

Product data sheet

Specifications



temperature control relay, Harmony Control Relays, 5A, 2CO, phase failure detection, 24..240V AC DC

RM35ATW5MW

⚠ Discontinued on: Jul 28, 2023

⚠ Discontinued

Main

Range Of Product	Harmony Control Relays
Relay Type	Temperature control relays
Product Or Component Type	Elevator machine room temperature control relay
Product Specific Application	For elevator machine rooms and 3-phase supplies
Relay Name	RM35AT
Relay Monitored Parameters	Phase sequence Phase failure detection Undertemperature: -1...11°C Overtemperature: 34...46°C
Time Delay Range	0.1...10 s adjustable delay (tolerance: 0...10 % of the full scale value)
Switching Capacity In Va	1250 VA
Minimum Switching Current	10 mA at 5 V DC
Maximum Power Consumption In Va	3.5 VA AC
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 DC-14 conforming to IEC 60947-5-1
Time Delay	Adjustable 1...10 s Tt- time delay upon fault
Measurement Range	208...480 V AC +/- 1...46 °C

Complementary

Reset Time	8 s
Maximum Switching Voltage	250 V AC/DC
[Us] Rated Supply Voltage	24...240 V AC/DC
[Un] Rated Nominal Voltage	24...240 V AC/DC 50/60 Hz, non self-powered
Supply Voltage Limits	20.4...264 V AC 21.6...264 V DC
Maximum Power Consumption In W	0.6 W DC
Resistance Across Terminals	600 kOhm at 3-phase 1.33 kOhm at temperature
Width	35 mm
Output Contacts	2 NO

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Contacts Material	Cadmium free
Nominal Output Current	5 A
Delay At Power Up	0.2 s
Measurement Accuracy	+/- 2 °C
Response Time	<= 3.5 s + Tt (in case of temperature fault) 500 ms (in case of 3-phase fault) 500 ms (on disappearance of fault)
Temperature Probe Type	Pt 100 - 3-wire
Installed Device	Pt 100 probe cable length <= 10 m
Marking	CE : EMC 89/336/EEC CE : 73/23/EEC
Overvoltage Category	III conforming to IEC 60664-1
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
Operating Voltage Tolerance	- 10 % + 10 % Un DC - 15 % + 10 % Un AC
Supply Frequency	50/60 Hz +/- 10 %
Operating Position	Any position without derating
Connections - Terminals	Screw terminals, 1 x 0.5...1 x 4 mm ² (AWG 20...AWG 11) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm ² (AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm ² (AWG 24...AWG 12) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm ² (AWG 24...AWG 16) flexible with cable end
Tightening Torque	0.6...1 N.m conforming to IEC 60947-1
Housing Material	Self-extinguishing plastic
Local Signalling	1 LED green for power ON 1 LED yellow for correct temperature (high R1)/(low R2) 1 LED yellow for phases of relay
Mounting Support	35 mm symmetrical DIN rail conforming to IEC 60715
Electrical Durability	100000 cycles
Mechanical Durability	30000000 cycles
Operating Rate	<= 360 operations/hour full load
Control Type	Without test button

Environment

Immunity To Microbreaks	10 ms
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 NF EN/IEC 61000-6-2
Standards	NF EN 60255-6 IEC 60255-6

Product Certifications	GL UL C-Tick CSA GOST
Ambient Air Temperature For Storage	-40...70 °C
Ambient Air Temperature For Operation	-20...50 °C
Vibration Resistance	0.35 mm (f= 5...57.6 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1 1 gn (f= 57.6...150 Hz) conforming to IEC 60068-2-6/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
Dielectric Test Voltage	2 kV, 1 min AC 50 Hz
Non-Dissipating Shock Wave	4 kV

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.8 cm
Package 1 Width	4.4 cm
Package 1 Length	9.7 cm
Package 1 Weight	133.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	48
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	7.097 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

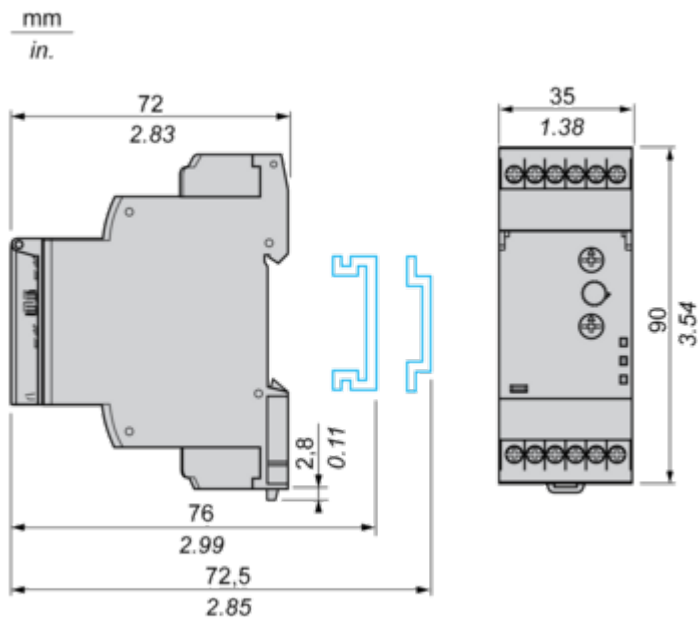
Certifications & Standards

Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Dimensions Drawings

Temperature Control Relays for Elevator Machine Rooms and 3-Phase Supplies

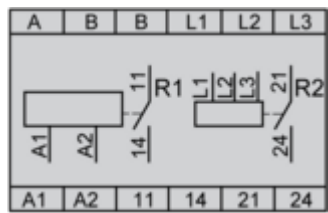
Dimensions and Mounting



Connections and Schema

Temperature Control Relays for Elevator Machine Rooms and 3-Phase Supplies

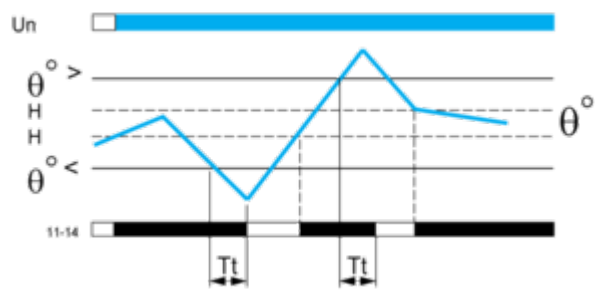
Wiring Diagram



Technical Description

Function Diagram

Temperature Control by PT 100 Probe



Legend

- Tt** Time delay after crossing of the temperature threshold
- Un** Supply voltage
- θ° Temperature monitored
- $\theta^\circ >$ High temperature threshold
- $\theta^\circ <$ Low temperature threshold
- H** Hysteresis
- 11-12, 11-14** R1 output relay connections
- Relay status:** black color = energized.