

**PROTIME**



## N22 Series FAN FAILURE Relay

**N22 - FFR2**

### Special Features

- Most compact yet FAN FAILURE Relay, Ideally suitable for critical application Panels
- Micro controller based most **intelligent** True RMS Measurement
- **Self calibrating** type FFR within specified Range
- **No effect** of Supply voltage variations\*
- Separate **LEDs** for FAN "Blocked" or "OPEN" conditions
- No External CT required (Up to 2A range)
- Wide power supply range from 90-270V AC/DC

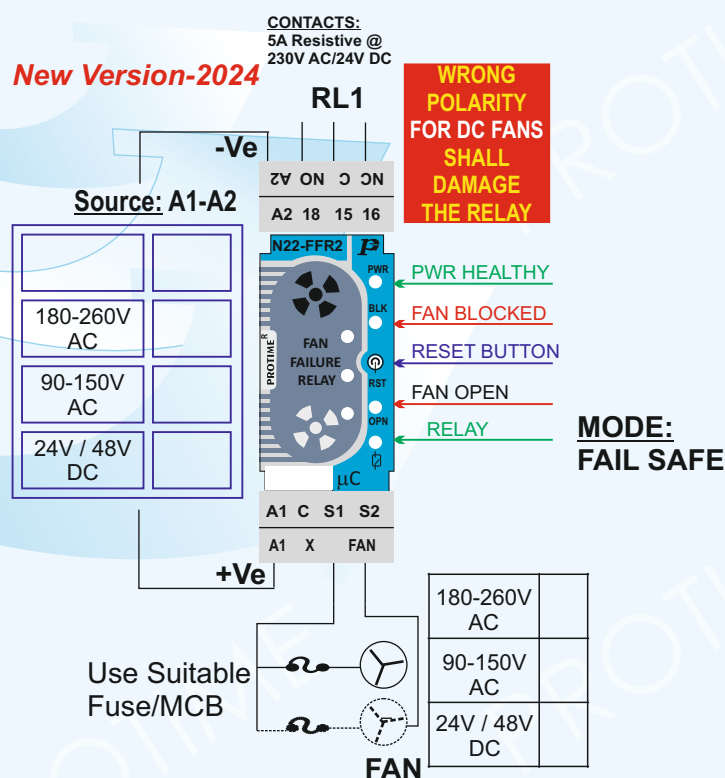
**Now also  
available  
For EC FANS**

### Technical Data

- |                          |  |
|--------------------------|--|
| 1) Supply Voltage        | - 180-260V AC/DC* (As per FAN Supply& AC/DC Model)     |
| 2) Output Contacts       | - one change over (potential free)                     |
| 3) Switching duty        | - 6A <sub>5</sub> resistive at 250V AC or 24V DC       |
| 4) Electrical Life       | - 10 <sup>5</sup> operation at designed switching duty |
| 5) Relay Status          | - Energised in normal conditions (Fail Safe Mode)      |
| 6) Signal                | - direct up to 2A (as per range selected)              |
| 7) Ranges                | - AB=60-1200mA, <b>EC* =50mA-500mA</b>                 |
| 8) Time Delays           | - 2 Sec (Fixed)  |
| 9) Reset                 | - MANUAL Reset   |
| 10) Mounting             | - Din channel  |
| 11) Approximate Weight   | - 100gm  |
| 12) Dimension            | - 22.5mm(W) X 110(D) X 73.5mm(H)                       |
| 13) ENCLOSURE:           | - ABS Type = N22                                       |
| 14) Operating Temp & RH: | -10°C, +55°C up to 80%                                 |
| 15) Storage Temp. & RH:  | -25°C, + 70°C up to 95%                                |

The N22 series Fan Failure relays monitor the health of cooling FAN used in Mission Critical applications. The N22-FFR senses "FAN Blocked" or "FAN OPEN" conditions and is provided with fixed time delay to avoid nuisance tripping. The relay has wide auxiliary power supply range from 90 to 270V AC/DC, *but the Aux. Supply suitable to FAN should be connected to relay*. The N22-FFR2 relay has two Standard current ranges as per fan size, it is economic yet flexible version of relay, where current range of different Fans gets automatically selected during installation of relay. The two ranges should be selected by user while placing an order as per fan's current consumption. The Fan/s current should be within range selected. Each FFR can monitor 2 fans maximum, when connected in parallel. The relay has inbuilt intelligence to cater the changes in input supply voltage within + 10% & -5% of nominal supply voltage.

## Connection Details



CE

**Caution:** No Operator serviceable Parts inside, DO NOT OPEN the Enclosure



### Reinforced Insulation (Earth not Required)



**Read Instruction manual  
before connection.**



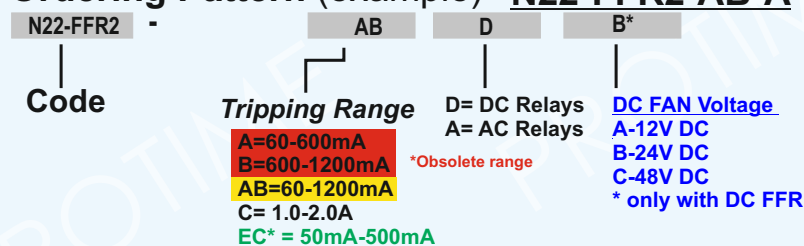
**Caution:** Use Stable Power Supply to drive FANs for nuisance free operation

## Applications:

Digital/Telecom AUTOMATION Panel Boards  
Power Electronics Panel Boards/equipments  
Critical application panel boards etc.

## HOW TO ORDER ?

### Ordering Pattern (example)- N22-FFR2-AB-A



**\* Suitable for Electronically Commuted FANS (EC) ONLY**  
Non standard range can be made for bulk requirements.

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