

2940359

<https://www.phoenixcontact.com/us/products/2940359>

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, 1 changeover contact, input voltage 24 V DC, design rotated 180°

Your advantages

- Integrated input circuit and interference suppression circuit

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2940359       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C460          |
| Product key                          | DK61C2        |
| GTIN                                 | 4017918080051 |
| Weight per piece (including packing) | 40.3 g        |
| Weight per piece (excluding packing) | 40.181 g      |
| Customs tariff number                | 85364190      |
| Country of origin                    | DE            |

# EMG 10-REL/KSR-G 24/21-LCU - Relay module



2940359

<https://www.phoenixcontact.com/us/products/2940359>

## 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. $2 \times 10^7$ 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            | 19.2 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<br>Freewheeling diode; Freewheeling diode |
| Operating voltage display      | Yellow LED                                                                                       |

### Output data

#### Switching

|                        |                      |
|------------------------|----------------------|
| Contact switching type | 1 changeover contact |
| Type of switch contact | Double contact       |

# EMG 10-REL/KSR-G 24/21-LCU - Relay module



2940359

<https://www.phoenixcontact.com/us/products/2940359>

|                                       |                        |
|---------------------------------------|------------------------|
| 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)     |
|                                       | 53 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                                   |
| Tightening torque                | 0.5 Nm ... 0.6 Nm                           |

### 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  | 10.6 mm |
| Height | 75 mm   |
| Depth  | 62.5 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

# EMG 10-REL/KSR-G 24/21-LCU - Relay module



2940359

<https://www.phoenixcontact.com/us/products/2940359>

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

## Mounting

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

# EMG 10-REL/KSR-G 24/21-LCU - Relay module

2940359

<https://www.phoenixcontact.com/us/products/2940359>



## Drawings

Connection diagram



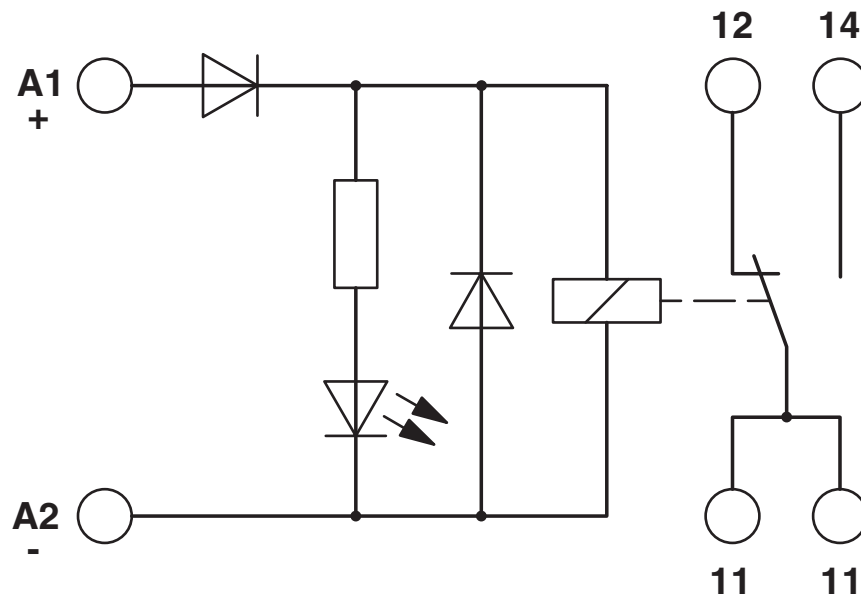
# EMG 10-REL/KSR-G 24/21-LCU - Relay module

2940359

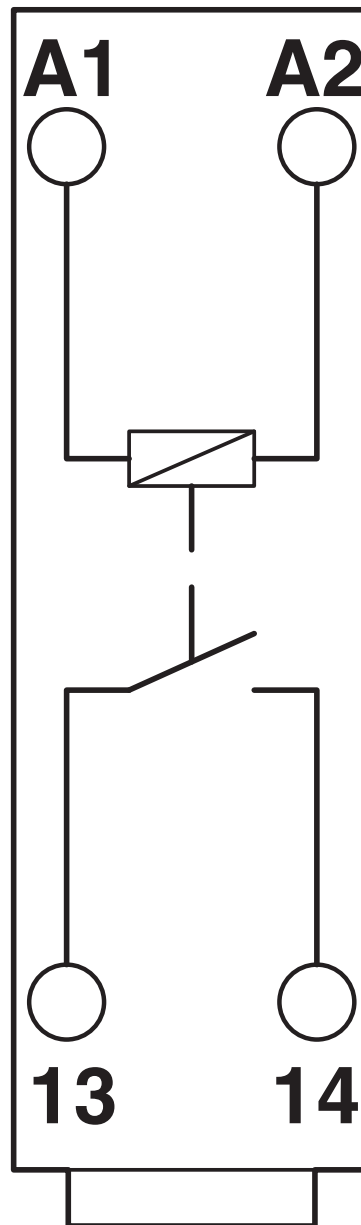
<https://www.phoenixcontact.com/us/products/2940359>



Circuit diagram



Circuit diagram



# EMG 10-REL/KSR-G 24/21-LCU - Relay module



2940359

<https://www.phoenixcontact.com/us/products/2940359>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2940359>



**cUL Recognized**

Approval ID: E238705



**UL Recognized**

Approval ID: E238705

# EMG 10-REL/KSR-G 24/21-LCU - Relay module



2940359

<https://www.phoenixcontact.com/us/products/2940359>

## 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                                | 94a4eee4-d971-4cf1-a444-30e2184e72ce |

### EF3.1 Climate Change

|         |              |
|---------|--------------|
| CO2e kg | 1.01 kg CO2e |
|---------|--------------|