Product data sheet Characteristics

RM35ATR5MW

temperature control relay RM35-A - 24..240 V AC/DC - 2 NO



Main

Range of product	Zelio Control
Product or component type	Modular measurement and control relays
Relay type	Temperature control relays
Product specific application	For elevator machine rooms and 3-phase supplies
Relay name	RM35AT
Relay monitored parameters	Overtemperature: 3446°C Undertemperature: -111°C
Time delay range	0.110 s adjustable (010 % of the full scale value)
Switching capacity in VA	1250 VA
Minimum switching cur- rent	10 mA at 5 V DC
Power consumption in VA	<= 3.5 VA AC
Utilisation category	DC-14 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-12 conforming to IEC 60947-5-1

Complementary

0 V AC/DC
240 V AC/DC
.6264 V DC .4264 V AC
0.6 W DC
33 kOhm temperature
mm
NO
idmium free
A
2 s
2 °C
3.5 ms on disappearance of fault 3.5 ms + Tt in case of temperature fault
100 - 3-wire
100 probe cable length <= 10 m
E : 73/23/EEC E : EMC 89/336/EEC
conforming to IEC 60664-1

Insulation resistance	> 1 MOhm at 500 V DC between supply and measurement conforming to IEC 60664-1
	> 500 MOhm at 500 V DC between measurement and relay output conforming to IEC 60255-5
	> 500 MOhm at 500 V DC between supply and relay output conforming to IEC 60664-1
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	> 500 MOhm at 500 V DC between supply and relay output conforming to IEC 60255-5
[Ui] rated insulation voltage	250 V conforming to IEC 60664-1
Operating voltage tolerance	- 15 % + 10 % Un AC - 10 % + 10 % Un DC
Supply frequency	50/60 Hz +/- 10 %
Insulation	Galvanic insulation between supply and measurement
Operating position	Any position without derating
Connections - terminals	Screw terminals 2 x 0.22 x 1.5 mm² - AWG 24AWG 16, flexible cable with cable end
	Screw terminals 1 x 0.21 x 2.5 mm² - AWG 24AWG 12, flexible cable with ca-
	ble end Screw terminals 2 x 0.52 x 2.5 mm² - AWG 20AWG 14, solid cable without cable end
	Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end
Tightening torque	0.61 N.m conforming to IEC 60947-1
Housing material	Self-extinguishing plastic
Local signalling	1 LED yellow for correct temperature (low R2) 1 LED yellow for correct temperature (high R1) 1 LED green for power ON
Mounting support	35 mm symmetrical DIN rail conforming to EN/IEC 60715
Electrical durability	100000 cycles
Mechanical durability	30000000 cycles
Operating rate	<= 360 operations/hour under full load

Environment

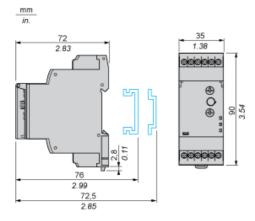
Immunity to microbreaks	10 ms
Electromagnetic compatibility	Immunity for industrial environments conforming to NF EN/IEC 61000-6-2 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Emission standard for industrial environments conforming to EN/IEC 61000-6-4
Standards	IEC 60255-6 NF EN 60255-6
Product certifications	CSA C-Tick GL GOST UL
Ambient air temperature for storage	-4070 °C
Ambient air temperature for operation	-2050 °C
Vibration resistance	1 gn (f = 57.6150 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1 0.35 mm (f = 557.6 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	IP30 (casing) conforming to IEC 60529 IP20 (terminals) conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1
Dielectric test voltage	2 kV AC 50 Hz, 1 min
Non-dissipating shock wave	4 kV



RM35ATR5MW

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

Dimensions and Mounting

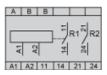


Product data sheet Connections and Schema

RM35ATR5MW

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

Wiring Diagram

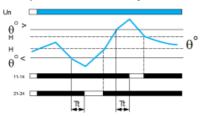


Product data sheet Technical Description

RM35ATR5MW

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

21-22, 21-24 R2 output relay connections

Relay status: black color = energized.