



Features:

- Monitors true RMS earth leakage currents (upto 30A) in 1Ø 2 wire, 3Ø 3 wire & 3Ø 4 wire systems
- Sensitivity (ΔI) & Time delay (Δt) adjustable
- LED indication for measured leakage current and various user settings
- Test and Reset function
- CBCT open circuit indication

Size: 35mm DIN Rail

Technical Specifications

Input Specifications

Accuracy	Trip : $\pm 5\%$ of Set Trip Current Time : $\pm 5\%$ of set Time + Response Time
Test/Reset Facility	1. Front panel 2. Remote (through terminal contact) 3. Reset on power interruption
Reset Enable Level	Below 85% of tripped level and in presence of CBCT.

Output Specifications

Sensitivity	30mA, 100mA, 300mA, 500mA and 1A, 3A, 5A, 10A, 20A, 30A
Monitored Leakage Current	30mA to 30A with CT ratio 1000:1
Trip Level Limits	95% to 105% of set value All LEDs glow after leakage exceeds.
Time Delay	0, 1, 2, 3, 4, 5, 6, 7, 8, 9sec.
Reset Time	~1 sec.
CBCT Detection	Every 3sec. When leakage current < 5mA
Response Time	< 30ms (if trip current $\geq 5 X$ set value) < 50ms (if trip current = 1X set value)
Memory	Storage of the leakage fault (fault clear by pressing 'Reset' or on power interruption)

Supply Voltage

Supply Voltage	230V AC ($\pm 15\%$), 50/60Hz
Power Consumption	<5VA max.

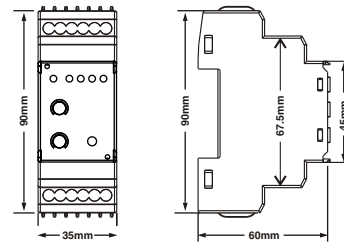
Environmental Specifications

Temperature	Operating: 0 to 50°C Storage: 0 to 75°C
Humidity (non-condensing)	Upto 95% RH
Weight	157 gms.

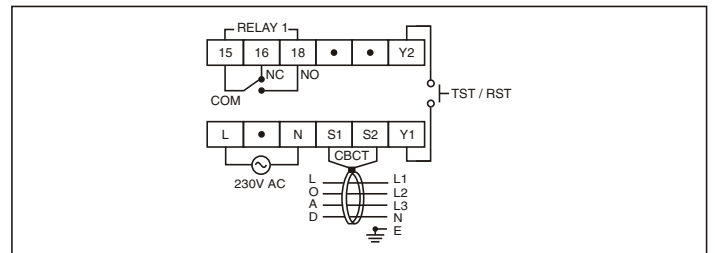
Mechanical Specifications

Mounting	Din Rail Mounting (size 35mm)
Housing	2M

Dimensions



Terminal Connections



LED Indication Chart

Conditions	Yellow	G1	G2	G3	RED
Power ON	ON	OFF	OFF	OFF	OFF
Tripped Indication	ON	ON	ON	ON	ON
CBCT Error / Absent / CBCT Short	ON	Blink	Blink	Blink	Blink
25% Leakage Current	ON	ON	OFF	OFF	OFF
50% Leakage Current	ON	ON	ON	OFF	OFF
75% Leakage Current	ON	ON	ON	ON	OFF

Standards

EMI/EMC	
Radiated Susceptibility	IEC 61000-4-3 ed.3.0 (2006-02) level 3
ESD	IEC61000-4-2, level 3 (8kV air, 6kV contact)
Electrical Fast Transients	IEC61000-4-4, level 3 (4kV)
Surge	IEC61000-4-5, level 3 (4kV)
Conducted Susceptibility	IEC61000-4-6, ed.2.2 (2006-05) Level 3
Conducted Emission	CISPR11, ed.5.1 class A
Radiated Emission	CISPR11, ed.5.2 class A
Safety	IEC61010-1 (2010)
Breakdown Voltage	IEC61010-1 (2.2kV)
Environmental	
Cold Heat	IEC60068-2-1, ed.6.0 (2007-03)
Dry Heat	IEC60068-2-2, ed.5.0 (2007-07)
Vibration	IEC60068-2-6, ed.7.0 (2007-12), 5g
Repetitive Shock	IEC60068-2-27, ed.4.0 (2008-02), 40g, 6ms
Non-Repetitive Shock	IEC60068-2-27, ed.4.0 (2008-02), 30g, 15ms
Product Standard	
	1. IEC 60947-2
	2. IEC 60255-1
	3. IEC 60755

Ordering Information

Part No.	Supply Voltage
ELRA2M2-1-230V	230V AC (±15%)

Accessories

CBCT-35-1	35mm Inner Diameter
CBCT-70-1	70mm Inner Diameter
CBCT-120-1	120mm Inner Diameter

Please refer Catalogue