

NAVAGO

Electronics & Electricals



EARTH LEAKAGE RELAY TYPE ELRMSMB

PRINCIPLE OF OPERATION

This relay operates on the core balance principle wherein the currents in the three phase of the system are summed by a core balance C.T. which for normal conditions equates to zero. In case of a leakage current to earth 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 Earth Leakage Relay 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 is also be incorporated. Under healthy conditions 'OK' LED will glow. In case of Fault/Leakage Fault LED will glow and after set time delay the relay will Trip and 'TRIP' LED will glow along with Fault LED. On rectification of Fault the Fault LED will switch OFF but TRIP Led will glow unless and until RESET button is pressed.

MOUNTING

Base Mounting (Sturdy Powder Coated Metal box)

DIMENSION

120mm X 160mm X 60mm. (metal box)

VOLTAGE

Dual Voltage 110/230V or 415/550V or as per customer specification

RANGE

0.5A to 4.0A or 80 mA to 750 mA or 750 mA to 2 A

ID of CBCT

75mm or 100 mm without Test winding

THIS RELAY IS DEVELOPED EXCLUSIVELY FOR MINES WITH VALUABLE FEEDBACK FROM EXPERTS FROM THE MINING INDUSTRY

- 1). Option of External TEST and REST.
- 2). Additional External LED's for Trip and OK will be provided.
- 3). Transformer will be coated with additional layer of resin for protection from moisture.
- 4). Real time monitoring of CBCT wherein the relay will trip on disconnection of CBCT.
- 5). Latching type model where the relay will Reset only on pressing of RESET button (on rectification of Fault).
- 6). LED's for OK, Fault, CBCT Open and Trip provided in the relay.

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