Monitoring frequency relay RF8-01

Instruction Manual



General

■Applications

-Protect electrical equipment and motors from over or under frequency.

-Normal/emergency power supply switching.

■ Function Features

- Supply from monitored voltage.
- 50/60Hz can be set through wire connection.
- Relay status is indicated by LED.
- 1-MODULE,DIN rail mounting.

■Model and connotation

RF8 −01

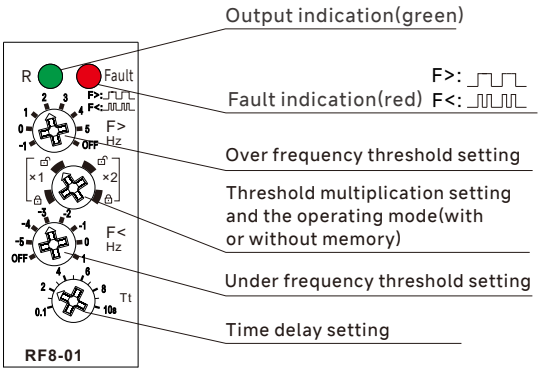
Design number

RF8 Series

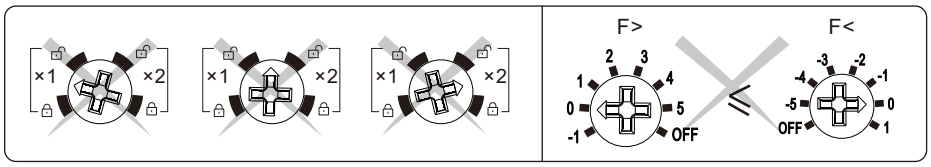
Technical parameters

	RF8-01
Function	Monitoring frequency
Supply terminals	A1-A2
Rated supply voltage	AC120-277V
Supply voltage limits	AC100-310V
Monitoring frequency range	40Hz-70Hz
Over threshold value	-2...+10 Hz
Under threshold value	-10...+2 Hz
Hysteresis	fixed 0.3Hz
Measurement error	±0.05Hz
Time delay	Adjustable 0.1s-10s,10%
Delay at power up	0.5s
Temperature coecient	0.05%/℃,at=20℃(0.05%℉, at=68℉)
Output indication	green LED
Output	2×SPDT
Current rating	8A/AC1
Switching voltage	250VAC/24VDC
Min.breaking capacity DC	500mW
Fault indication	red LED
Mechanical life	1×10^7
Electrical life(AC1)	1×10^5
Operating temperature	-20℃ to +55℃ (-4℉ to 131℉)
Storage temperature	-35℃ to +75℃ (-22℉ to 158℉)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage cathegory	III.
Pollution degree	2
Max.cable size(mm^2)	solid wire max.1×2.5or 2×1.5/with sleeve max.1×2.5(AWG 12)
Tightening torque	0.4Nm
Dimensions	90×18×64mm
Weight	59g
Standards	EN/IEC60947-5-1

Panel Diagram



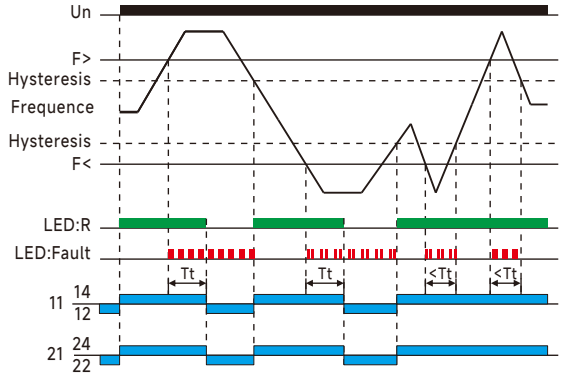
Wrong settings



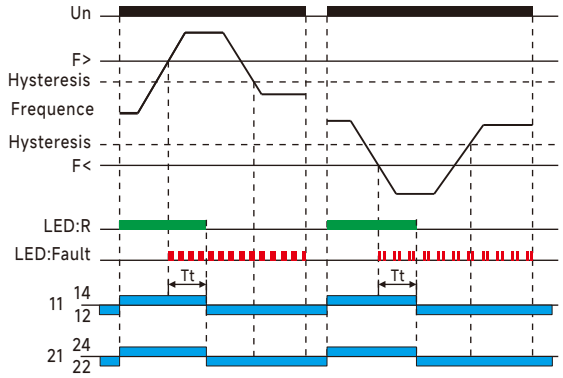
The set over threshold value must be larger than under threshold value. Both over threshold and under threshold cannot be set to OFF at the same time. Otherwise, all LEDs would flash and the output relay would be disconnected.

Functions Diagram

No Memory

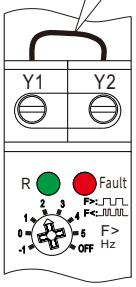


Memory

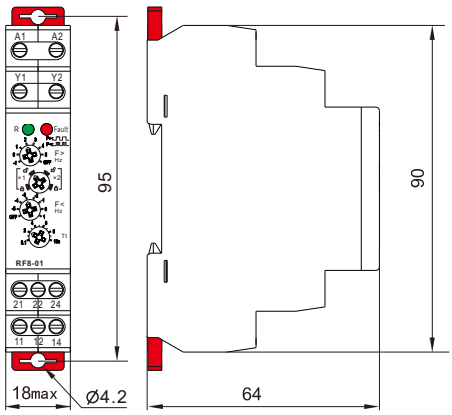


50/60Hz setting

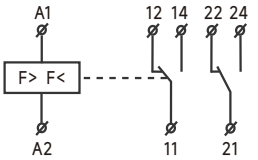
If monitoring at 50Hz, there is no need to short-circuit between Y1 and Y2.If monitoring at 60Hz, please connect Y1 Y2 with wires. And it must be wired when the power is OFF.



Dimensions(mm)



Wiring Diagram



Disposal of Electrical Waste
All electrical waste should be disposed of in compliance with current WEEE regulations.

Caution
The products must be installed by qualified electricians. All and any electrical connections of the product shall comply with the appropriate safety standards.