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Plug-in relay interfaces for protection against interference on the control side, with soldered-in miniature switching relay, contacts (Au): small loads, 1 changeover contact, input voltage 230 V AC

Your advantages

- Use of AC output cards, resulting in residual AC currents
- Resistant to interference currents
- Applications with long control lines
- High relay release voltage

Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2940061             |
| Packing unit                         | 10 pc               |
| Minimum order quantity               | 10 pc               |
| Sales key                            | CK6141              |
| Product key                          | CK6141              |
| Catalog page                         | Page 446 (C-5-2019) |
| GTIN                                 | 4017918079840       |
| Weight per piece (including packing) | 67.57 g             |
| Weight per piece (excluding packing) | 67.57 g             |
| Customs tariff number                | 85364900            |
| Country of origin                    | DE                  |

## 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             | Filter to prevent interference |
| Mechanical service life | approx. $2 \times 10^7$ cycles |

#### Insulation characteristics

|            |                  |
|------------|------------------|
| Insulation | Basic insulation |
|------------|------------------|

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|                      |                  |
|----------------------|------------------|
| Insulation           | Basic insulation |
| Overvoltage category | III              |
| Pollution degree     | 2                |

### Electrical properties

|   |  |
|---|--|
| Maximum power dissipation for nominal condition | 4.14 W                                     |
| Test voltage (Winding/contact)                  | 2.5 kV AC (50 Hz, 1 min., winding/contact) |

### Input data

#### Coil side

|                                |                                    |
|--------------------------------|------------------------------------|
| Nominal input voltage $U_N$    | 230 V AC                           |
| Input voltage range            | 207 V AC ... 253 V AC (20 °C)      |
| Drive and function             | monostable                         |
| Drive (polarity)               | polarized                          |
| Typical input current at $U_N$ | 18 mA                              |
| Typical response time          | 10 ms                              |
| Typical release time           | 8 ms                               |
| Protective circuit             | Bridge rectifier; Bridge rectifier |
|                                | Surge protection; Varistor         |
|                                | RC element; RC element             |
| Operating voltage display      | Yellow LED                         |

### Output data

#### Switching

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

# EMG 22-REL/KSR-230/21/AU/SO46 - Relay Module



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<https://www.phoenixcontact.com/gb/products/2940061>

|                                       |                          |
|---------------------------------------|--------------------------|
| Contact material                      | AgPd60, hard gold-plated |
| Maximum switching voltage             | 30 V AC                  |
|                                       | 36 V DC                  |
| 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   |
|                                       | 150 V DC   |
| Limiting continuous current           | 2 A  |
| Maximum inrush current                | 2 A  |
| Interrupting rating (ohmic load) max. | 29 W (at 24 V DC)  |
|                                       | 29 W (at 48 V DC)  |
|                                       | 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                                   |

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| Conductor cross section AWG      | 24 ... 12                                   |

## Dimensions

|        |         |
|--------|---------|
| Width  | 22.5 mm |
| Height | 75 mm   |
| Depth  | 62.5 mm |

## Material specifications

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

## Environmental and real-life conditions

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### Ambient conditions

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

### Standards and regulations

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

### Mounting

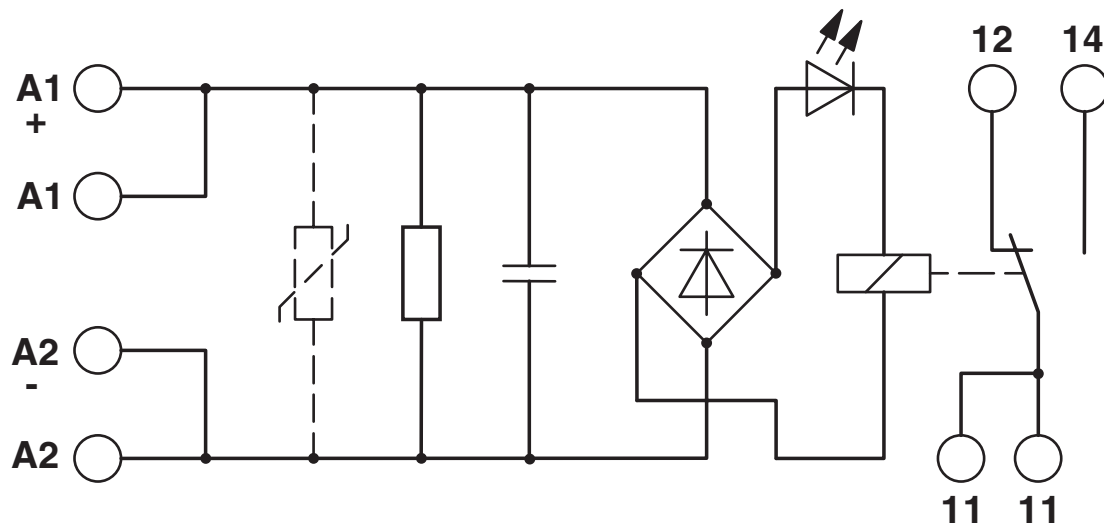
|                   |                   |
|-------------------|-------------------|
| Mounting type     | DIN rail mounting |
| Mounting position | any               |

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## Drawings

Circuit diagram



# EMG 22-REL/KSR-230/21/AU/SO46 - Relay Module



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2940061>



**EAC**

Approval ID: TR\_TS\_D\_00573\_c



**EAC**

Approval ID: RU\*C-DE.\*08.B.00010

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27371601 |
| ECLASS-12.0 | 27371601 |
| ECLASS-13.0 | 27371601 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001437 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

Environmental product compliance

|            |  |
|------------|--|
| REACH SVHC | Lead 7439-92-1   |
|            | Hexahydromethylphthalic anhydride  |
| China RoHS | Environmentally Friendly Use Period = 50 years   |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |