

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

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

### Product Features

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



### Key commercial data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 017918 080853 |
| Weight per Piece (excluding packing) | 36.07 GRM                                                                                               |
| 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 |

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## Technical data

### Ambient conditions

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

### Coil side

|                                           |                                                                |
|-------------------------------------------|----------------------------------------------------------------|
| Nominal input voltage $U_N$               | 24 V DC                                                        |
| Input voltage range in reference to $U_N$ | 0.8 ... 1.1                                                    |
| Typical input current at $U_N$            | 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      |

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### Technical data

#### Connection data

|                                        |                     |
|----------------------------------------|---------------------|
| Connection method                      | Screw connection    |
| Stripping length                       | 8 mm                |
| 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 solid min.     | 0.2 mm <sup>2</sup> |
| Conductor cross section solid max.     | 4 mm <sup>2</sup>   |
| Conductor cross section AWG/kcmil max. | 12                  |
| Conductor cross section AWG/kcmil min. | 24                  |
| 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

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

### Approvals

#### Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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### Approval details

UL Recognized 

cUL Recognized 

GOST 

cULus Recognized 

### Accessories

#### Accessories

Marking material - EMG-SGKS 10 - 2947585



Equipment marker, narrow

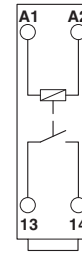
### Drawings

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

Connection diagram



Circuit diagram



Circuit diagram

