

# EMG 17-REL/KSR- 48/21 - Relay module



2953867

<https://www.phoenixcontact.com/pc/products/2953867>

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Relay module, with soldered-in miniature switching relay, contact (AgCdO): small to large loads, double A2 connection, 1 changeover contact, input voltage 48 V AC/DC

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2953867       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 1 pc          |
| Product key                          | DK6142        |
| GTIN                                 | 4017918084639 |
| Weight per piece (including packing) | 58.31 g       |
| Weight per piece (excluding packing) | 58.31 g       |
| Customs tariff number                | 85364190      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                         |                           |
|-------------------------|---------------------------|
| Product type            | Relay Module              |
| Operating mode          | 100% operating factor     |
| Mechanical service life | 2x 10 <sup>7</sup> cycles |

### Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 12.09.2025 |
|------------------------------|------------|

### Electrical properties

|                                |                                            |
|--------------------------------|--------------------------------------------|
| Test voltage (Winding/contact) | 2.5 kV AC (50 Hz, 1 min., winding/contact) |
|--------------------------------|--------------------------------------------|

### Input data

#### Coil side

|                                                    |             |
|----------------------------------------------------|-------------|
| Nominal input voltage U <sub>N</sub>               | 48 V AC/DC  |
| Input voltage range in reference to U <sub>N</sub> | 0.9 ... 1.1 |
| Typical input current at U <sub>N</sub>            | 8.5 mA      |
| Typical response time                              | 10 ms       |
| Typical release time                               | 10 ms       |

### Output data

#### Switching

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| Contact switching type                | Single contact, 1 changeover contact |
| Type of switch contact                | Single contact                       |
| Contact material                      | Silver cadmium oxide (AgCdO)         |
| Maximum switching voltage             | 250 V DC                             |
|                                       | 250 V AC                             |
| Limiting continuous current           | 6 A                                  |
| Maximum inrush current                | 8 A                                  |
| Interrupting rating (ohmic load) max. | 95 W (at 24 V DC)                    |
|                                       | 50 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> |

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|                                  |                     |
|----------------------------------|---------------------|
| Conductor cross-section flexible | 0.2 mm² ... 2.5 mm² |
| 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 mm² ... 4 mm²   |
| Conductor cross-section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section AWG      | 24 ... 12           |

## Dimensions

|        |         |
|--------|---------|
| Width  | 17.5 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 ... 50 °C |
|---------------------------------|------------------|

## Standards and regulations

|                       |              |
|-----------------------|--------------|
| Standards/regulations | IEC 664      |
|                       | IEC 664 A    |
|                       | DIN VDE 0110 |

## Mounting

|                   |                           |
|-------------------|---------------------------|
| Assembly note     | in rows with zero spacing |
| Mounting position | any                       |

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## Environmental product compliance

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.)    | No substance above 0.1 wt%                                                                                                                                                                                                        |

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