PROTIME®


# N96 Digital Relays

**N96D-VR**

## 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 with user programmable Under &/or Over Voltage triping
- RS 232/485 output-(Optional)
- 0-5V Analog output-(Optional)
- Wide power supply range from 90-270V AC/DC

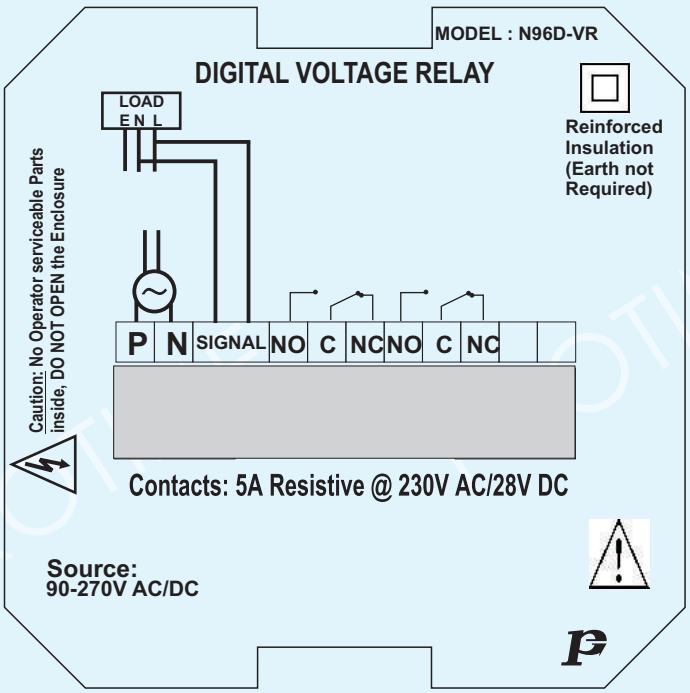
## Technical Data

| | |
|---|---|
| 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 | - $10^5$ operation at designed switching duty |
| 5) Relay Status | - Normal - De-energised in normal conditions<br>Fail Safe - De-energised in fault conditions |
| 6) Signal | - 240V AC, 415V AC (2 wire) |
| 7) Range | - UV = 70-95%<br>- OV = 105-120% |
| 8) Time Delays | - Trip 0 - 10 Sec in steps of 100ms |
| 9) Mode of operation | - Under &/or Over Voltage |
| 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 Voltage relay monitors the voltage of the circuit continuously . When voltage signal goes out of the range selected , the relay status will change .The relay checks for its healthiness first & then starts monitoring voltage signal. The relays are provided with time delays .Digital VR 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. **DC Voltage Relays are also available .**User can program the relay for Under voltage, or Over Voltage or both combined protections.

## Connection Details




## HOW TO ORDER ?

**Ordering Pattern** (example)- **N96D-VR-A**

N96D-VR - A

**Code**
**N96D-**VR = for AC Voltage
**N96D-**VRD = for DC Voltage

***Tripping Range***
UV-70-95%
OV- 105-120%

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