

PROTIME[®]



EFR-1 Series Relay

ELR-1

Special Features

- Relays with Auto/Manual Reset, & test facility.
- Wireless interiors makes it highly rugged & error proof.
- Possible to use with DC aux. supply for protection systems.
- High accuracy standards calibrated with +/-5% Accuracy.
- Wide range available.

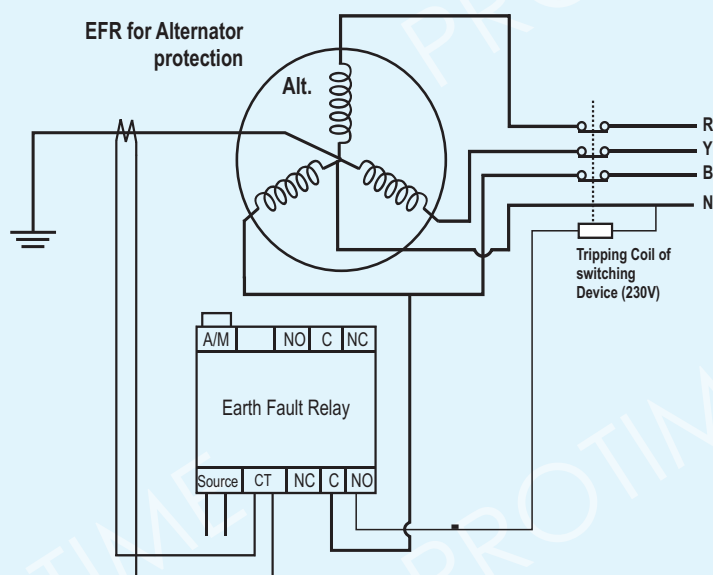
Technical Data

- | | |
|-------------------------------|--|
| 1) supply Voltage | - AC-110V,230V,380V,415V
DC-12V,24V |
| 2) Permissible supply Voltage | - + 20%, - 25% |
| 3) Output Contacts | - Two change over (potential free) |
| 4) Switching duty | - 6A resistive at 250V AC or 24V DC |
| 5) Electrical Life | - 10 ⁵ operation at designed switching duty |
| 6) Relay Status | - De-energised in normal conditions |
| 7) Signal | - From core balanced current transformer (CBCT) |
| 8) Range | - A = 10-100% (0.5 -5A For 5A CT Sec)
- B = 50-100% (2.5 -5A For 5A CT Sec) |
| 9) Time Delay | - 0 - 10Sec |
| 10) Mounting | - on any standard mounting channel |
| 11) Reset | - User selectable Auto/Manual Reset |
| 12) Approximate Weight | - 150gm |
| 13) Dimension | - 77mm(W) X 90(H) X 110mm(D) |

OPERATION

The Earth fault relays monitors the current flowing through the Earth circuit through secondary of C. T which is in the earth path or CT's connected parallel for all phases and Neutral. When current signal goes out of the range selected on the dial , the relay status will change . The relays are provided with time delays . For earth fault protection of alternator the C. T. Is connected between Alternator neutral & ground, or Neutral of the circuit.

Connection Details



How To Order EFR?

Ordering Pattern-

EFR-1 - S - C - 30S - 5

Series

EFR-1 : Earth Fault Relays in channel mounting Enclosure

Terminals

S - Screw type terminals
C - Cage type terminals (Screwless)

Current Range

A-10 to 100%
B-50% to 100%

Time Range

10s-upto-10 secs.
30s- "-30 secs.
60s- "-60 secs.

Supply

1-110V AC
2-230V AC
3-380V AC
4-415V AC
5-12 V DC
6-24V DC