RM35ATW5MW

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





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: -111°C Overtemperature: 3446°C	
Time delay range	0.110 s adjustable delay (tolerance: 010 % 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 110 s Tt- time delay upon fault	
Measurement range	208480 V AC +/- 146 °C	

Complementary

Complementary		
Reset time	8 s	
Maximum switching voltage	250 V AC/DC	
[Us] rated supply voltage	24240 V AC/DC	
[Un] rated nominal voltage	24240 V AC/DC 50/60 Hz, non self-powered	
Supply voltage limits	20.4264 V AC 21.6264 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	
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	

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 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	1 LED green for power ON1 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[RETURN]UL[RETURN]C-Tick[RETURN]CSA[RETURN]GOST	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-2050 °C	
Vibration resistance	0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1 1 gn (f= 57.6150 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1	

15 gn for 11 ms conforming to IEC 60255-21-1

IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529

3 conforming to IEC 60664-1

2 kV, 1 min AC 50 Hz

4 kV

Shock resistance

Pollution degree

IP degree of protection

Dielectric test voltage

Non-dissipating shock wave

Packing Units

3	
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

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	☐ China RoHS Declaration	
RoHS exemption information	€Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	☐ End Of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	

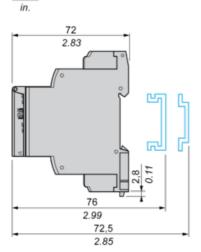
Contractual warranty

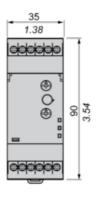
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Warranty	18 mo	nths

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

Dimensions and Mounting



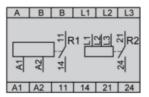


Product data sheet Connections and Schema

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

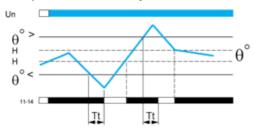
Wiring Diagram



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Function Diagram

Temperature Control by PT 100 Probe



Legend

Tt Time delay after crossing of the temperature threshold

Un Supply voltage

 θ° Temperature monitored

 θ° > High temperature threshold

 θ° < Low temperature threshold

H Hysteresis

11-12, 11-14 R1 output relay connections

Relay status: black color = energized.