

PROTIME®



## N96 Digital Relays

**N96-DEFR**

### Special Features

- Programmable Digital Power Protection Relays with LCD displays
- Wide Time delay ranges with precise settings
- Designed using latest 12 bit Micro controllers
- True RMS Measurement
- 2 selectable tripping ranges
- C.B.C.T. Open/No signal fault indication
- RS 232/485 output-(Optional)
- 0-5V Analog output-(Optional)
- Wide power supply range from 90-270V AC/DC

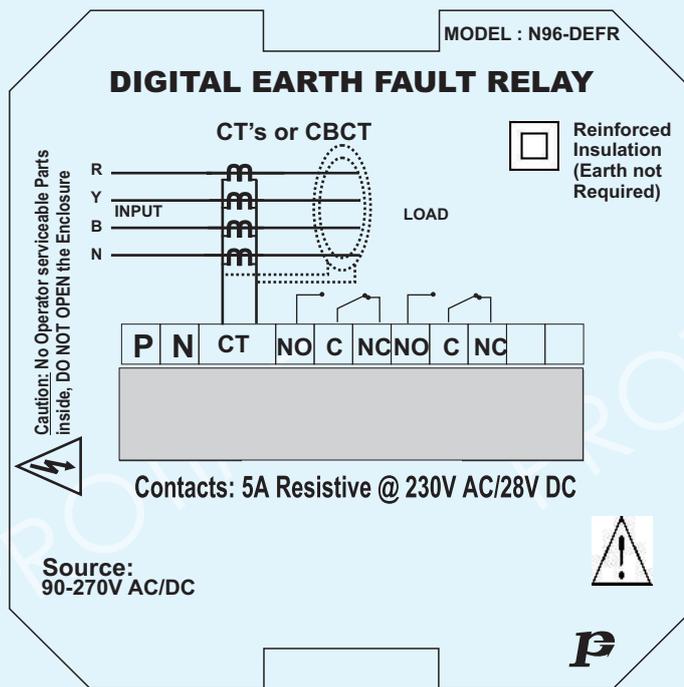
### Technical Data

- |                        |  |
|------------------------|--|
| 1) Supply Voltage      | - 90-270V AC/DC  |
| 2) Output Contacts     | - Two change over (potential free)   |
| 3) Switching duty      | - 6A resistive at 250V AC or 24V DC  |
| 4) Electrical Life     | - 10 <sup>6</sup> 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  |
| 7) Range               | - A = 10-100%<br>- B = 50-100%   |
| 8) Time Delays         | - Trip 0 - 10 Sec in steps of 100ms  |
| 9) Mode of operation   | - Under & Over current   |
| 10) Reset              | - User selectable Auto/Manual Reset  |
| 11) Mounting           | - Panel Mounting (Flush) CUTOUT=92 X 92mm  |
| 12) Approximate Weight | - 200gm  |
| 13) Dimension          | - 96mm(W) X 96(H) X 80mm(D)  |

### OPERATION

The Digital Earth Fault relay monitors the current flowing through the circuit continuously through secondary of CT / CBCT which is in the current path. When current signal goes out of the range selected, the relay status will change. The relay checks CT/CBCT for its healthiness first & then starts monitoring fault current. The relays are provided with time delays. The C. T./CBCT is connected in earth fault current path. For e.g. Cable connected between Alternator neutral & ground, or Neutral of the circuit, or if CBCT is used it is connected to pass all 3/4 wires to pass through it to measure fault current. Digital EFR has a facility for user to program AUTO/MANUAL RESET and NORMAL/FAIL SAFE TRIPPING of relays. Also it has connectivity of RS232/485 as an additional option.

### Connection Details



### HOW TO ORDER ?

Ordering Pattern (example)- **N96-DEFR-1**

N96-DEFR - 1

Code

Tripping Range

A-10-100%

B- 50-100%