

Integral Earth Leakage Relay

- Monitors, True RMS Earth Leakage Current.
- Integral toroid-35mm \varnothing
- Earth Leakage Relay with Inbuilt CBCT of three variant available:30mA, 100mA, 300mA
- “Test” and “Reset” push buttons.
- SPDT Output Relay with Energized to trip.
- Protected against the nuisance tripping.
- Green LED indicates presence of power supply.
- Red LED flashing indicates when fault current is >50% of Δn & fault current is >75% LED ON as relay has tripped.
- Base or DIN rail Mounting.
- Easy to install and compact size.



Ordering Information

Cat. No.	Description
ELR3A2030	Integral Earth Leakage Relay, 35mm CBCT, 240VAC($\pm 15\%$), 50/60Hz, 30mA
ELR3A2100	Integral Earth Leakage Relay, 35mm CBCT, 240VAC($\pm 15\%$), 50/60Hz, 100mA
ELR3A2300	Integral Earth Leakage Relay, 35mm CBCT, 240VAC($\pm 15\%$), 50/60Hz, 300mA

Integral Earth Leakage Relay



Cat. No.	ELR3A2030	ELR3A2100	ELR3A2300
Parameters			
Supply Voltage (ϕ)	240 V AC, 50/60Hz		
Supply Variation	-15% to +15%		
Frequency	50/60Hz		
Power Consumption (Max.)	8 VA		
Leakage Current Range ($I_{\Delta n}$)	30 mA	100 mA	300 mA
Trip Recovery	<50% of $I_{\Delta n}$ (nominal)		
Trip Level	75% of $I_{\Delta n}$ (nominal)		
Type Class	'A' True RMS measurement (As per IEC 60947/ 60755) 'AC' True RMS measurement 30mA, 100mA, 300mA (As per IEC 6094/ 760755)		
Max. Crest Factor	5		
Memory	Storage of the leakage fault and reset with "Reset" push button		
Hysteresis	8% of $I_{\Delta n}$ (nominal)		
Reset Time	>200ms		
Reset Enable	Below 50% of rated current		
Trip Time (Δt in sec)	0 - 0.06 - 0.15 - 0.25 - 0.5 - 0.8 - 1 - 2.5 - 5 - 10		
Test / Reset	Manual Reset		
Accuracy	$\pm 10\%$		
Output	Contact Arrangement	1 C/O	
	Contact Rating	5A (No) and 3A (NC)Resistive load @ 250 VAC / 30 VDC	
	Electrical Life	1×10^5	
	Mechanical Life	5×10^6	
Utilization Category	AC - 15	3.0 A at 120 V & 1.5 A at 240A	
	DC - 13	0.22 A at 125 V & 0.10 A at 250A	
LED Indication	Green	ON : Power On	
	Red	Blinking : Leakage current is greater than 50% of rated value.	
		ON : Leakage current is greater than 75% of rated value.	
Storage Temperature	- 20° C to +60° C		
Operating Temperature	- 5° C to +55° C		
Humidity (Non Condensing)	95% Rh(without condensation)		
Enclosure	Flame Retardant UL94-V0		
Dimension (W x H x D) (in mm)	110 X 74 X 37		
Weight (unpacked) Approx.	120 g		
Mounting	Base / DIN rail		
Certification			
Degree of Protection	IP 20		

EMI / EMC

Harmonic Current Emissions	IEC 61000-3-2
Voltage Flicker and Emissions	IEC 61000-3-2
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients	IEC 61000-4-4
Surges	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Voltage Dips & Interruptions (AC)	IEC 61000-4-11
Conducted Emission	CISPR 11
Radiated Emission	CISPR 11

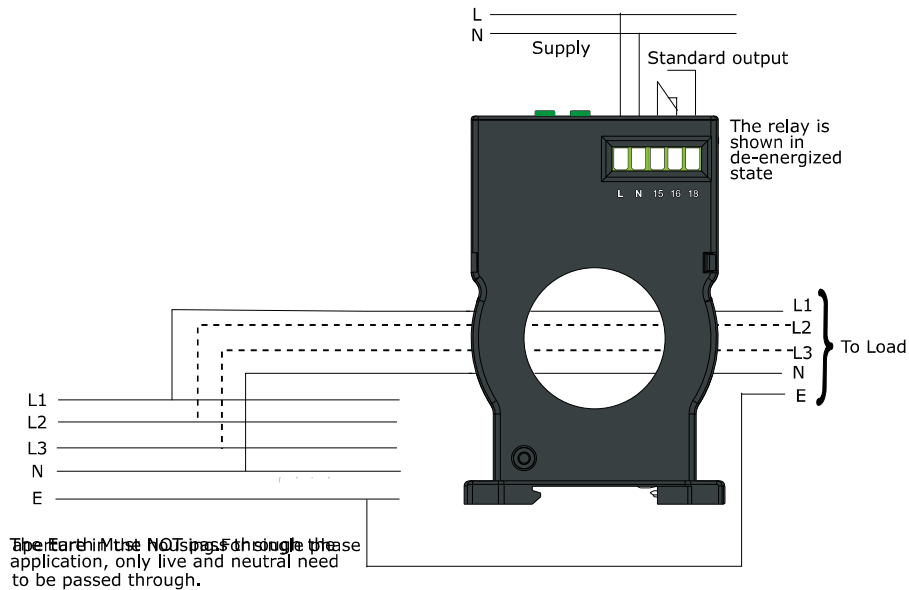
Environmental

Cold Heat	IEC 60068-2-1
Dry Heat	IEC 60068-2-2
Vibration	IEC 60068-2-6

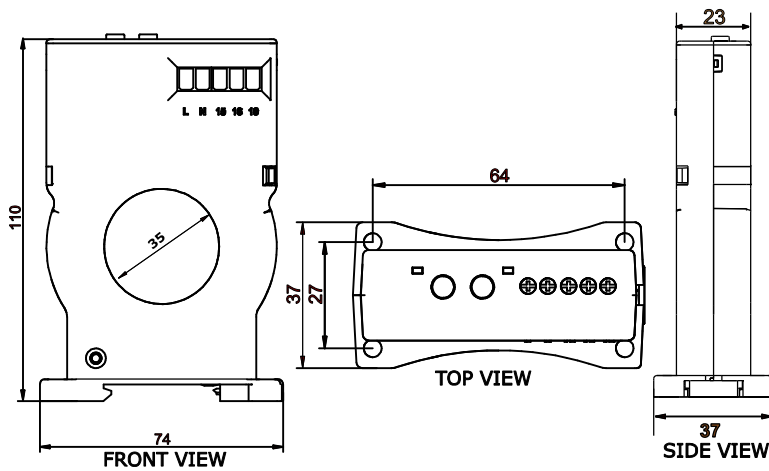
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CONNECTION DIAGRAM



MOUNTING DIMENSIONS



TERMINAL TORQUE & CAPACITY

 Ø3.5 mm	0.40 N.m (3.5 Lb.in) Terminal screw - M2.6
	1 x 2.5mm ² Solid Wire
AWG	1 x 22 to 12