

NAVAGO Electronics & Electricals



Earth Leakage Relay (ELR)

Navago makes Earth Leakage Relays (ELR) with Core Balance Current Transformer (CBCT) are used to detect the leakage current in an Electrical Power System. ELR transmits a signal to activate the trip coil of the MCCB / ACB / OCB / CONTACTOR in the event of earth leakage, resulting in automatic isolation of the electrical power system. ELR have been widely used and accepted because these have field adaptability and are economic.

The Earth Leakage Relay (ELR) operates on the core balance principle wherein the currents in the three phase of the system are summed by a Core Balance Current Transformer (CBCT) which in normal conditions equates to zero. In case of a leakage current due to insulation failure or line to ground fault this balance is disturbed causing the electronic circuit to operate a relay within the unit. In this event the relay that is generally connected to circuit breaker operates thus tripping the main circuit. The electro mechanical relay operates on fault. The ELR is provided with a TEST push button for checking its operation and a RESET button to reset the relay on operation. This helps in checking the proper functioning of the relay. External (remote) TEST and RESET connections can also be incorporated.

Under healthy conditions 'OK' LED will glow.
In case of Fault/Leakage after set time delay the relay will Trip and 'TRIP' LED will glow.

Mounting

The relay can be supplied in 96 sqmm (Panel door mounting) or DIN rail cum base mounting. The relay can be supplied with either DIP Switch or Potentiometer for Leakage and Time delay setting.

Specifications

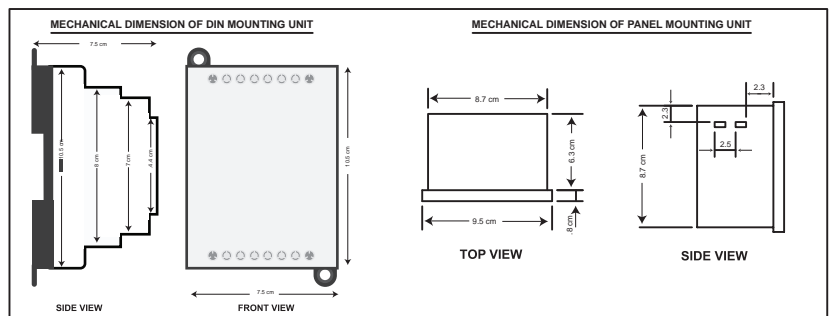
Leakage Current Setting: From 50mA upwards as desired.

Core balance C.T.: Toroidal core, bar primary (Tape wound or resin Cast, round or rectangular)

Auxiliary supply: 110,220,415,550 V Ac, 50 Hz, 1 Phase or as desired

Built-in relay contact: 5 amps

Number of contacts: 1or 2 set of 1N/o and 1N/c



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