

# EMG 12-REL/KSR- 24/2 - Relay module



2949208

<https://www.phoenixcontact.com/us/products/2949208>

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Relay module, with soldered-in miniature switching relay, contact (AgNi): small to large loads, 1 N/C contact, 24 V AC/DC input voltage

## Commercial data

Item number	2949208
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK6142
GTIN	4017918083700
Weight per piece (including packing)	46.36 g
Weight per piece (excluding packing)	46.36 g
Customs tariff number	85364190
Country of origin	DE

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## Technical data

### Product properties

Product type	Relay Module
Operating mode	100% operating factor
Mechanical service life	approx. $2 \times 10^7$ cycles

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	12.09.2025
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### Electrical properties

Test voltage (Winding/contact)	4 kV (50 Hz, 1 min., winding/contact)
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Air clearances and creepage distances between the power circuits

Rated insulation voltage	260 V AC
Rated surge voltage	4 kV

### Input data

Coil side

Nominal input voltage $U_N$	24 V AC/DC
Input voltage range in reference to $U_N$	0.8 ... 1.1
Drive and function	monostable
Typical input current at $U_N$	21 mA
Typical response time	7 ms
Typical release time	11 ms
Protective circuit	Bridge rectifier
Status display	LED (yellow)

### Output data

Switching

Contact switching type	1 N/C contact
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V
Limiting continuous current	6 A
Maximum inrush current	8 A
Min. switching current	100 mA
	140 W (24 V DC)

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Interrupting rating (ohmic load) max.	60 W (48 V DC)
	45 W (60 V DC)
	35 W (110 V DC)
	55 W (220 V DC)
	1500 VA (250 V AC)

## Connection data

Connection method	Screw connection
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	12 mm
Height	65.5 mm
Depth	75 mm

## Material specifications

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

### Ambient conditions

Degree of protection (Relay)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-20 °C ... 40 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

## Standards and regulations

### Air clearances and creepage distances between the power circuits

Standards/regulations	DIN EN 50178
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## Mounting

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

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## Classifications

### UNSPSC

UNSPSC 21.0	39122334
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)

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