

# Solid-state relay module - EMG 17-OV- 24DC/ 60DC/3 - 2954154

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Power solid-state relay, with LED and protective circuit in input and output circuits, input: 24 V DC, output: 12 - 60 V DC/max. 3 A

The illustration shows version EMG 17-OV, with DC voltage output, max. 3 A

## Product Features

- RC protective circuit
- EMG-17-OV, short-circuit-proof with indicator LED
- Protective circuit in input and output
- Status indicator
- Zero voltage switch
- Electrical isolation



## Key commercial data

package_quantity	10
GTIN	4017918084813

## Technical data

Note:

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

Width	17.5 mm
Height	75 mm
Depth	102 mm

## Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Degree of protection	IP20

## Input data

Nominal input voltage $U_N$	24 V DC
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## Technical data

### Input data

Input voltage range in reference to $U_N$	0.8 ... 1.2
Switching threshold "0" signal in reference to $U_N$	$\leq 0.4$
Switching threshold "1" signal in reference to $U_N$	$\geq 0.8$
Typical input current at $U_N$	7 mA
Typical response time	20 $\mu$ s
Typical turn-off time	200 $\mu$ s
Status display	Yellow LED
Type of protection	Protection against polarity reversal
Type of protection	Surge protection
Protective circuit/component	Polarity protection diode
Transmission frequency	500 Hz

### Output data

Output nominal voltage	60 V DC
Output voltage range	12 V DC ... 60 V DC
Limiting continuous current	3 A (see derating curve)
Peak offstate voltage	60 V DC
Voltage drop at max. limiting continuous current	1.2 V
Output circuit	2-wire, floating
Type of protection	Protection against polarity reversal
Type of protection	Surge protection
Protective circuit/component	Polarity protection diode

### Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

### General

Test voltage input/output	3.5 kV AC
Test voltage input/output	3.5 kV AC
Mounting position	Any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Inflammability class according to UL 94	V0
Standards/regulations	IEC 60664
Standards/regulations	EN 50178

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## Technical data

### General

<b>Standards/regulations</b>	IEC 62103
<b>Rated surge voltage / insulation</b>	Basic insulation

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27371102
<b>eCl@ss 4.1</b>	27371102
<b>eCl@ss 5.0</b>	27371001
<b>eCl@ss 5.1</b>	27371001
<b>eCl@ss 6.0</b>	27371001
<b>eCl@ss 7.0</b>	27371001
<b>eCl@ss 8.0</b>	27371001

### ETIM

<b>ETIM 2.0</b>	EC001504
<b>ETIM 3.0</b>	EC001504
<b>ETIM 4.0</b>	EC001504
<b>ETIM 5.0</b>	EC001504

### UNSPSC

<b>UNSPSC 6.01</b>	30211916
<b>UNSPSC 7.0901</b>	39121542
<b>UNSPSC 11</b>	39121542
<b>UNSPSC 12.01</b>	39121542
<b>UNSPSC 13.2</b>	39121542

## approvals

GOST /

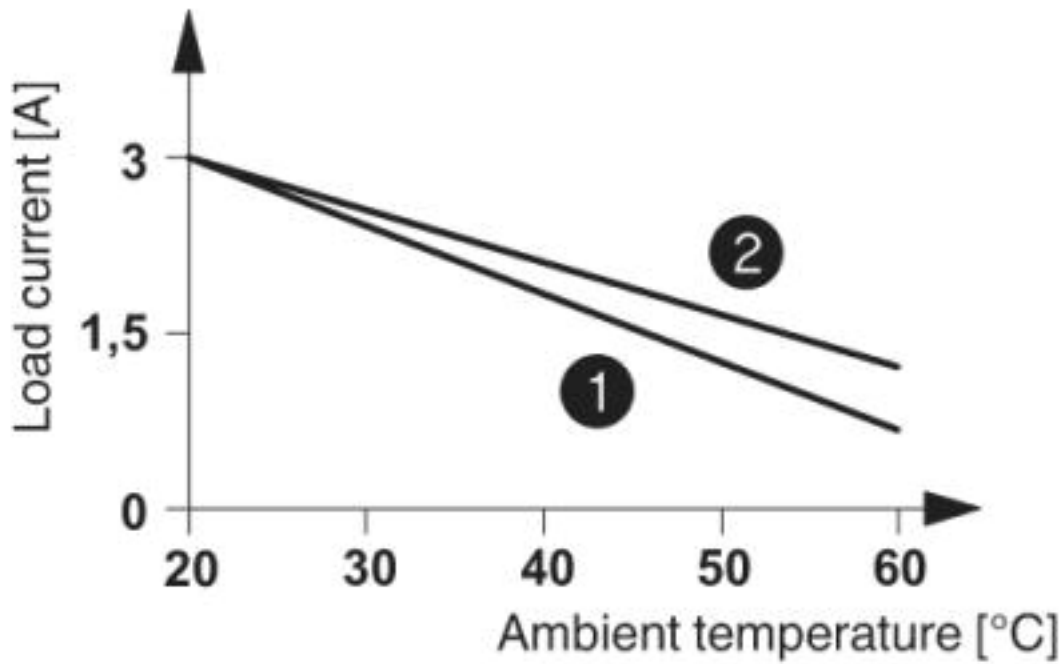
### Approval details



## Drawings

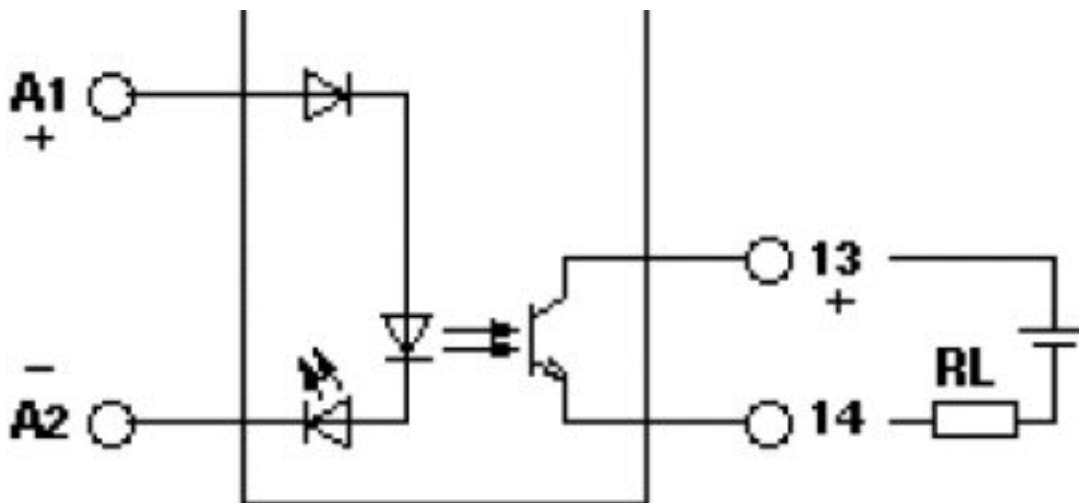
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Diagram



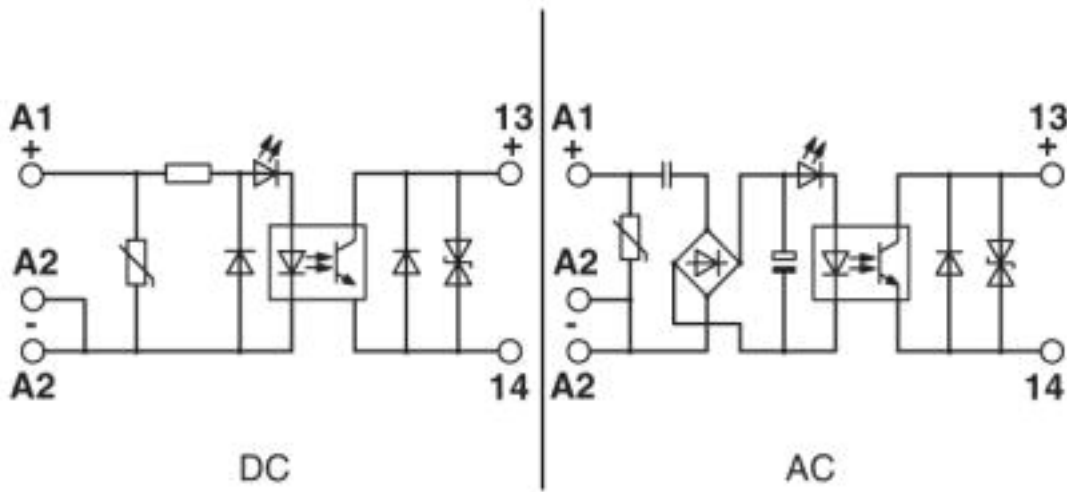
- 1 In rows with zero spacing
- 2 stand-alone device

Circuit diagram



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Circuit diagram



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