

# EMG 17-REL/KSR-G 24/2E/SO38 - Relay



2941646  
<https://www.phoenixcontact.com/us/products/2941646>

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Relay module for high continuous currents, with soldered-in relay, contacts (AgSnO): medium to large loads, 1 N/O contact, input voltage 24 V DC, limiting continuous current 10 A, with 2 inputs for manual/automatic

## Your advantages

- Can be snapped onto standard EN DIN rails
- Clear terminal marking using Phoenix Contact labeling material
- Modular DIN-rail mountable EMG housing with 17.5 mm design width
- User-friendly plug-in housing
- Easy maintenance

## Commercial data

Item number	2941646
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	DK61CY
Catalog page	Page 449 (C-5-2019)
GTIN	4017918080556
Weight per piece (including packing)	58.06 g
Weight per piece (excluding packing)	58.06 g
Customs tariff number	85364190
Country of origin	DE

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## Technical data

### Notes

#### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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### Product properties

Product type	Relay Module
Product family	EMG
Application	high inrush currents
Operating mode	100% operating factor
Mechanical service life	3x 10 <sup>7</sup> cycles

#### Insulation characteristics

Insulation	safe isolation
Overvoltage category	III
Pollution degree	2

#### Data management status

Date of last data management	28.03.2025
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### Electrical properties

Maximum power dissipation for nominal condition	0.55 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)

### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range	21.6 V DC ... 26.4 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U <sub>N</sub>	23 mA
Typical response time	9 ms
Typical release time	10 ms
Protective circuit	Freewheeling diode; Freewheeling diode Reverse polarity protection; Polarity protection diode
Operating voltage display	Automatic: Yellow LED, Manual: Red LED

### Output data

#### Switching

Contact switching type	1 N/O contact
Type of switch contact	Single contact

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Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Limiting continuous current	10 A
Maximum inrush current	120 A (20 ms)
Interrupting rating (ohmic load) max.	240 W (at 24 V DC)
	120 W (at 48 V DC)
	85 W (at 60 V DC)
	70 W (at 110 V DC)
	90 W (at 220 V DC)
	100 W (for 250 V DC)
	2500 VA (for 250 V AC)
Interrupting rating (lamp load) max.	on request

## 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
Tightening torque	0.5 Nm ... 0.6 Nm

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Connection method	Screw connection
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Conductor cross section AWG	24 ... 12

## 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

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## Standards and regulations

Standards/regulations	IEC 60664
	EN 50178

## Mounting

Mounting type	DIN rail mounting
Mounting position	any

# EMG 17-REL/KSR-G 24/2E/SO38 - Relay

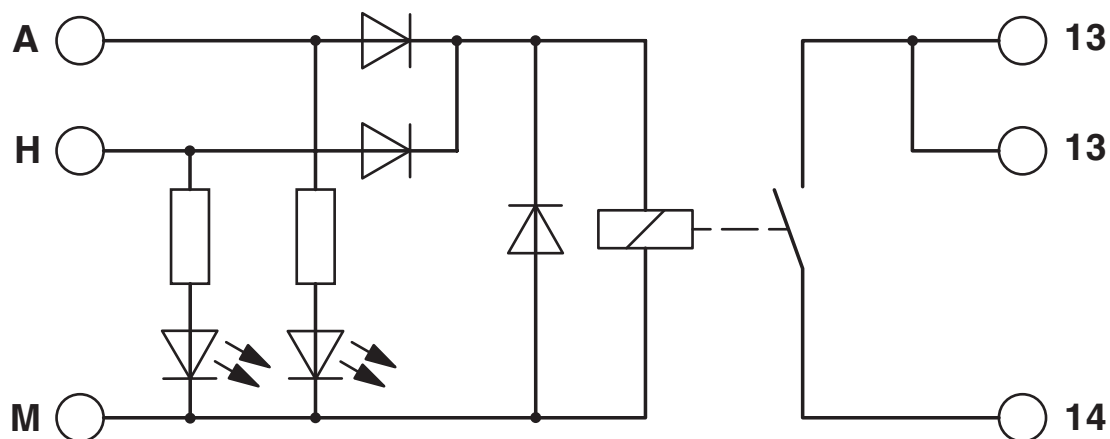


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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2941646>



**EAC**

Approval ID: RU\*DE\*08.B.01841/19

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## Classifications

### ECLASS

ECLASS-13.0	27371601
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### ETIM

ETIM 9.0	EC001437
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental product compliance

## EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 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.)	Lead(CAS: 7439-92-1)
SCIP	f5e99c25-03b1-4069-bba7-3ed2d025fbd6