PROTIME®

N96 Digital Relays

N96D-FR

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 Frequency triping
- RS 232/485 output-(Optional)
- 0-5V Analog output-(Optional)
- Wide power supply range from 90-270V AC/DC

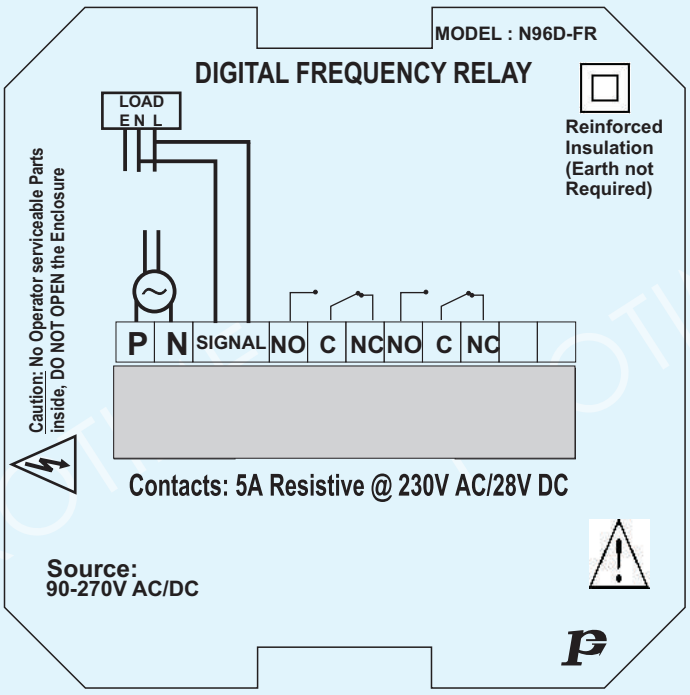
Technical Data

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 Fail Safe - De-energised in fault conditions
6) Signal	- 240V AC, 415V AC (2 wire)
7) Range	- UF = 30-49% - OF = 52-60%
8) Time Delays	- Trip 0 - 10 Sec in steps of 100ms
9) Mode of operation	- Under &/or Over Frequency
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 **N96-**Digital **Frequency** relay monitors the Frequency of the circuit continuously . When it 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 FR 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.User can program the relay for Under , or Over Frequency or both combined protections.

Connection Details



HOW TO ORDER ?

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

N96D-VR - A

Code
N96D-FR1 = for 1-Ph. AC Voltage
N96D-FR2 = for 2-Ph. AC Voltage

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

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