



Powering Innovation



PROTECTION + AUTOMATION + CONTROL

FREQUENCY RELAY HAVING TWO INDEPENDENT STAGES OF OVER / UNDER FREQUENCY WITH DEFINITE TIME DELAY JRF 014

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FEATURES

- ◆ Two stage of frequency protection
- ◆ Digital display of line frequency
- ◆ Draw out case 144x144 mm

APPLICATION

The relay provides time graded over / under frequency protection. Used in industrial plants having captive power generators requiring under frequency protection.

PRINCIPLE OF OPERATION

The Realy, JRF 014, is a Microprocessor based frequency relay The relay can be configured for 2 stage under frequency relay, two stage over frequency relay or Under / Over frequency relay. The relay's operating time can be programmed. The relay measures line frequency and if it exceeds the set threshold in case of over frequency or if it is less than set threshold then relay extends a trip signal after an operating time.



TECHNICAL DATA

RATINGS

| | | |
|------------------|---|---|
| Frequency rating | : | 50 Hz |
| Voltage rating | : | 63.5V AC 110V AC |
| Aux. Supply | : | 20 to 60V DC 75 to 150V AC / DC 175 to 265V AC/DC |

SETTINGS

| | | |
|----------------------|---|---------------------------------|
| Definite time | : | 0.1 to 20.0s in steps of 0s |
| Setting range CH1 | : | 45 to 55Hz in steps of |
| Setting range CH2 | : | 45 to 55Hz in steps of 0.01Hz |
| Dropout frequency | : | 0.1 to 1.5Hz in steps of 0.1 Hz |
| Low voltage blocking | : | 75% of rated voltage |
| Evaluation time | : | 5 Cycles |

OVER LOAD RATINGS

| | | |
|---------------|---|--------------------------|
| Voltage input | : | 2 times Rated continuous |
|---------------|---|--------------------------|

BURDEN

| | | |
|----------------|---|----------------|
| Voltage input | : | 0.2 VA |
| DC Aux. Supply | : | Less than 10 W |

ACCURACY

| | | |
|-----------------|---|-----------------------------|
| Operating value | : | ±0.01Hz |
| Operating time | : | ±2% or ±50ms whichever high |

