

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.
- 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 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



Rectangular: (Tape Wound)
250×100mm, 300×100mm, 350×100mm, 350×150mm, 400×200mm, 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 - 3A and 300mA to 30A 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
Display:	4 Digit	4 Digit
Mounting Type:	DIN rail	Panel Mount
Mechanical specification:	2 DIN: 90×36×67 mm	Panel Mount: 96×96×30 mm Cutout: 90 ² x 90 ² mm
Input Voltage:	NA	NA
Input current:	30mA to 3A or 300mA to 30A	
Trip Current:	Programmable	
Tripping time:	100 ms - 30 Sec	
Contact Rating:	2Amps @ 240V AC / 24V DC	
Accuracy:	Class 5.0FS(Default), Optional Class 2.0FS	
Auxiliary supply:	80 - 300V AC/DC, 4VA Max (415V AC optional)	
CBCT:	Round , Rectangular	
Core Balance:	CT type : Tape wound limited round size option for epoxy coated and plastic version.	
Communication RS485 interface: (Optional)	<i>Parity: Odd, Even, None (Preferred Even)</i> <i>Baud rate: 4800 bps to 38400 bps. (Preferred 9600 bps).</i> <i>Isolation: 2000 volts AC isolation for 1 minute between communication and other circuits.</i>	
Torque	1 N-m	
Wire gauge	11 AWG	

Trip Characteristics:

