

Data sheet

RM1-I 24 V DC

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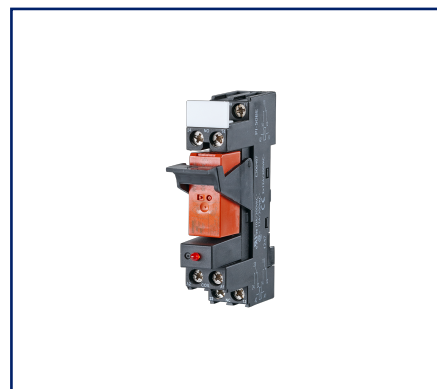
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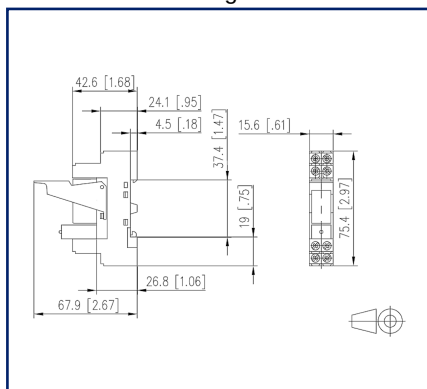
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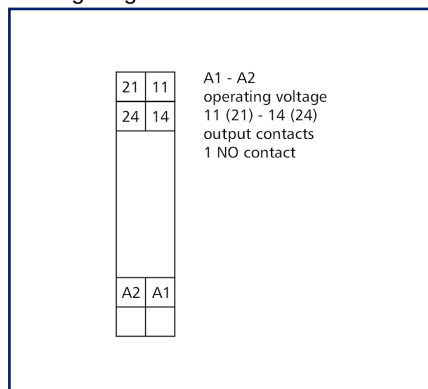
Illustrations



Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

Product specification

Relay module for large loads and high inrush currents such as LED lighting systems and lamp loads for electrical isolation between logic and load.

- Inrush relays for large loads and high inrush currents
- Connection with screw-type terminals
- Socket 2 storeys
- Pluggable relay
- With labeling field, socket, bracket and LED-module



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Technical Data

Supply

Operating voltage	24 V DC
Power consumption (max.)	17 mA
Power consumption coil	1.44 kOhm
Nominal power coil	0.4 W

Outputs

Contacts	1 normally open contact
Contact material	AgSnO ₂ + W (leading tungsten contact)
Switching voltage (max.)	250 V AC
Switching load (min.)	5 V DC / 10 mA
Switching capacity AC-1	4000 VA
Switch-on current	165 A
Continuous Current	16 A
Switching frequency	360 switching cycles/h
Breaking capacity (resistive load)	
Mechanical life	5x10 ⁶ switching cycles
Electrical life	5x10 ³ switching cycles
Test voltage coil / contact	5,000 V _{eff}
Test voltage open contact	1,000 V _{eff}
Indicator	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)	15.5 mm x 75 mm x 65 mm
Dimension (W x H x D)	0.61 in. x 2.953 in. x 2.559 in.
Weight	95 g
Mounting style	Standard rail TH35
Mounting position	any



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Technical Data

Housing	
Apposition	without distance
Connection type	Screw type terminal blocks
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	
Color	black
Climatic Data	
Operating	
Temperature - Operating °C	-20 °C - 55 °C
Temperature - Operating °F	-4 °F - 131 °F
Relative humidity	max. 85 % non-condensing
Storage	
Temperature - Storage °C	-25 °C - 70 °C
Temperature - Storage °F	-13 °F - 158 °F
Power loss	
Power loss (typical)	2 W
Classifications	
ETIM 7.0	EC001437
ETIM 8.0	EC001437
ETIM 9.0	EC001437
ETIM 10.0	EC001437
Application note	

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).



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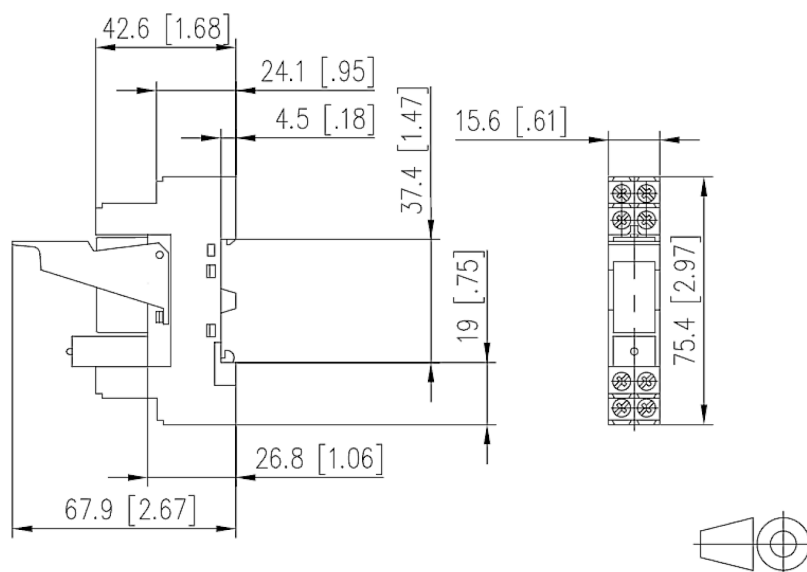
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Dimensional drawing



Wiring diagram

21	11
24	14
A2	A1

A1 - A2
operating voltage
11 (21) - 14 (24)
output contacts
1 NO contact



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Circuit diagram

