

# EMG 25-REL/KSR- 24/21-21/SO16 - Relay module



2942700

<https://www.phoenixcontact.com/us/products/2942700>

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.



Relay module, with soldered-in miniature switching relay, contact (AgNi): medium to large loads, 2 changeover contacts, input voltage 24 V AC/DC

## Commercial data

Item number	2942700
Packing unit	10 pc
Minimum order quantity	10 pc
Product key	DK61Y1
GTIN	4017918278670
Weight per piece (including packing)	70.7 g
Weight per piece (excluding packing)	70.7 g
Country of origin	DE

2942700

<https://www.phoenixcontact.com/us/products/2942700>

## Technical data

### Notes

#### Utilization restriction

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

### Product properties

Product type	Relay Module
Mechanical service life	10x 10 <sup>6</sup> cycles

#### Insulation characteristics: Air clearances and creepage distances, input/output

Insulation	Reinforced insulation
Overvoltage category	III
Pollution degree	2

#### Insulation characteristics: Air and creepage distances, output/output

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

#### Data management status

Date of last data management	01.04.2026
------------------------------	------------

### Electrical properties

Maximum power dissipation for nominal condition	0.67 W
---	--------

#### Air clearances and creepage distances, input/output

Rated insulation voltage	260 V
Rated surge voltage	6 kV (1.2/50 µs)

#### Air and creepage distances, output/output

Rated insulation voltage	260 V
Rated surge voltage	4 kV (1.2/50 µs)

### Input data

#### Coil side

Nominal input voltage $U_N$	24 V AC/DC
Input voltage range	21.6 V AC/DC ... 26.4 V AC/DC (20 °C)
Typical input current at $U_N$	28 mA
Typical response time	13 ms
Typical release time	10 ms
Protective circuit	Bridge rectifier; Bridge rectifier

### Output data

# EMG 25-REL/KSR- 24/21-21/SO16 - Relay module



2942700

<https://www.phoenixcontact.com/us/products/2942700>

## Switching

Contact switching type	Single contact, 2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	1500 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

### Contact 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

### Item dimensions

Width	47.5 mm
Height	75 mm
Depth	25 mm

## Material specifications

Color	green (RAL 6021)
-------	------------------

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP00
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-20 °C ... 50 °C
Altitude	≤ 2000 m

## Standards and regulations

Air clearances and creepage distances, input/output

# EMG 25-REL/KSR- 24/21-21/SO16 - Relay module



2942700

<https://www.phoenixcontact.com/us/products/2942700>

Standards/regulations	DIN EN 50178: 1998-04
Air and creepage distances, output/output	
Standards/regulations	DIN EN 50178: 1998-04

## Mounting

Mounting type	DIN rail mounting
Mounting position	any

# EMG 25-REL/KSR- 24/21-21/SO16 - Relay module



2942700

<https://www.phoenixcontact.com/us/products/2942700>

## Classifications

### ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

### ETIM

ETIM 10.0	EC001437
-----------	----------

### UNSPSC

UNSPSC 21.0	39122300
-------------	----------

2942700

<https://www.phoenixcontact.com/us/products/2942700>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 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)
-------------------------------------	----------------------

### EF3.1 Climate Change

CO2e kg	2.168 kg CO2e
---------	---------------

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)