

EMG 17-OV-230AC/ 48DC/2 - Solid-state relay module



2942823

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Solid-state relay interface designed to prevent interference on the control side, input: 230 V AC, output: 48 V DC/2 A

The figure shows version EMG 17-OV-24DC/ 48DC/2

Your advantages

- Use of AC output cards, resulting in residual AC currents
- Resistant to interference currents
- Applications with long control lines
- High relay release voltage

Commercial data

Item number	2942823
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK61C2
GTIN	4017918080877
Weight per piece (including packing)	91.84 g
Weight per piece (excluding packing)	91.84 g
Customs tariff number	85364900
Country of origin	DE

Technical data

Product properties

Product type	Solid-state relay module
Application	Filter to prevent interference
Operating mode	100% operating factor

Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	15.09.2025
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Electrical properties

Test voltage (Input/output)	3.5 kV AC (Input/output)
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Input data

Nominal input voltage U_N	230 V AC
Input voltage range in reference to U_N	0.8 ... 1.1
Input voltage range	184 V AC ... 253 V AC
Switching threshold "0" signal, voltage	≤ 155 V AC
Switching threshold "1" signal voltage	≥ 180 V AC
Typical input current at U_N	9 mA
Typical response time	25 ms (at $U_N = 24$ V AC)
Typical turn-off time	35 ms (at $U_N = 24$ V AC)
Status display	LED (yellow)
Protective circuit	Reverse polarity protection; Polarity protection diode
Transmission frequency	3 Hz

Output data

Design of digital output	electronic
Output nominal voltage	48 V DC
Output voltage range	12 V DC ... 48 V DC
Limiting continuous current	2 A (see derating curve)
Maximum inrush current	5 A ($t = 1$ s)
Peak offstate voltage	60 V DC (Collector-emitter reverse voltage)
Voltage drop at max. limiting continuous current	1.1 V
Output circuit	3-conductor, ground-referenced
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection; Suppressor diode

Connection data

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Input side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12

Output side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12

Dimensions

Width	17.5 mm
Height	75 mm
Depth	102 mm

Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-10 °C ... 55 °C
Ambient temperature (storage/transport)	-10 °C ... 70 °C

Standards and regulations

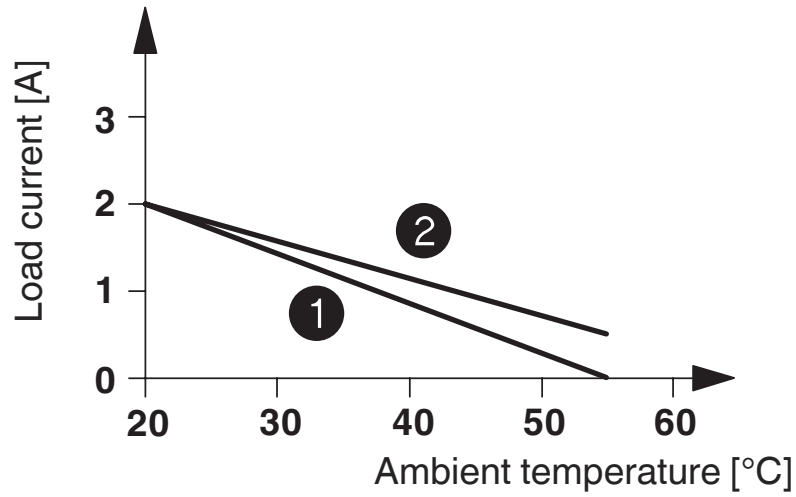
Standards/regulations	IEC 60664
	EN 50178

Mounting

Assembly note	Mounted in rows with zero spacing: Horizontal/not in rows: Any
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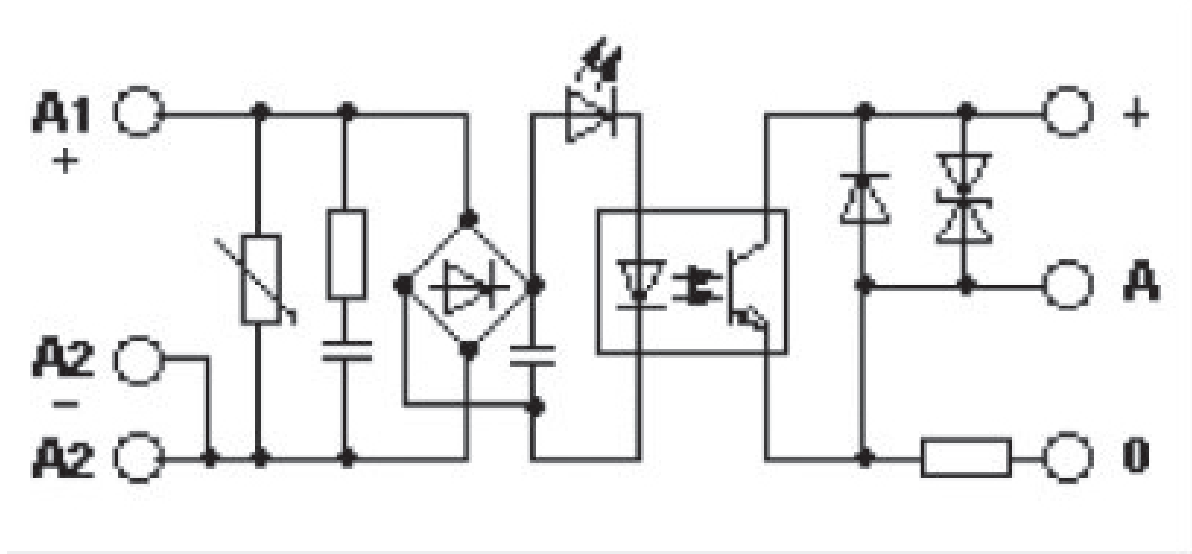
Drawings

Diagram



- ① In rows with zero spacing
- ② stand-alone device

Circuit diagram



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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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