

# Solid-state relay module - EMG 10-OE-230AC/48DC/100/SO218 - 2311700

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Input solid-state relay, with LED and protective circuit in input and output circuits, input: 230 V AC, output: 4 - 48 V DC/max. 35 mA, customer-specific version for 50 Hz triggering

The figure shows version EMG 10-OE, with DC voltage output, max.100 mA



## Key Commercial Data

Packing unit	10 pc
Minimum order quantity	50 pc
GTIN	 4 046356 287326
GTIN	4046356287326

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Width	10 mm
Height	75 mm
Depth	102 mm

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
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### Input data

Nominal input voltage $U_N$	230 V AC
Input voltage range in reference to $U_N$	0.9 ... 1.1
Input voltage range	207 V AC ... 253 V AC

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## Technical data

### Input data

Typical input current at $U_N$	3 mA
Operating voltage display	Yellow LED
Type of protection	Reverse polarity protection
	Surge protection
Protective circuit/component	Polarity protection diode
Transmission frequency	50 Hz

### Output data

Output nominal voltage	48 V DC
Output voltage range	4 V DC ... 48 V DC
Limiting continuous current	35 mA
Voltage drop at max. limiting continuous current	0.9 V
Output circuit	2-wire, floating
Type of protection	Reverse polarity protection
	Surge protection
Protective circuit/component	Polarity protection diode

### Connection data, input side

Connection name	Input side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	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

### Connection data, output side

Connection name	Output side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	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

### General

Test voltage input/output	3.5 kV AC
Mounting position	any
Standards/regulations	DIN VDE 0110
	DIN VDE 0106-101
Degree of pollution	2
Overvoltage category	III

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### Standards and Regulations

Standards/regulations	DIN VDE 0110
	DIN VDE 0106-101
Degree of pollution	2
Overvoltage category	III

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Approvals

### Approvals

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#### Approvals

EAC

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#### Ex Approvals

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### Approval details

EAC		RU C- DE.A*30.B.01082
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