impulse withstand voltage	4kV

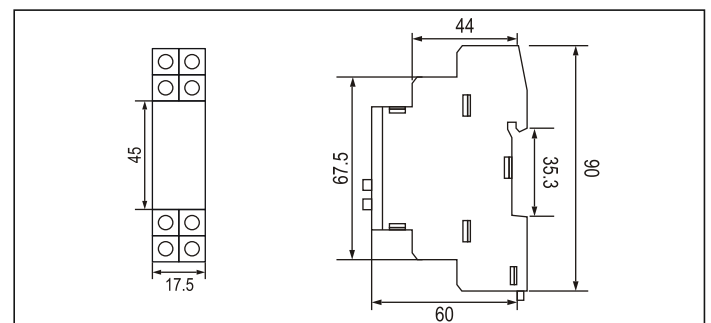
Environmental specifications

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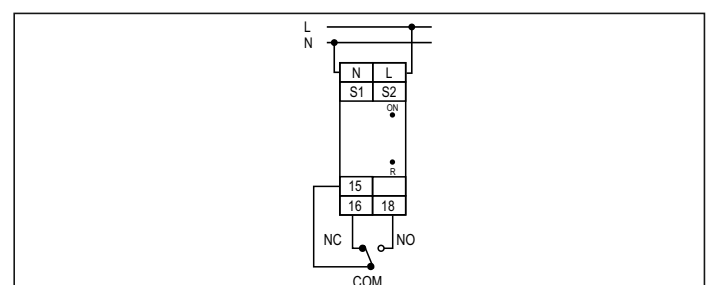
Mechanical specifications

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

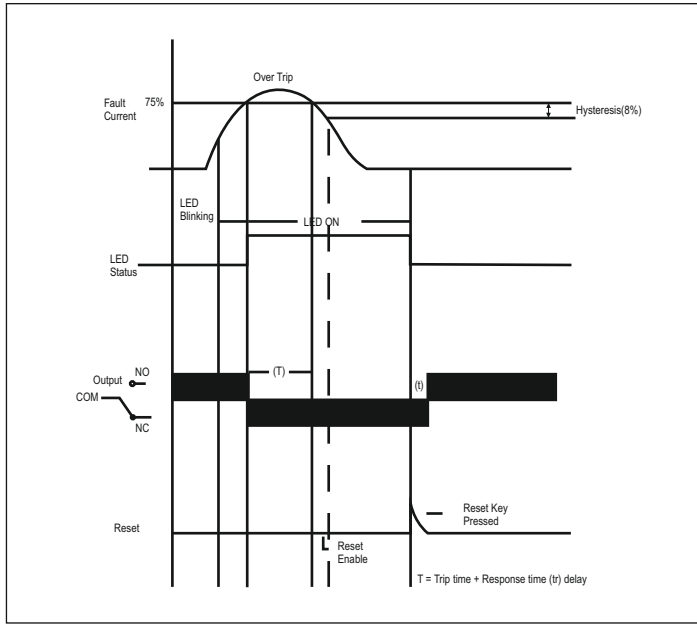
Dimensions (All are in mm)



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