

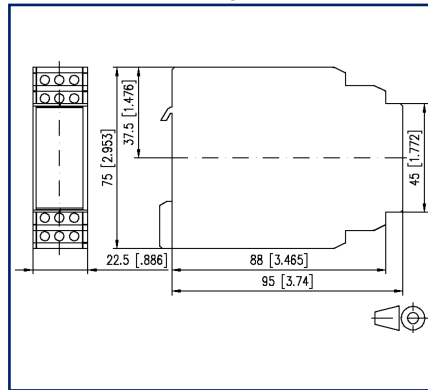
Data sheet

TMR-E12 with error memory, 24 V AC/DC, 2 changeover contacts

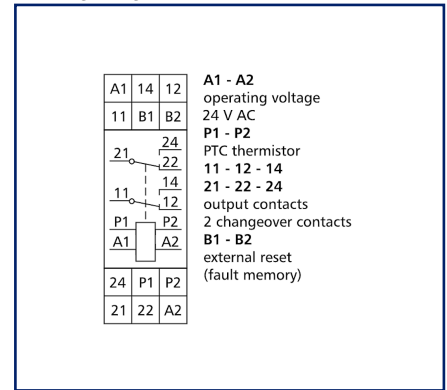
Illustrations



Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

Product specification

The thermistor relay is used as protection relay for motors against thermal overload (inadmissible heating). This heating might be caused by mechanical overload on the shaft or when operating the motor with inadmissible voltages. A PTC thermistor is used as sensor. It should be mounted to the part of the motor that heats most in case of overload (e.g. integrated in motor winding). The device can also be used for motors with integrated thermo switch. Integrated fault memory with reset key at the front.

- Variant:
- 24 V AC/DC
- 2 changeover contacts (DPST)
- Not intended for marketing in North America

TMR-E12 with error memory, 24 V AC/DC, 2 changeover contacts

P/N

1103161322

EAN 4250184118695

2024/10/25

Version: H

Technical Data

| Supply | |
|--|--|
| Operating voltage | 24 V AC/DC -10% ... +10% |
| Frequency range | 50 ... 60 Hz |
| Inputs | |
| Thermistor voltage | 12 V |
| Thermistor current | 1 mA |
| Switch-on resistance | 1.8 kOhm |
| Switch-off resistor | 3.0 kOhm +/- 5 % |
| Outputs | |
| Contacts | 2 changeover contacts |
| Contact material | AgSnO ₂ |
| Switching voltage (max.) | 250 V |
| Continuous Current | 4 A |
| Pick-up delay | 10 ms |
| Switching frequency | 1200 switching cycles/h |
| Mechanical life | 3x10 ⁷ switching cycles |
| Electrical life | 1x10 ⁵ switching cycles |
| Indicator | green and red LED |
| Insulation coil - contact set | |
| Nominal voltage of the power supply system | 230 / 400 V AC |
| Overvoltage category | III II |
| Degree of pollution | 2 2 |
| Rated test voltage | 4 kV 2.5 kV |
| Type of insulation | basic insulation reinforced insulation |
| Housing | |
| Dimensions | |
| Dimension (W x H x D) | 22.5 mm x 75 mm x 95 mm |
| Dimension (W x H x D) | 0.886 in. x 2.953 in. x 3.74 in. |
| Weight | 150 g |
| Mounting style | Standard rail TH35 |
| Mounting position | any |
| Apposition | without distance |
| Connection type | Screw type terminal blocks |

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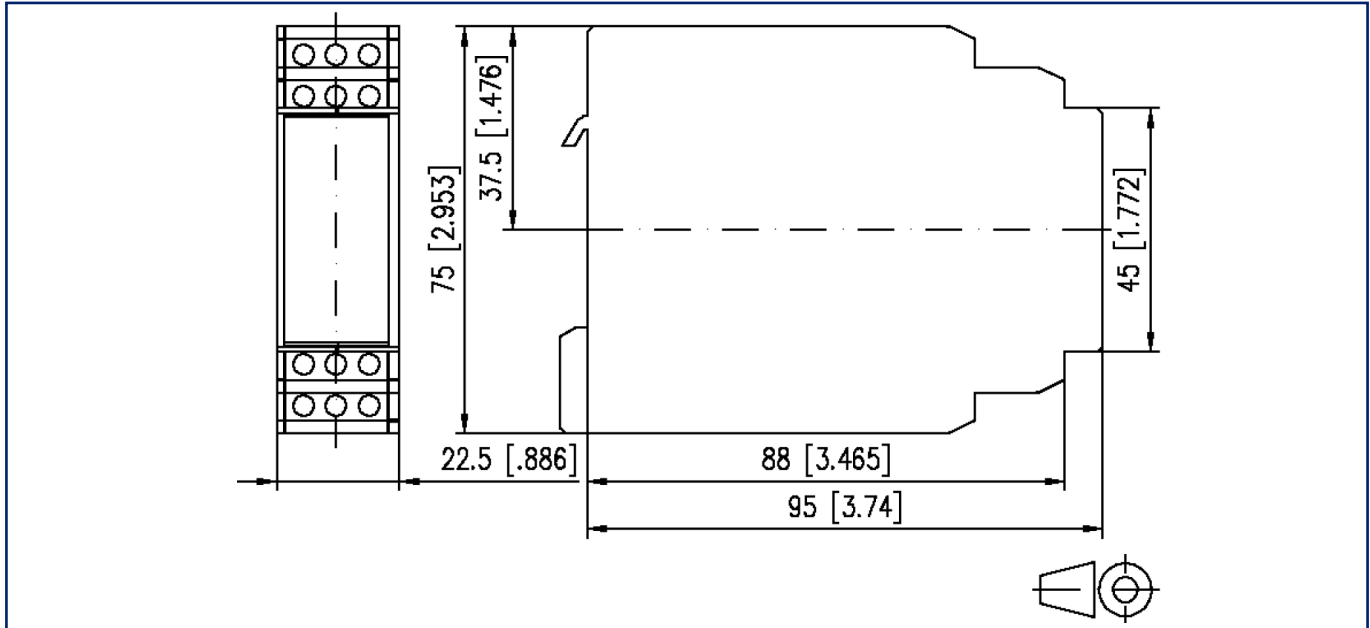
| Terminal blocks | |
|---|--|
| Wire cross section solid | 0.2 mm ² - 2.5 mm ² / AWG 22-12 |
| Wire cross section multi | 0.25 mm ² - 2.5 mm ² / AWG 22-12 |
| Wire cross section with wire ferrule | 0.25 mm ² - 2.5 mm ² / AWG 22-12 |
| Screw torque (max.) | 0.5 Nm |
| Stripping length (min.) | 8 mm |
| Material | |
| Material - Housing | Polyamid 6.6 V0 |
| Color | gray |
| Material - Terminal block | Polyamid 6.6 V0 |
| Material - Covers | Polyamid 6.6 V0 |
| Protection category according to IEC 60529 | |
| Protection category - housing (acc. to IEC 60529) | IP40 |
| Protection category - terminal blocks (acc. to IEC 60529) | IP20 |
| Climatic Data | |
| Operating | |
| Temperature - Operating °C | 0 °C - 55 °C |
| Temperature - Operating °F | 32 °F - 131 °F |
| Relative humidity | max. 85 % non-condensing |
| Storage | |
| Temperature - Storage °C | -20 °C - 70 °C |
| Temperature - Storage °F | -4 °F - 158 °F |
| Classifications | |
| ETIM 7.0 | EC001446 |
| ETIM 8.0 | EC001446 |
| ETIM 9.0 | EC001446 |

Application note

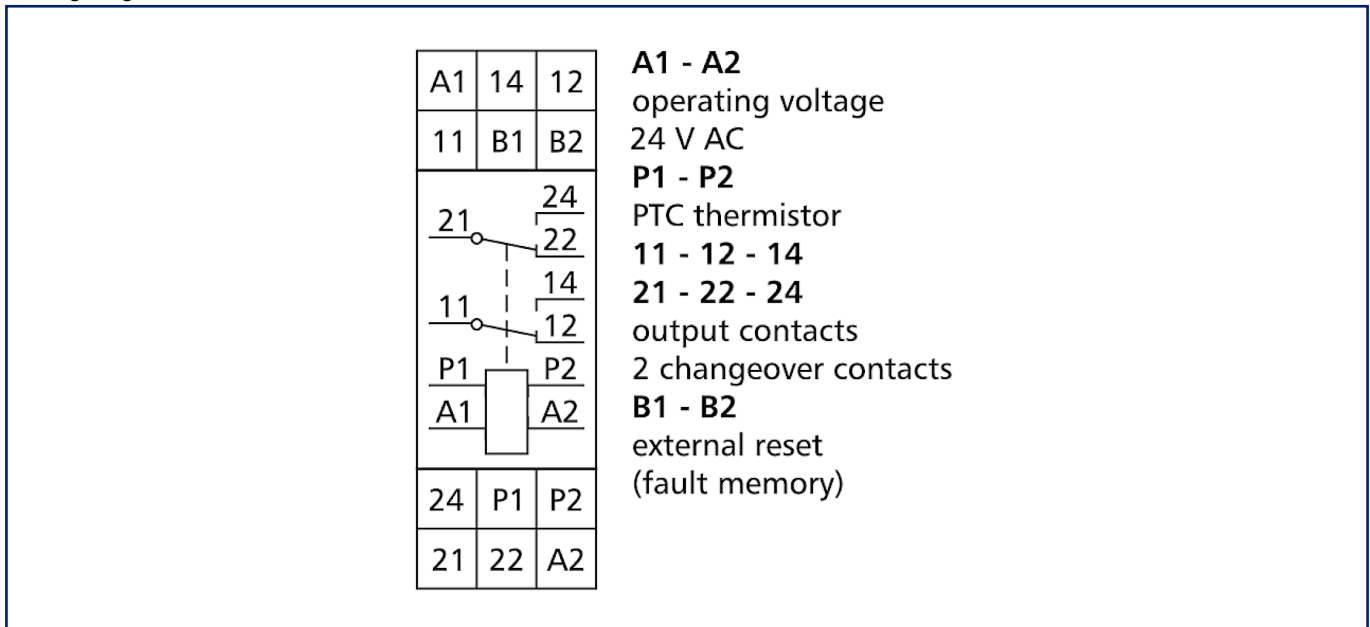
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Illustrations

Dimensional drawing

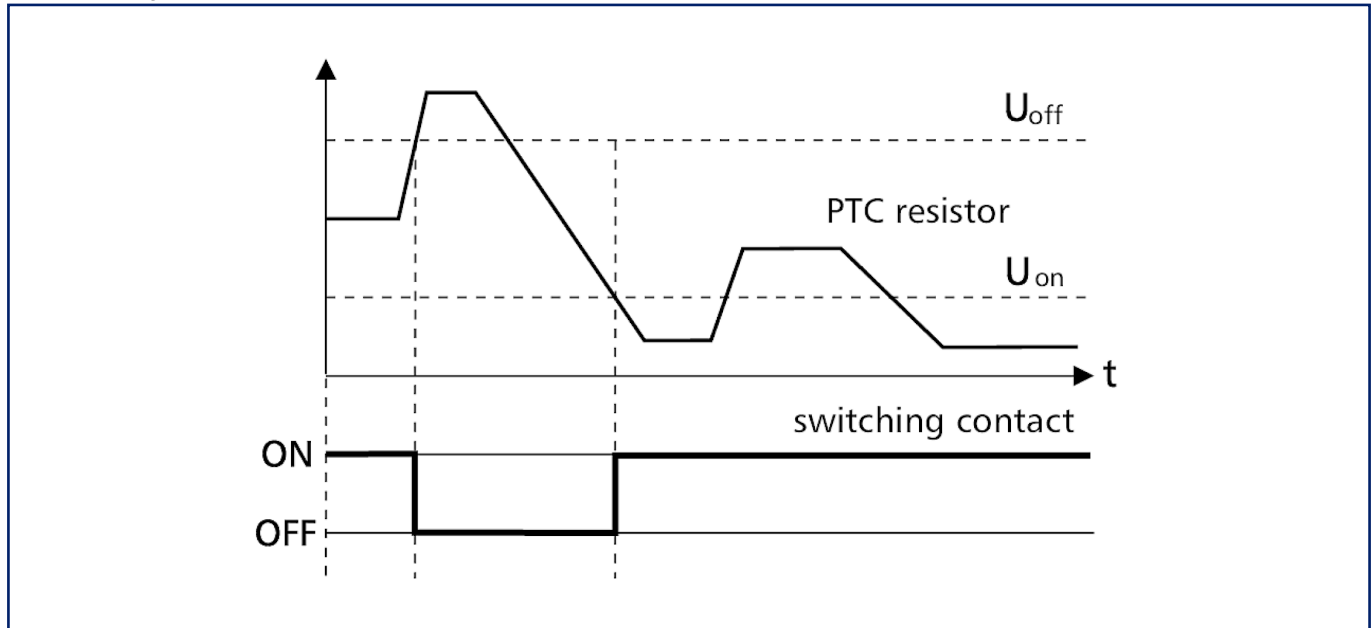


Wiring diagram



Illustrations

Function diagram



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