

EARTH LEAKAGE RELAY

Earth leakage current | Trip time

DETECT THE LEAKAGE CURRENT IN AN INTELLIGENT ELECTRICAL DEVICE!



Features :

- True RMS measurement.
- Clearance and creepage distance meets UL 61010 safety standard.
- Inverse curve - trip time is inversely proportional to fault current. This ELR is Intelligent, when the leakage current is 10 times higher than the set current, it trips 10 times faster.
- Field programmable trip current and trip time through front panel keys with password protection.
- Continuous leakage current display (Programmable) - Leakage current continuously displayed to enhance the user to understand the quality of Electrical network / Machine online. This can be disabled through setup if required.
- Continuous display of trip leakage current (Programmable) - In case of tripping, iELR captures and displays the tripped current with 4 Digits resolution, which helps the user to analyze and correct the problem. This can be disabled through setup if required.
- Continuous scrolling display for set current and set time.
- Manual test and reset keys.
- RS485 communication option.
- Auto Configuration through communication.
- Reset through communication in trip condition

Applications:

- Protects control panels and switch boards from flame leakage.
- Protects motors / transformers / feeders / generators etc., from earth leakage.
- Hazardous and sensitive industries like oil refineries / pulp industries / electrical distribution etc., can be protected.
- Complete protection for control engineering and mining industry.

Core Balance Current Transformer - CBCT

CBCT Specification	
Input Range : 30mA to 3A Default (300mA to 8A, 30mA to 30A Optional)	
Round Diameter: (Tape Wound) Inner Diameter 45mm, 60mm, 100mm, 150mm, 200mm, 250mm, 300mm	
Round Diameter: (Case mounted) Inner Diameter 38mm, 57mm, 92mm, 120mm, 210mm	<p>Plastic Epoxy</p>
Rectangular: (Tape Wound) 150×50mm, 250×100mm, 300×100mm, 350×100mm, 400×125mm, 400×200mm, 500×225mm, 500×200mm. (Any other sizes subject to availability)	

Advantages

- Microcontroller based design provides higher technological advantage
- Peak detection and value display helps in analysis and corrective action.
- Password protection for security against mishandling.
- Current sensitivity wider range 30mA - 30A and no limitations on set current.
- Programmable trip time 30ms - 30s with wider choice to suit different industry.
- Selection through soft keys (No DIP switches) provides better IP protection and longer life.
- Continuous earth leakage value display helps online loss analysis (Programmable).
- Intelligent tripping based on $T \propto 1/A$ gives faster and reliable protection.
- Auto scrolling of trip information and peak fault current provides better analysis.

Technical Specification:

	iELR 200D	iELR 300	iELR 400D
Input current:	30mA to 3A Default (300mA to 8A, 30mA to 30A Optional)		
Input Voltage:	NA	NA	50 - 550V LL
Trip Current:	Programmable		
Tripping time:	100 mS - 30 Sec		
Contact Rating:	2Amps @ 240V AC / 24V DC		
Accuracy:	Class 2.0FS		
Auxiliary supply:	80 - 300V AC/DC, 4VA Max		
CBCT:	Round , Rectangular		
Core Balance:	CT type : Tape wound limited round size option for epoxy coated and plastic version.		
Display:	4 Digit		
Mounting Type:	DIN rail	Panel Mount	DIN rail
Mechanical specification:	2 DIN: 90×36×67 mm	Panel Mount: 96×96×30 mm Cutout: 90 ^{±2} x 90 ^{±2} mm	4DIN: 90×72×67mm
Communication RS485 interface: (Optional)	Parity: <i>Odd, Even, None (Preferred Even)</i> Baud rate: 4800 bps to 38400 bps. (Preferred 9600 bps). Isolation: 2000 volts AC isolation for 1 minute between communication and other circuits.		
Torque	1 N-m		
Wire gauge	11 AWG		

Trip Characteristics:

