

# 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	01.04.2026
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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	$\leq 155$ V AC
Switching threshold "1" signal voltage	$\geq 180$ 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 <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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 <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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

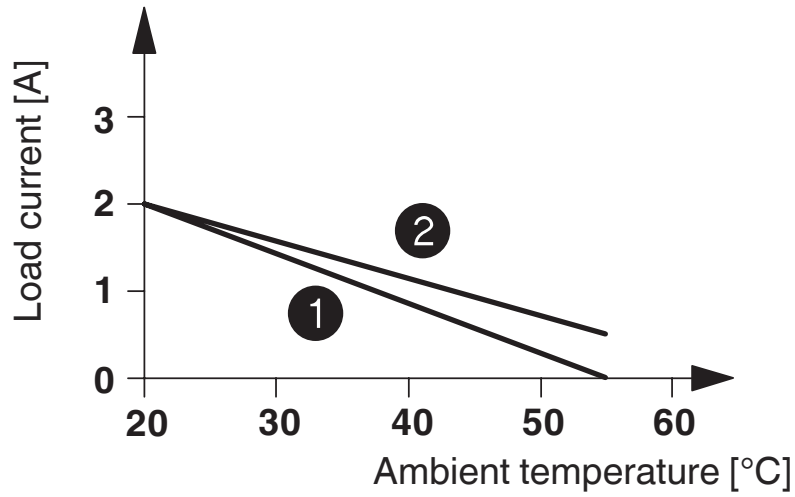
Standards/regulations	IEC 60664
	EN 50178

## 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



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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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)