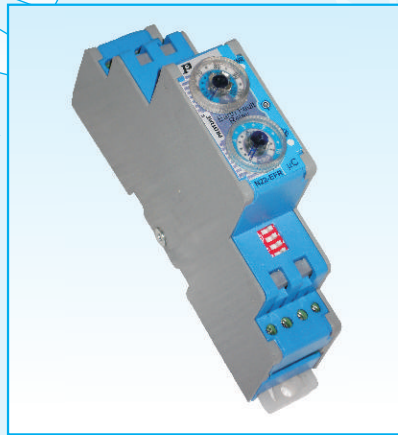


PROTIME®



## N22 Series Relay

N22 - EFR

### Special Features

- Most compact yet ultra flexible protection relays
- Micro controller based True RMS Measurement
- Two Tripping ranges in one unit
- Two Time delay ranges in one unit
- User selectable Normal/Fail safe Modes
- User selectable Auto/Manual Reset
- Wide power supply range from 90-270V AC/DC

### Technical Data

- |                        |  |
|------------------------|--|
| 1) Supply Voltage      | - 90-270V AC/DC  |
| 2) Output Contacts     | - one change over (potential free)   |
| 3) Switching duty      | - 6A resistive at 250V AC or 24V DC  |
| 4) Electrical Life     | - 10 operation at designed switching duty  |
| 5) Relay Status        | - Normal = De-energised in normal conditions<br>Fail Safe = De-energised in fault conditions |
| 6) Signal              | - From CBCT /1A-5A CT  |
| 7) Ranges              | - A = 10-100% (0.5 -5A For 5A CT Sec)<br>- B = 50-100% (2.5 -5A For 5A CT Sec)               |
| 8) Time Delays         | - 0 - 1 Sec / 1 - 10Sec  |
| 9) Reset               | - User selectable Auto/Manual Reset  |
| 10) Mounting           | - Din channel  |
| 11) Approximate Weight | - 100gm  |
| 12) Dimension          | - 22.5mm(W) X 110(D) X 73.5mm(H)   |

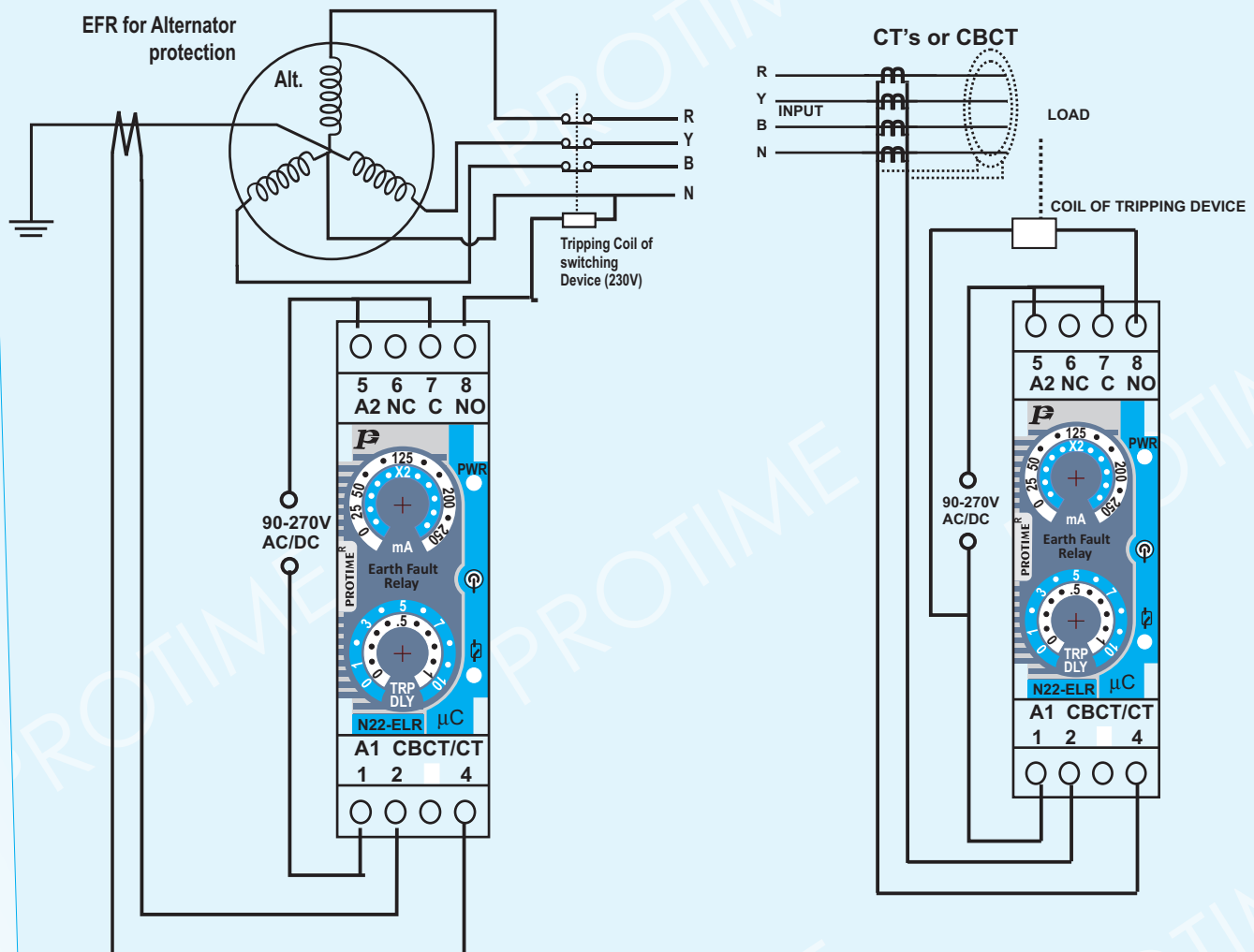
### Applications:

**Distribution Panel Boards  
Motors / Pump Panel Board  
Generators  
Transformers etc.**

## OPERATION

The N22 series Earth fault relays monitors the current flowing through the Earth circuit through secondary of C. T which is in the earth path or all phase CT's are connected parallel and connected to relay signal input. If Neutral is also available in circuit, a neutral CT also connected parallel. 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. The N22 relay has two selectable setting range for tripping. Also relay has wide auxiliary power supply range from 90 to

## Connection Details



## HOW TO ORDER ?

Ordering Pattern (example)- **N22-ELR-1**

N22-EFR - 1

Code

Tripping Range

A-10-100%

B-50-100%

Note:- Design & specifications may change due to our continuous developmental efforts.