

# EMG 17-REL/SG-B 60/21/M - Relay module



2953948

<https://www.phoenixcontact.com/us/products/2953948>

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Relay module, with soldered-in remanence miniature switching relay, with negative switching diode wiring, contacts (AgAu): small to large loads, 1 changeover contact, input voltage 60 V DC

The figure shows version EMG 17-REL, with soldered-in Latching miniature switching relay

## Commercial data

Item number	2953948
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK6142
GTIN	4017918084684
Weight per piece (including packing)	52.8 g
Weight per piece (excluding packing)	52.8 g
Customs tariff number	85364190
Country of origin	DE

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## Technical data

### Product properties

Product type	Relay Module
Application	Universal
Operating mode	100% operating factor (observe max. input pulse length)
Mechanical service life	approx. $3 \times 10^7$ cycles

### Insulation characteristics

Overvoltage category	III
Pollution degree	2

### Data management status

Date of last data management	12.09.2025
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### Electrical properties

Maximum power dissipation for nominal condition	1.68 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)

### Input data

#### Coil side

Nominal input voltage $U_N$	60 V DC
Input voltage range	48 V DC ... 66 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.1
Typical input current at $U_N$	28 mA
Typical response time	10 ms
Typical release time	10 ms
Pulse time range	30 ms ... 5 s
Protective circuit	Freewheeling diode; Freewheeling diode Reverse polarity protection; Polarity protection diode

### Output data

#### Switching

Contact switching type	Single contact, 1 changeover contact
Type of switch contact	Single contact
Contact material	AgAu
Maximum switching voltage	24 V AC/DC
Limiting continuous current	0.5 A
Maximum inrush current	0.2 A
Interrupting rating (ohmic load) max.	5 W (at 24 V DC) 5 VA (for 24 V AC)

#### Switching: when the gold layer is destroyed

Maximum switching voltage	250 V AC/DC
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Limiting continuous current	5 A
Maximum inrush current	6 A
Interrupting rating (ohmic load) max.	120 W (at 24 V DC)
	40 W (at 48 V DC)
	35 MW (at 60 V DC)
	30 W (at 110 V DC)
	55 W (at 220 V DC)
	1250 VA (for 250 V AC)

## Connection data

### Coil 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

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Connection method	Screw connection
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## Dimensions

Width	17.5 mm
Height	75 mm
Depth	62.5 mm

## Material specifications

Color	green (RAL 6021)
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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

## Standards and regulations

Standards/regulations	IEC 60664
	EN 50178

## Mounting

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Assembly note	in rows with zero spacing
Mounting position	any

# EMG 17-REL/SG-B 60/21/M - Relay module

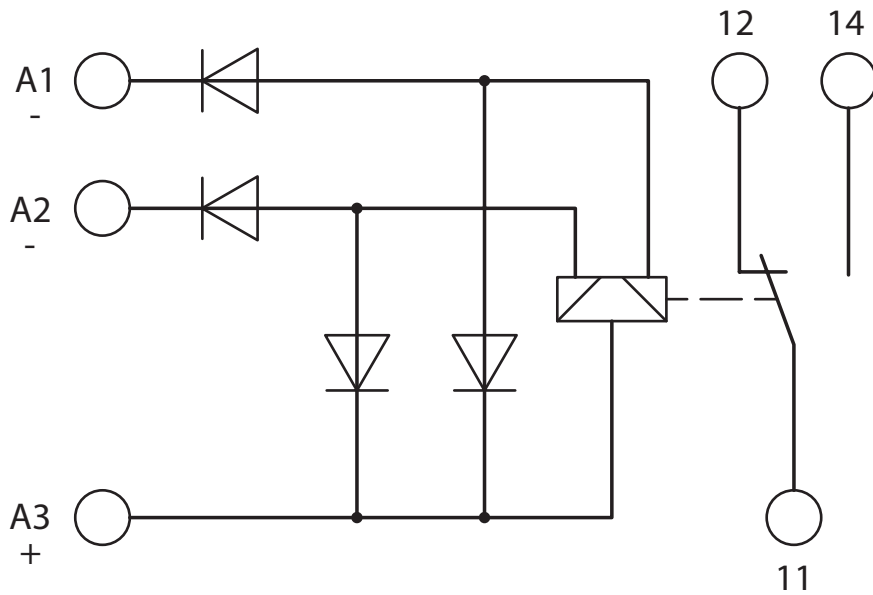


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## Drawings

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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