



### Main

Range of product	Zelio Control
Product or component type	Modular measurement and control relays
Relay type	Motor temperature control relay
Product specific application	For 3-phase supply
Relay name	RM35TM
Relay monitored parameters	Phase sequence Motor temperature via PTC probe Phase failure detection
Time delay type	Fixed 0.3 s
Switching capacity in VA	1250 VA
Measurement range	208...480 V voltage AC 0...20 Ohm short-circuit detection

### Complementary

Reset time	10000 Ms output
Maximum switching voltage	250 V AC 250 V DC
Minimum switching current	10 mA at 5 V DC
Maximum switching current	5 A AC 5 A DC
Supply voltage limits	20.4...264 V AC 20.4...264 V DC
Power consumption in VA	0...4 VA at 24...240 V AC
Maximum power consumption in W	0.5 W DC
Control circuit frequency	50...60 Hz +/- 10 %
Resistance across terminals	602 MOhm
Output contacts	2 NO
Nominal output current	5 A
Measurement voltage limits	176...528 V AC
Run-up delay at power-up	500 Ms
Voltage range	176...528 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

Marking	CE
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
Supply frequency	50/60 Hz +/- 10 %
Operating position	Any position without derating
Connections - terminals	Screw terminals, 1 x 0.5...1 x 4 mm <sup>2</sup> (AWG 20...AWG 11) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm <sup>2</sup> (AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm <sup>2</sup> (AWG 24...AWG 12) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm <sup>2</sup> (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	LED (green)power ON: LED (yellow)phase of relay (R2): LED (yellow)temperature of relay (R1):
Mounting support	35 mm symmetrical DIN rail conforming to EN/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
Net weight	0.13 Kg

## Environment

Immunity to microbreaks	20 Ms at 20.4 V
Electromagnetic compatibility	Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to EN/IEC 61000-6-2
Standards	EN/IEC 60255-6 IEC 60034-11-2
Product certifications	GL UL GOST C-Tick CSA
Directives	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-20...50 °C
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30
Vibration resistance	0.35 mm (f= 5...57.6 Hz) conforming to IEC 60068-2-6 1 gn (f= 57.6...150 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

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 Weight	130 G
Package 1 Height	4.5 Cm
Package 1 width	7.8 Cm
Package 1 Length	9.6 Cm
Unit Type of Package 2	S03
Number of Units in Package 2	48
Package 2 Weight	6.918 Kg
Package 2 Height	30 Cm
Package 2 width	30 Cm
Package 2 Length	40 Cm

### Offer Sustainability

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

### Contractual warranty

Warranty	18 months
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Product Life Status : **Commercialised**