

## Relay Module - EMG 10-REL/KSR-G 24/ 1-LCU - 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's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)

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°




The illustration shows version EMG 10-REL/KSR-G 24/1-LC, with soldered-in miniature switching relay

### Why buy this product

- Safe isolation according to DIN EN 50178 between coil and contact
- Integrated input circuit and interference suppression circuit



### Key commercial data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 10 pc                                                                                                   |
| GTIN                                 | <br>4 017918 080853 |
| Weight per Piece (excluding packing) | 36.86 g                                                                                                 |
| Custom tariff number                 | 85364190                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Note:

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

#### Dimensions

|        |         |
|--------|---------|
| Width  | 10.6 mm |
| Height | 75 mm   |
| Depth  | 53.5 mm |

#### Ambient conditions

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

# Relay Module - EMG 10-REL/KSR-G 24/ 1-LCU - 2942807

## Technical data

### Coil side

|                                           |                                                                |
|-------------------------------------------|----------------------------------------------------------------|
| Nominal input voltage $U_N$               | 24 V DC                                                        |
| Input voltage range in reference to $U_N$ | 0.8 ... 1.1                                                    |
| Nominal input current at $U_{IN}$         | 21 mA                                                          |
| Typical response time                     | 7 ms                                                           |
| Typical release time                      | 11 ms                                                          |
| Operating voltage display                 | Yellow LED                                                     |
| Protective circuit                        | Protection against polarity reversal Polarity protection diode |
|                                           | Free-wheeling diode Damping diode                              |

### Contact side

|                                       |                               |
|---------------------------------------|-------------------------------|
| Contact type                          | Single contact, 1 N/O contact |
| Contact material                      | AgNi                          |
| Maximum switching voltage             | 250 V AC/DC                   |
| Maximum inrush current                | 8 A                           |
| Limiting continuous current           | 6 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)        |

### General

|                                          |                                |
|------------------------------------------|--------------------------------|
| Test voltage relay winding/relay contact | 4 kV AC (50 Hz, 1 min.)        |
| Operating mode                           | 100% operating factor          |
| Mechanical service life                  | Approx. $2 \times 10^7$ cycles |
| Standards/regulations                    | IEC 60664                      |
|                                          | EN 50178                       |
|                                          | IEC 62103                      |
| Rated surge voltage / insulation         | Basic insulation               |
| Pollution degree                         | 2                              |
| Surge voltage category                   | III                            |
| Mounting position                        | any                            |
| Assembly instructions                    | In rows with zero spacing      |

### Connection data

|                                        |                     |
|----------------------------------------|---------------------|
| Connection method                      | Screw connection    |
| Conductor cross section solid min.     | 0.2 mm <sup>2</sup> |
| Conductor cross section solid max.     | 4 mm <sup>2</sup>   |
| Conductor cross section stranded min.  | 0.2 mm <sup>2</sup> |
| Conductor cross section stranded max.  | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG/kcmil min. | 24                  |

# Relay Module - EMG 10-REL/KSR-G 24/ 1-LCU - 2942807

## Technical data

### Connection data

|                                       |      |
|---------------------------------------|------|
| Conductor cross section AWG/kcmil max | 12   |
| Stripping length                      | 8 mm |
| Screw thread                          | M3   |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27371001 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000196 |
| ETIM 3.0 | EC000196 |
| ETIM 4.0 | EC000196 |
| ETIM 5.0 | EC000196 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11     | 39121515 |
| UNSPSC 12.01  | 39121515 |
| UNSPSC 13.2   | 39121515 |

## Approvals

### Approvals

---

Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

---

Ex Approvals

---

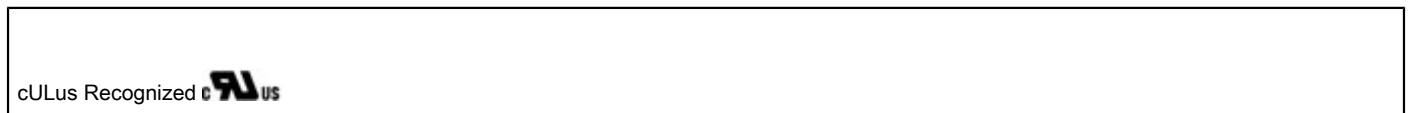
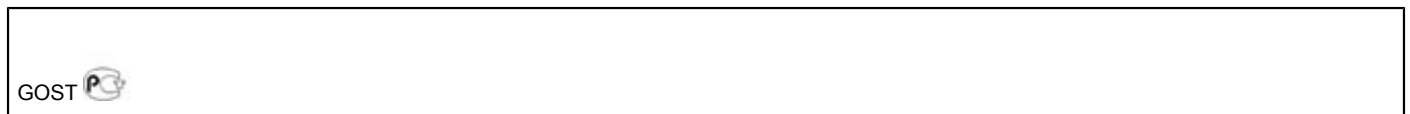
Approvals submitted

---

# Relay Module - EMG 10-REL/KSR-G 24/ 1-LCU - 2942807

## Approvals

### Approval details



## Accessories

### Accessories

Marking material - EMG-SGKS 10 - 2947585



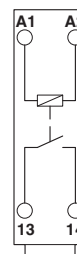
Equipment marker, narrow

## Drawings

Connection diagram



Circuit diagram



## Relay Module - EMG 10-REL/KSR-G 24/ 1-LCU - 2942807

Circuit diagram

