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

2942807

https://www.phoenixcontact.com/us/products/2942807

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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 | 1 pc |
| Sales key | C460 |
| 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 type | Relay Module |
| Product family | EMG |
| Application | Universal |
| Operating mode | 100% operating factor |
| Mechanical service life | approx. 2x $10^7$ cycles |

Insulation characteristics

| | |
|---|---|
| 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 | 0.5 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 |
| 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 mm² ... 4 mm² |
| Conductor cross-section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section AWG | 24 ... 12 |
| Tightening torque | 0.5 Nm ... 0.6 Nm |

Contact side

| | |
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| Conductor cross-section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section AWG | 24 ... 12 |

## Dimensions

Item 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

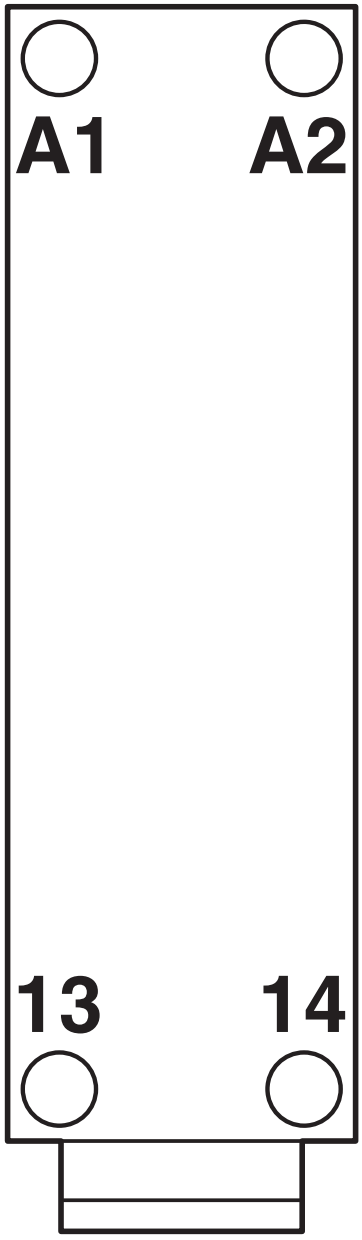
| | |
|---|---|
| Standards/regulations | IEC 60664 |
| | EN 50178 |

## Mounting

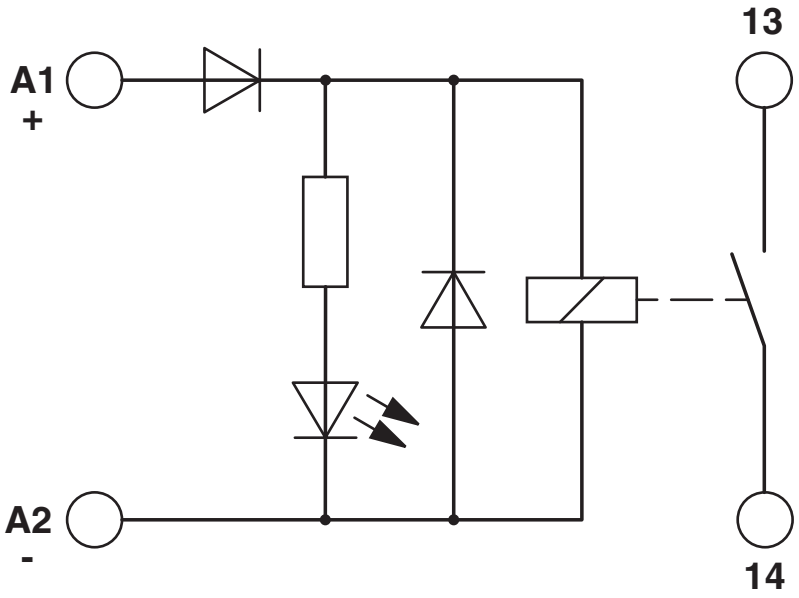
| | |
|---|---|
| Mounting type | DIN rail mounting |
| Assembly note | in rows with zero spacing |
| Mounting position | any |

## Drawings

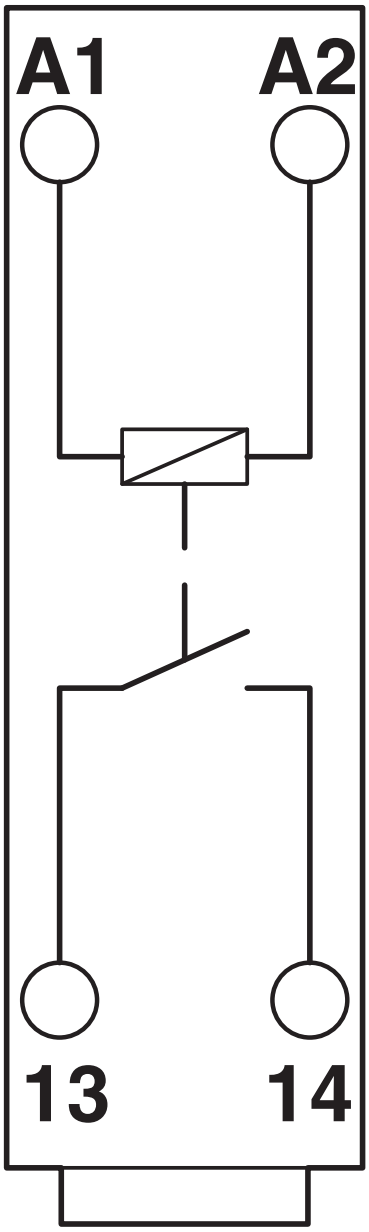
Connection diagram



Circuit diagram



Circuit diagram



## Approvals

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

**cUL Recognized**
Approval ID: E238705

**UL Recognized**
Approval ID: E238705

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27371601 |
| ECLASS-15.0 | 27371601 |

### ETIM

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

### UNSPSC

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

## 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 |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 1.028 kg CO2e |


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