Protech Engineering & Controls Pvt. Ltd. Mumbai



Frequency Relays

FR-1

Special Features

- Under & Over Frequency relays with calibrated linear scale
- Smart design to fit on any standard mounting channel.
- Choice of screwless terminals
- + 2% Accuracy
- Total wireless interiors
- Test & Auto/Manual Reset facility
- Ideal for DG set applications.
- Designed for high reliability, as relay energizes only under fault conditions

Technical Data

- 1) supply Voltage
- 110V / 220V / 380V / 415V AC 50Hz or 12 / 24V DC.
- 2) Permissible SupplyVariation + 25%
- 3) Output Contacts
- 4) Switching duty
- 5) Relay Status
- 6) Set Point (Range)
- 7) Time delay (optional)
- 8) Mode of operation
- 9) Reset
- 10) Setting Accuracy
- 11) Mounting
- 12) Dimensions

- Two change over contacts
- 6A resistive at 24V DC or 240V AC
- De-energised in normal conditions.
- U/F = 30 45 Hz
 - O/F = 55 60 Hz
- 0.1-10 sec settabe
- Under Frequency / Over Frequency combined. Automatic/Manual.
- + 5% of Full Scale.
- Any standard mounting channel.
- 77mm(W) X 90mm(H) X 110mm(D)

OPERATION

The Frequency relay continuously monitors line frequency. The Line Frequency is compared with highly stable internal crystal based frequency to achieve error-proof result. If the line Frequency goes out of the range selected, relay changes the status after the SET time delay.

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Connection Details

