

PROTIME

Over Voltage Relay



Over Current Relay



## IDMT Series Relay

N96 - IDMT /1E  
N96 - IDMT /3E  
N96 - IDMT /4E

### Special Features

- 🔑 Digital Programmable IDMT Relay
- 🔑 Compact yet most Flexible
- 🔑 True RMS Measurement
- 🔑 User Programmable 5 Curves
- 🔑 user Selectable Phase or Earth Fault Application

### 3E / 4E Features

- 🔑 Individual I/P (Phase or Earth Fault ) range Selectable
- 🔑 Option of extra O/P Relay for each I/P fault
- 🔑 Optional - Rs 232 / Rs 485 Compatibility

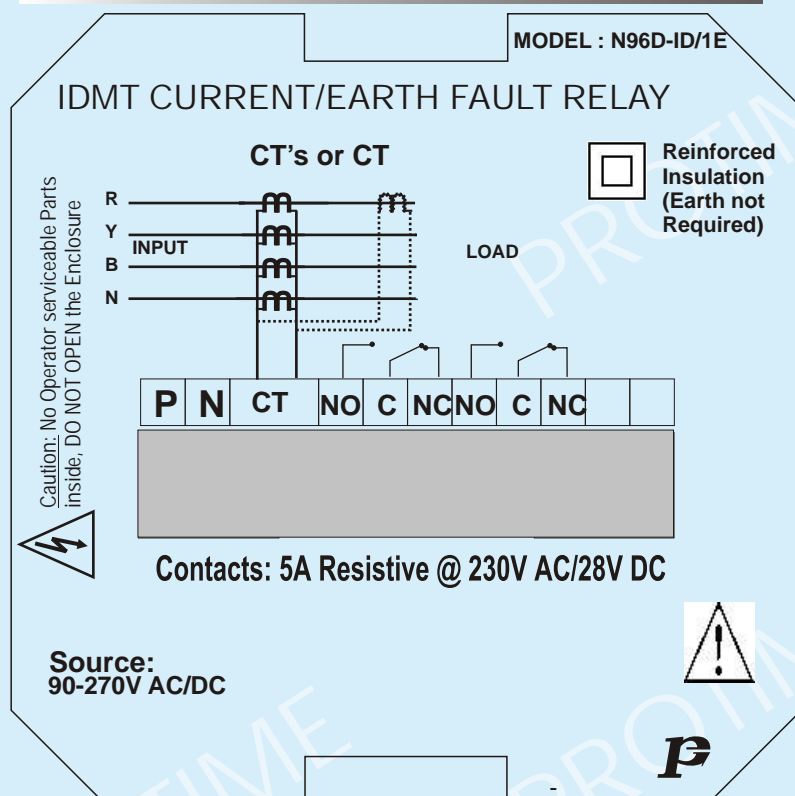
### Technical Data

- |                                       |  |
|---------------------------------------|--|
| 1) supply Voltage                     | - 90-270V AC/DC or 15-40 DC (less than 12VA).  |
| 2) Output Contacts                    | - 1C/O- Alarm 1C/O- Trip, Separate C/O, For Each Element   |
| 3) Switching duty                     | - 6A resistive at 250V AC or 24V DC  |
| 4) Signal                             | - From 5A/1A CT Secondary (2VA)  |
| 5) Setting Range (I <sub>&gt;</sub> ) | - For over current relay fraction operation & earth fault operation<br>For Phase - 40% to 240% in steps of 10%<br>For earth - 10% to 100% in steps of 10%              |
| 6) High Set (>>)                      | - For over current relay operation & earth fault operation<br>For phase 200% to 1600% & in (by pass))steps of 25%<br>For earth 105 to 800% & (by pass) in steps of 25% |
| 7) Supply Frequency                   | - 50Hz / 60Hz  |
| 8) IDMT Curve                         | - 1) Normal Inverse, 10N-1.3 sec<br>2) Normal Inverse 10N-3sec<br>3) Very Inverse 10N-1.5sec<br>4) Extremely Inverse 10N-0.8sec<br>5) Long time Inverse 10N-13.3sec    |
| 9) Electrical Life                    | - 10 <sup>5</sup> operations at designed switching duty  |
| 10) Operation Time                    | - User selectable (3 Sec/1 Sec) normal inverse characteristics   |
| 11) Mounting                          |  |
| 12) Approximate Weight                |  |
| 13) Dimension                         |  |

## OPERATION IDMT Relays

The IDMT Over current / Earth Fault relay monitors the current flowing through the respective circuit and trips the system supply with Inverse Characteristics Time Delays. The normal Inverse Curve as per IS: 3231 is provided in the relays with user selectable 3 Sec & 1.3 Sec. Curves.

### Connection Details



### HOW TO ORDER IDMT RELAY?

Ordering Pattern (example)-

N96 IDMT

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**Series**

**N96-IDMT / 1E-** Single element IDMT Relay  
**N96-IDMT / 3E-** Three Element IDMT Relay  
**N96-IDMT / 4E-** Four element IDMT Relay

**Supply**

1 - 90-270V AC/ DC  
 2 - 15-40V DC