

## Functional block - EMG 17-REL/KSR-G 24/2E/SO38 - 2941646

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




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

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



### Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 080556
GTIN	4017918080556

### Technical data

#### Note

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

#### Dimensions

Width	17.5 mm
Height	75 mm
Depth	62.5 mm

#### Ambient conditions

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

#### Coil side

## Functional block - EMG 17-REL/KSR-G 24/2E/SO38 - 2941646

### Technical data

#### Coil side

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.9 ... 1.1
Typical input current at $U_N$	23 mA
Typical response time	9 ms
Typical release time	10 ms
Protective circuit	Free-wheeling diode Damping diode
	Reverse polarity protection Polarity protection diode
Operating voltage display	Automatic: Yellow LED, Manual: Red LED
Power dissipation for nominal condition	0.55 W

#### Contact side

Contact type	Single contact, 1 N/O contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Maximum inrush current	120 A (20 ms)
Limiting continuous current	10 A
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

#### General

Test voltage relay winding/relay contact	4 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	$3 \times 10^7$ cycles
Mounting position	any

#### Connection data input side

Connection name	Coil 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	Contact side
-----------------	--------------

# Functional block - EMG 17-REL/KSR-G 24/2E/SO38 - 2941646

## Technical data

### Connection data 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

### Standards and Regulations

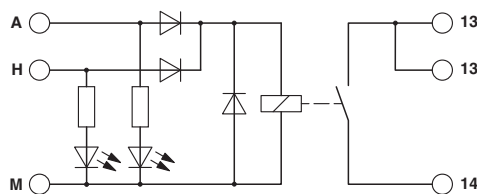
Standards/regulations	IEC 60664
	EN 50178
Insulation	safe isolation
Degree of pollution	2
Overvoltage category	III

### Environmental Product Compliance

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

## Drawings

Circuit diagram



## Approvals

Approvals

---

Approvals

EAC

---

Ex Approvals

---

Approval details

## Functional block - EMG 17-REL/KSR-G 24/2E/SO38 - 2941646

### Approvals

EAC



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

Phoenix Contact 2019 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>