

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



2954167

<https://www.phoenixcontact.com/us/products/2954167>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Power solid-state relay, with LED and protective circuit in input and output circuits, input: 48 - 60 V DC, output: 12 - 60 V DC/max. 3 A

## Commercial data

Item number	2954167
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	DK61C1
GTIN	4017918084820
Weight per piece (including packing)	88.95 g
Weight per piece (excluding packing)	88.95 g
Customs tariff number	85364190
Country of origin	DE

## Technical data

### Product properties

Product type	Solid-state relay module
Application	Output function
Operating mode	100% operating factor

### Insulation characteristics

Insulation	Basic insulation
------------	------------------

### Data management status

Date of last data management	15.09.2025
------------------------------	------------

### Electrical properties

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

### Input data

Nominal input voltage $U_N$	60 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Input voltage range	48 V DC ... 72 V DC
Switching threshold "0" signal in reference to $U_N$	$\leq 0.4$
Switching threshold "1" signal in reference to $U_N$	$\geq 0.64$
Typical input current at $U_N$	6.5 mA
Typical response time	20 $\mu$ s
Typical turn-off time	200 $\mu$ s
Status display	LED (yellow)
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection
Transmission frequency	500 Hz

### Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
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-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection

### Connection data

#### Input side

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



2954167

<https://www.phoenixcontact.com/us/products/2954167>

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)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

## Standards and regulations

Standards/regulations	IEC 60664
	EN 50178

## Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

## Drawings

Diagram



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

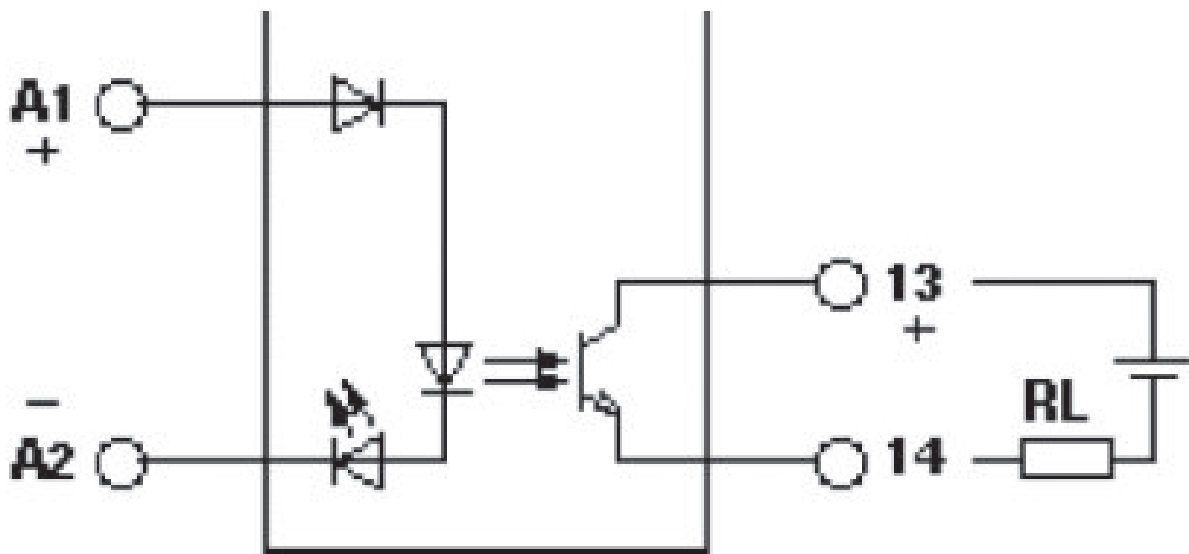
# EMG 17-OV- 60DC/ 60DC/3 - Solid-state relay module



2954167

<https://www.phoenixcontact.com/us/products/2954167>

Circuit diagram



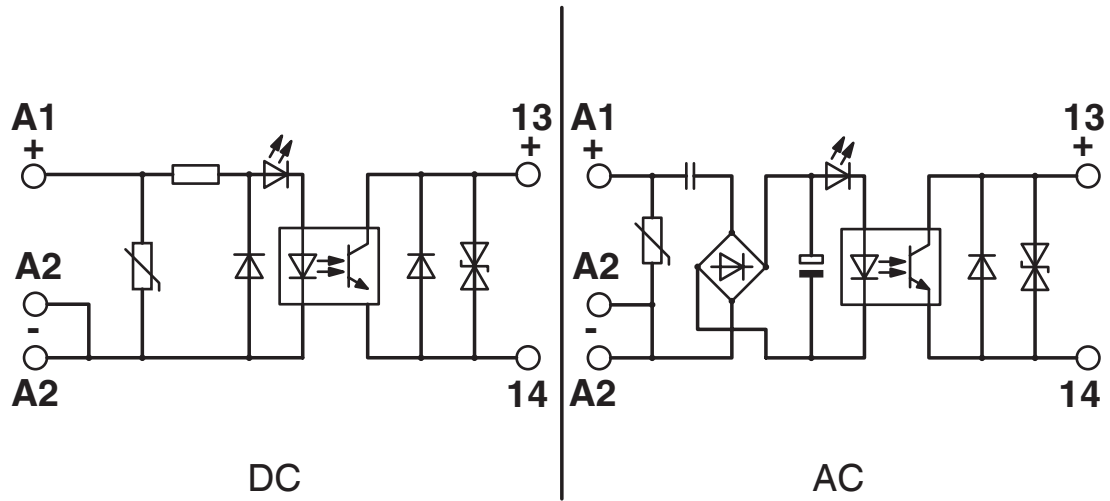
# EMG 17-OV- 60DC/ 60DC/3 - Solid-state relay module



2954167

<https://www.phoenixcontact.com/us/products/2954167>

Circuit diagram



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



2954167

<https://www.phoenixcontact.com/us/products/2954167>

## Classifications

### ECLASS

ECLASS-13.0

27371604

### ETIM

ETIM 9.0

EC001504

### UNSPSC

UNSPSC 21.0

39122300

2954167

<https://www.phoenixcontact.com/us/products/2954167>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### 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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	4f880003-b80b-401b-b1c0-cc6b9bd4c95a

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

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