

2941400

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Relay module, with soldered-in miniature switching relay, gold contact for small loads, 1 N/O contact, input voltage 60 V DC

Your advantages

- Integrated input circuit and interference suppression circuit

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2941400       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 1 pc          |
| Product key                          | DK6141        |
| GTIN                                 | 4017918080426 |
| Weight per piece (including packing) | 36.13 g       |
| Weight per piece (excluding packing) | 36.13 g       |
| Country of origin                    | DE            |

# EMG 10-REL/KSR-G 60/ 1-LC AU - Relay module



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## Technical data

### Product properties

|                         |                                |
|-------------------------|--------------------------------|
| Product type            | Relay Module                   |
| 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 | 12.09.2025 |
|------------------------------|------------|

### Electrical properties

|                                                 |                                          |
|-------------------------------------------------|------------------------------------------|
| Maximum power dissipation for nominal condition | 0.6 W                                    |
| Test voltage (Winding/contact)                  | 4 kV AC (50 Hz, 1 min., winding/contact) |
| Rated insulation voltage                        | 260 V AC                                 |
| Rated surge voltage                             | 4 kV                                     |

### Input data

#### Coil side

|                                           |                                                                                                  |
|-------------------------------------------|--------------------------------------------------------------------------------------------------|
| Nominal input voltage $U_N$               | 60 V DC                                                                                          |
| Input voltage range                       | 48 V DC ... 66 V DC                                                                              |
| Input voltage range in reference to $U_N$ | 0.8 ... 1.1                                                                                      |
| Drive and function                        | monostable                                                                                       |
| Typical input current at $U_N$            | 10 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    | Double contact, 1 N/O contact |
| Type of switch contact    | Double contact                |
| Contact material          | AgPd60, hard gold-plated      |
| Maximum switching voltage | 30 V AC<br>36 V DC            |
| Minimum switching voltage | 100 $\mu$ V                   |

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|                                       |                  |
|---------------------------------------|------------------|
| Limiting continuous current           | 0.5 A            |
| Maximum inrush current                | 0.2 A            |
| Interrupting rating (ohmic load) max. | 5 W (at 24 V DC) |

Switching: when the gold layer is destroyed

|                                       |                                                                  |
|---------------------------------------|------------------------------------------------------------------|
| Note                                  | the following values are applicable if a gold layer is destroyed |
| Maximum switching voltage             | 125 V AC<br>150 V DC                                             |
| Limiting continuous current           | 2 A                                                              |
| Maximum inrush current                | 2 A                                                              |
| Interrupting rating (ohmic load) max. | 29 W (at 24 V DC)<br>29 W (at 48 V DC)<br>29 W (at 60 V DC)      |

## 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                                   |

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

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

## Material specifications

|       |                  |
|-------|------------------|
| Color | green (RAL 6021) |
|-------|------------------|

## Environmental and real-life conditions

Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Degree of protection            | IP20             |
| Ambient temperature (operation) | -20 °C ... 40 °C |

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|                                         |                  |
|-----------------------------------------|------------------|
| 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                       |

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## Drawings

Connection diagram



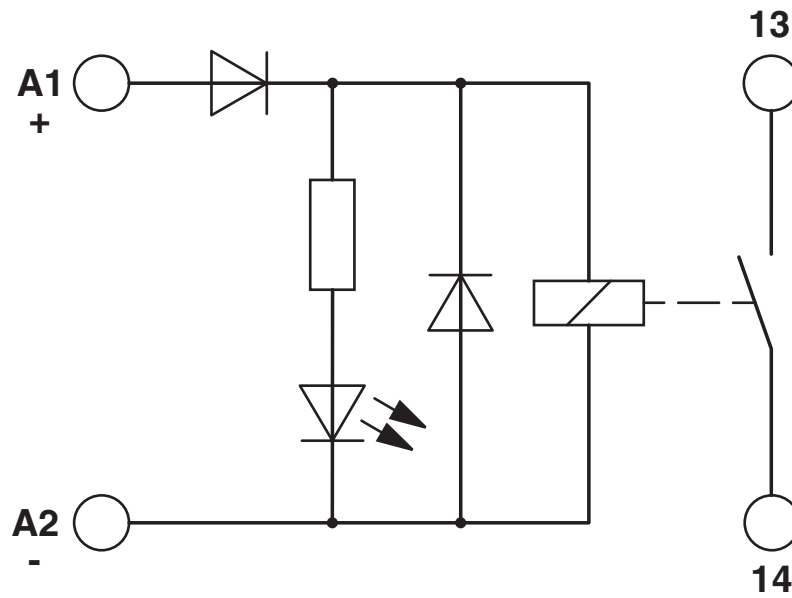
# EMG 10-REL/KSR-G 60/ 1-LC AU - Relay module

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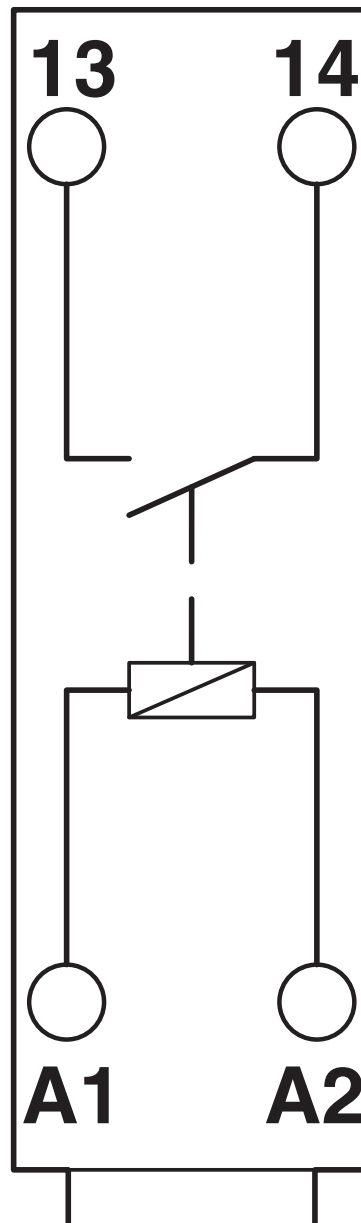
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Circuit diagram



Circuit diagram



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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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