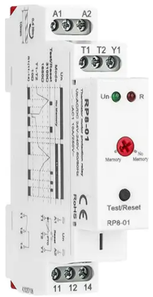
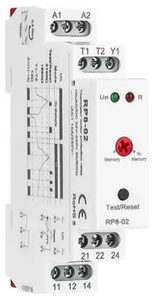
Thermistor motor protection relay

Applications

- To protect against thermal overload of motors caused by high switching frequency, heavy duty starting, phase failure on one phase, bad cooling, high ambient temperature.



RP8-01



RP8-02

Feature

- 1 input for PTC-resistors or bimetal contacts.
- Broken wire detection in sensor circuit.
- 1 or 2 changeover contacts.
- Can be externally connected with a reset button.
- 1-MODULE,DIN rail mounting.

Model and connotation

RP8 – 01 / □

- Rated control supply voltage — S240:AC/DC24V-240V
- Function mode
- RP8 Series

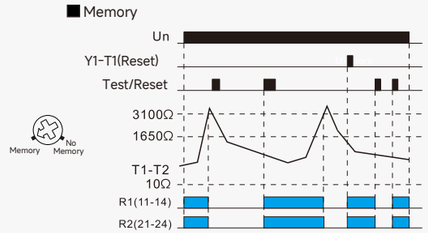
Technical parameters

	RP8-01	RP8-02
Function	Thermistor motor protection relay	
Supply terminals	A1,A2	
Voltage range	AC/DC 24-240V(50-60Hz)	
Burden	AC 0.7-3VA/DC 0.5-1.7W	
Supply voltage tolerance	-15%;+10%	
Supply indication	green LED	
Max cold PTC resistance	1500Ω	
Alarm setpoint	3100Ω±10%	
Return setpoint	1650Ω±10%	
Short-circuit detection	0 to 10Ω	
Output	1×SPDT	2×SPDT
Current rating	10A/AC1	
Switching voltage	250VAC/24VDC	
Min. breaking capacity DC	500mW	
Output indication	Red LED	
Mechanical life	$1x10^7$	
Electrical life (AC1)	$1x10^5$	
Operating temperature	-20°C to +55°C (-4°F to 131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP20 terminals	
Operating position	any	
Overvoltage cathegory	III	
Pollution degree	2	
Max. cable size(mm)	1×2.5mm² or 2×1.5mm² 0.4N.m	
Dimensions	90x 18x 64mm	
Weight	62g	82g
Standards	IEC 60947-1	

Functions Diagram

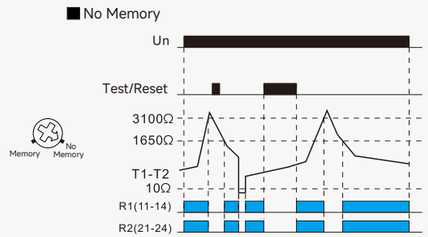
The temperature control relay can take up to 6 PTC (positive temperature coefficient) probes wired in series between terminalsT1 and T2.

■ Memory



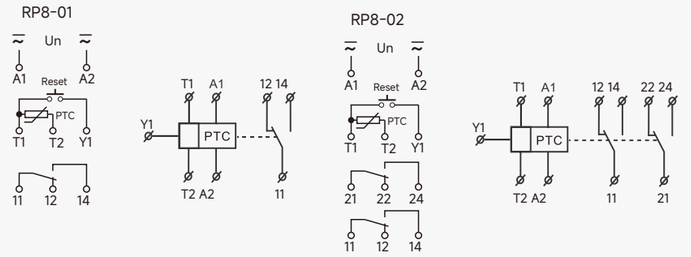
In “memory” mode, when a fault is detected, the “temperature” relay locks in the open position.
As soon as the temperature returns to the correct value, the relay can be unlocked (reset), either by pressing the “Test/Reset” button (for at least 200 ms), or by closing a volt-free contact (for at least 200 ms) between terminal Y1 and T1 (without a parallel load).
When a fault has been detected and the temperature has returned to normal, the “temperature” control relay can be unlocked (reset) by pressing the “Test/Reset” button.

■ No Memory

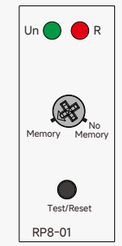


In “No Memory” mode, a fault is declared when the resistance of the temperature sensing circuit exceeds 3100 Ω.
Return to normal status is detected when the resistance is once again below 1650 Ω.
The result of the control is indicated by the status of the “temperature” output relay, NO contact 11-14 is open in the event of a fault.
Opening of the thermal sensing circuit, which has the same effect as a high temperature (resistance exceeds 3100 Ω), is therefore interpreted as a fault.
Total short-circuiting of the temperature probe(s), detected when resistance is less than 10 Ω, is treated as a fault.
LED R is on when the temperature is correct.

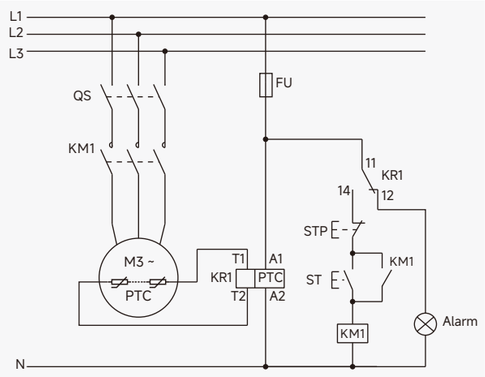
Wiring Diagram



Panel Diagram



Application Examples



Dimensions(mm)

