



We realize ideas

Data sheet

TMR-E12 with error memory, 230 V AC, 2 changeover contacts

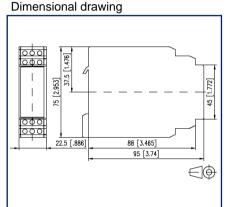
P/N 1103160522

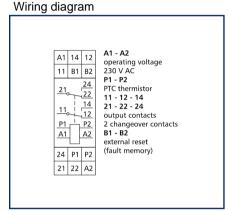
EAN 4250184121299

2023/06/20 Version: E

### Illustrations







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:
- 230 V AC
- · 2 changeover contacts (DPST)







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# **C** | Logline

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## TMR-E12 with error memory, 230 V AC, 2 changeover contacts

P/N 1103160522

EAN 4250184121299

2023/06/20 Version: F

	Version	
Technical Data		
Supply		
Operating voltage	230 V AC -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 <sub>2</sub>	
Switching voltage (max.)	250 V	
Continuous Current	4 A	
Pick-up delay	10 ms	
Switching frequency	1200 switching cycles/h	
Mechanical life	3x10 <sup>7</sup> switching cycles	
Electrical life	1x10 <sup>5</sup> 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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## TMR-E12 with error memory, 230 V AC, 2 changeover contacts

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2023/06/20 Version: E

	Version. E
Technical Data	
Terminal blocks	
Wire cross section solid	0.2 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / AWG 22-12
Wire cross section multi	0.25 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / AWG 22-12
Wire cross section with wire ferrule	0.25 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / 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
Temperature range	
Operating	
Temperature - Operating °C	0 °C - 55 °C
Temperature - Operating °F	32 °F - 131 °F
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





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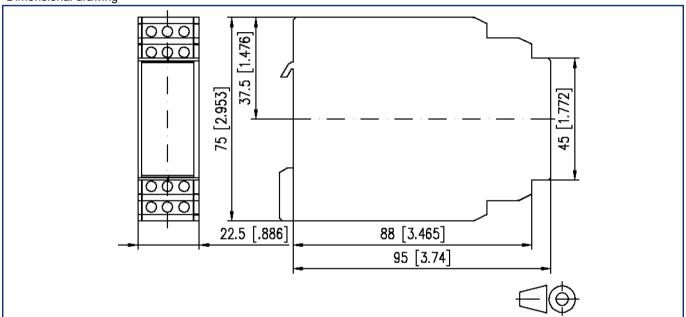
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#### Wiring diagram

A1	14	12	
11	В1	В2	
21	21 22		
11	_ 	14	
<u>P1</u>	<u> </u>	P2	
A	Ш	<u>A2</u>	
24	P1	P2	
21	22	A2	

A1 - A2 operating voltage 230 V AC P1 - P2 PTC thermistor

11 - 12 - 14

21 - 22 - 24

output contacts

2 changeover contacts

B1 - B2

external reset

(fault memory)







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