

# EMG 10-REL/KSR-G 24/ 1-LCU - Relay module



2942807

<https://www.phoenixcontact.com/gb/products/2942807>

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, contacts (AgNi): Medium to large loads, 1 N/O contact, input voltage 24 V DC, turned by 180°

## Your advantages

- Integrated input circuit and interference suppression circuit

## Commercial data

Item number	2942807
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	DK61C2
Product key	DK61C2
GTIN	4017918080853
Weight per piece (including packing)	36.86 g
Weight per piece (excluding packing)	36.86 g
Customs tariff number	85364190
Country of origin	DE

## Technical data

### Notes

#### Utilization restriction

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

### Product properties

Product family	EMG
Application	Universal
Operating mode	100% operating factor
Mechanical service life	approx. $2 \times 10^7$ cycles

#### Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

#### Data management status

Date of last data management	08.12.2025
------------------------------	------------

### Electrical properties

Maximum power dissipation for nominal condition	0.5 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)

### Input data

#### Coil side

Nominal input voltage $U_N$	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 $U_N$	21 mA
Typical response time	7 ms
Typical release time	11 ms
Protective circuit	Reverse polarity protection; Polarity protection diode Freewheeling diode; Freewheeling diode
Operating voltage display	Yellow LED

### Output data

#### Switching

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

# EMG 10-REL/KSR-G 24/ 1-LCU - Relay module



2942807

<https://www.phoenixcontact.com/gb/products/2942807>

Maximum switching voltage	250 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	8 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	60 W (at 48 V DC)
	45 W (at 60 V DC)
	35 W (at 110 V DC)
	55 W (at 220 V DC)
	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

Width	10.6 mm
Height	75 mm
Depth	53.5 mm

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 40 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

## Standards and regulations

Standards/regulations	IEC 60664
	EN 50178

# EMG 10-REL/KSR-G 24/ 1-LCU - Relay module



2942807

<https://www.phoenixcontact.com/gb/products/2942807>

## Mounting

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

# EMG 10-REL/KSR-G 24/ 1-LCU - Relay module

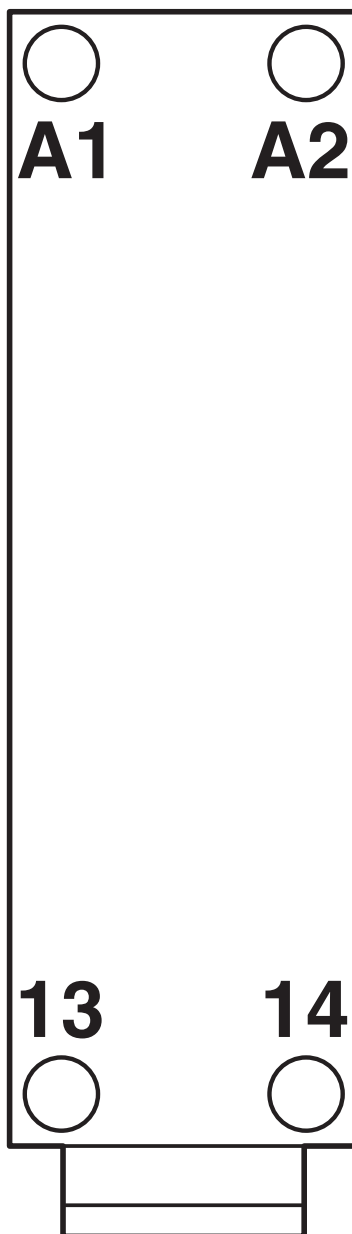
2942807

<https://www.phoenixcontact.com/gb/products/2942807>



## Drawings

Connection diagram



# EMG 10-REL/KSR-G 24/ 1-LCU - Relay module

2942807

<https://www.phoenixcontact.com/gb/products/2942807>



Circuit diagram



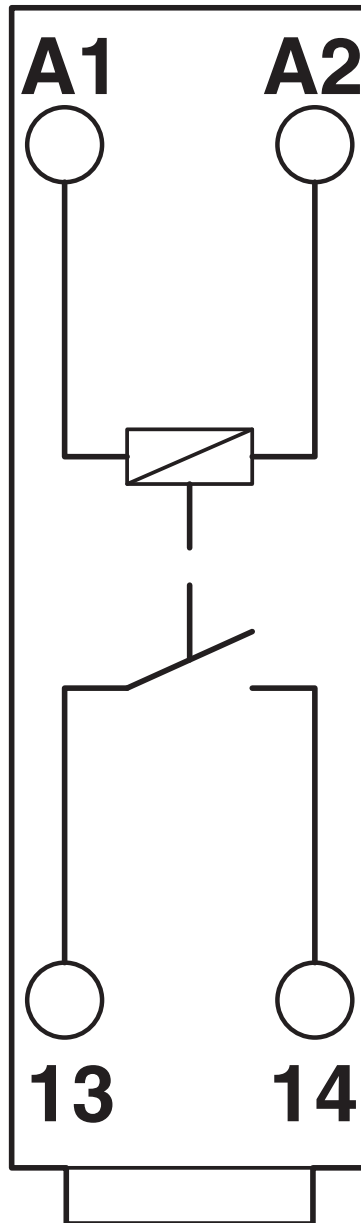
# EMG 10-REL/KSR-G 24/ 1-LCU - Relay module

2942807

<https://www.phoenixcontact.com/gb/products/2942807>



Circuit diagram



# EMG 10-REL/KSR-G 24/ 1-LCU - Relay module



2942807

<https://www.phoenixcontact.com/gb/products/2942807>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2942807>



**cUL Recognized**

Approval ID: E238705



**UL Recognized**

Approval ID: E238705



**EAC**

Approval ID: RU\*C-DE.\*08.B.00010

# EMG 10-REL/KSR-G 24/ 1-LCU - Relay module



2942807

<https://www.phoenixcontact.com/gb/products/2942807>

## Classifications

### ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

### ETIM

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

### UNSPSC

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

# EMG 10-REL/KSR-G 24/ 1-LCU - Relay module



2942807

<https://www.phoenixcontact.com/gb/products/2942807>

## 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	79ef411a-02ae-41d0-96fa-b91aafaa4b5a

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd  
Halesfield 13, Telford  
Shropshire, TF7 4PG  
01952 681700  
[info@phoenixcontact.co.uk](mailto:info@phoenixcontact.co.uk)