

motor voltage and temperature control relay - RM35-T - 24..240 V AC/DC - 2 NO

Local distributor code: 389834971

RM35TM50MW

EAN Code: 3389119405287

Main

Range of product	Harmony Control Relays	
Relay type	Motor temperature control relay	
Product or component type	Motor temperature control relay	
Relay name	RM35TM	
Relay monitored parameters	Phase sequence Motor temperature via PTC probe Phase failure detection	
Measurement range	208480 V AC 153100 Ohm	
time delay	Without	
Output contacts	2 NO	
nominal output current	5 A	
Contacts type and composition	2 NO	
[Uc] control circuit voltage	24240 V	
Product specific application	For 3-phase supply	

Complementary

[Un] rated nominal voltage	24240 V AC/DC 50/60 Hz, non self-powered	
Supply voltage limits	20.4264 V AC 20.4264 V DC	
Reset time	10000 ms output	
Maximum switching voltage	250 V AC 250 V DC	
Switching capacity in VA	1250 VA	
Minimum switching current	10 mA at 5 V DC	
Maximum switching current	5 A AC 5 A DC	
Power consumption in VA	04 VA at 24240 V AC	
power consumption	0.5 W DC	
Control circuit frequency	5060 Hz +/- 10 %	
Resistance across terminals	602 mOhm	
Measurement voltage limits	176528 V AC	
delay at power up	500 ms	
Voltage range	176528 V	

Response time	> 50 ms (input Y1 (contact Y1-T1) and push-button)	
[Uc] control circuit voltage	<= 3.6 V of temperature control circuit (T1-T2 terminals open)	
Short-circuit current	0.007 A temperature sensing circuit (T1-T2 terminals short circuited)	
Maximum resistance	1500 Ohm for temperature sensor at 20 °C	
Tripping threshold	3100 Ohm +/- 10 % for temperature control circuit	
Reset threshold	1650 Ohm +/- 10 % for temperature control circuit	
Insulation resistance	 > 500 MOhm at 500 V DC between supply and relay output conforming to IEC 60255-5 > 500 MOhm at 500 V DC between measurement and relay output conforming to IEC 60664-1 > 1 MOhm at 500 V DC between supply and measurement conforming to IEC 60255-5 > 500 MOhm at 500 V DC between supply and relay output conforming to IEC 60664-1 > 500 MOhm at 500 V DC between measurement and relay output conforming to IEC 60255-5 > 1 MOhm at 500 V DC between supply and measurement conforming to IEC 60664-1 	
[Ui] rated insulation voltage	400 V conforming to IEC 60664-1	
Supply frequency	50/60 Hz +/- 10 %	
Operating position	Any position without derating	
Connections - terminals	Screw terminals, $1 \times 0.51 \times 4$ mm² (AWG 20AWG 11) solid without cable end Screw terminals, $2 \times 0.52 \times 2.5$ mm² (AWG 20AWG 14) solid without cable end Screw terminals, $1 \times 0.21 \times 2.5$ mm² (AWG 24AWG 12) flexible with cable end Screw terminals, $2 \times 0.22 \times 1.5$ mm² (AWG 24AWG 16) flexible with cable end	
Tightening torque	0.61 N.m conforming to IEC 60947-1	
Housing material	Self-extinguishing plastic	
Local signalling	LED (green) for power ON LED (yellow) for phase of relay (R2) LED (yellow) for temperature of relay (R1)	
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715	
Electrical durability	10000 cycles	
Mechanical durability	30000000 cycles	
Operating rate	<= 360 operations/hour full load	
Utilisation category	AC-12 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1	
Width	35 mm	
Product weight	0.13 kg	
control type	Without test button	
Environment		
Immunity to microbreaks	20 ms at 20.4 V	
Electromagnetic compatibility	Emission standard for industrial environments conforming to IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to IEC 61000-6-3 Immunity for industrial environments conforming to IEC 61000-6-2	
Standards	IEC 60255-6 IEC 60034-11-2	

Product certifications	GL	
	ÜL	
	GOST	
	C-Tick	
	CSA	
Marking	CE	
Directives	73/23/EEC - low voltage directive	
	89/336/EEC - electromagnetic compatibility	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-2050 °C	
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30	
Vibration resistance	0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6	
	1 gn (f= 57.6150 Hz) conforming to IEC 60255-21-1	
Shock resistance	15 gn for 11 ms conforming to IEC 60255-21-1	
IP degree of protection	IP20 (terminals) conforming to IEC 60529	
	IP30 (casing) conforming to IEC 60529	
Pollution degree	3 conforming to IEC 60664-1	
Overvoltage category	III conforming to IEC 60664-1	
Dielectric test voltage	2 kV, 1 min AC 50 Hz	
Non-dissipating shock wave	4 kV	

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.300 cm
Package 1 Width	7.800 cm
Package 1 Length	9.500 cm
Package 1 Weight	127.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	48
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.900 kg

Logistical informations

Country of origin

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	29
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration

Use Again

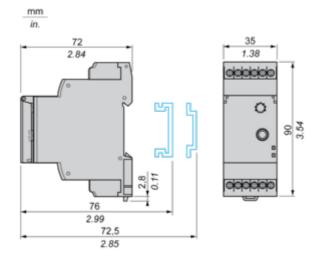
♡ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

RM35TM50MW

Dimensions Drawings

3-Phase Supply and Motor Temperature Control Relays

Dimensions and Mounting



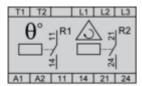
Product datasheet

RM35TM50MW

Connections and Schema

3-Phase Supply and Motor Temperature Control Relays

Wiring Diagram

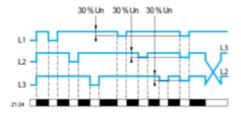


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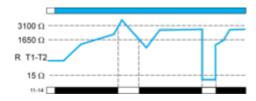
Technical Description

Function Diagrams

Phase Sequence Control and Phase Failure Detection (U measured < 0.7 x nominal supply voltage)



Motor Temperature Control via PTC Probe



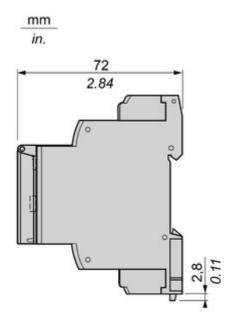
Legend

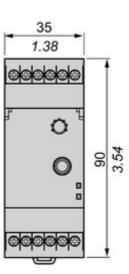
Un Nominal 3-phase supply voltage R T1-T2 Resistance between terminals T1 and T2 11-14 R1 output relay connections Relay status: black color = energized.

NOTE: The temperature control relay can take up to 6 PTC (positive temperature coefficient) probes wired in series between terminals T1 and T2.

Technical Illustration

Dimensions





Offer Marketing Illustration

Product benefits / Features

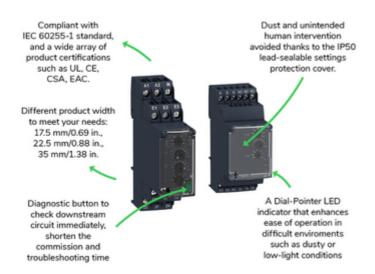


Offer Marketing Illustration

Product benefits / Features

Technical Benefits

Harmony Control Relay



1 Jul 2025

Image of product / Alternate images

Alternative











