ELCTR

Earth Leakage Relay



Features :

- **Monitors True RMS Earth Leakage Current in 1Ø - 2 Wire, 3Ø - 3 Wire & 3Ø - 4 Wire**
- **Earth Leakage Relay with Inbuilt CBCT for 30mA or 300mA**
- **LED Indication for Power ON & Trip Condition**
- **Test and Reset Function**
- **1 SPDT Output Protection Relay**

Certification : CE

Display Specifications

No. of LED	2
No. of Push Button	2

LED Indication Chart

Condition	'ON' LED	'R' LED
Nominal Condition	ON	OFF
50% Leakage Current IΔn	ON	Blink
75% Leakage Current IΔn	ON	ON

Input Specifications

Measuring Input	30mA or 300mA
Test / Reset Facility	1. Front key 2. Reset on power interruption

Output Specifications

Monitored Leakage Current	300mA or 30mA
Trip Level Limits	75% of IΔn
Blinking Level	Alarm level (LED Blinking)
Reset Time	Instantaneous
Output	SPDT relay
Contact Rating	5A@250V AC 5A@30V DC
Memory	Storage of leakage fault & reset with reset push button
Accuracy	Current : ±5% of IΔn Time : ±5% of Response Time
Hystersis	8% of IΔn
Response Time	<30ms (For 5x IΔn) <50ms (For 1x IΔn)

Auxiliary Supply Specifications

Supply Voltage	230V ±15%
Frequency	50 / 60Hz
Power Consumption	15VA max

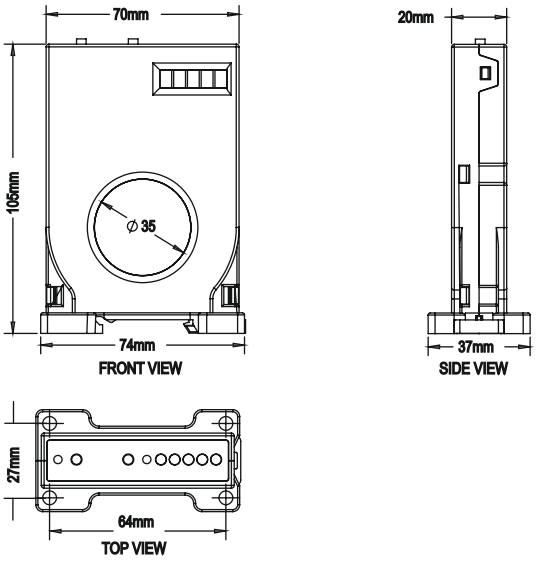
Environmental Specifications

Temperature	Operating : 0^0 to 55^0C Storage : -20^0 to 70^0C
Humidity (non - condensing)	Upto 95% RH
Weight	190gms

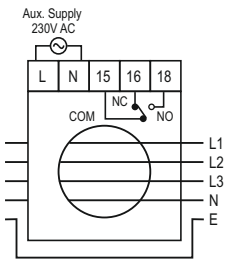
Mechanical Specifications

Mounting	DIN Rail
Weight	190gms
Screw Tightening Torque	0.5 NM

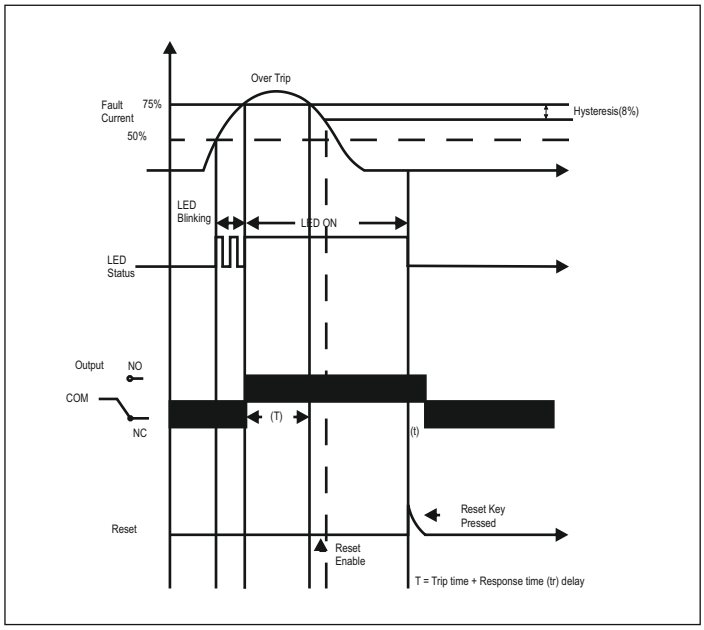
Dimensions



Terminal Connection



Timing Diagram



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

Ordering Information

Product Code	Supply Voltage	Certification
ELCTR35-1-300mA-230V-CE	230V AC (±15%)	CE
ELCTR35-1-30mA-230V-CE	230V AC (±15%)	CE
ELCTR35-1-30mA-230V	230V AC (±15%)	---
ELCTR35-1-300mA-230V	230V AC (±15%)	---