

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



2940760

<https://www.phoenixcontact.com/us/products/2940760>

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

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## Your advantages

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

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## Commercial Data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2940760             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 10 pc               |
| Sales Key                            | C05                 |
| Product Key                          | CK6142              |
| Catalog Page                         | Page 446 (C-5-2019) |
| GTIN                                 | 4017918080228       |
| Weight per Piece (including packing) | 68.21 g             |
| Weight per Piece (excluding packing) | 67.5 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                   |
| Application             | Filter to prevent interference |
| Mechanical service life | approx. $2 \times 10^7$ cycles |

#### Insulation characteristics

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

### Electrical properties

|   |  |
|---|--|
| Maximum power dissipation for nominal condition | 4.14 W                                     |
| Test voltage                                    | 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)      |
| 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 type                | Single contact, 1 changeover contact |
| Type of switch contact      | Single contact                       |
| Drive and function          | monostable                           |
| Contact material            | AgNi                                 |
| Maximum switching voltage   | 250 V AC/DC                          |
| Limiting continuous current | 6 A                                  |
| Maximum inrush current      | 8 A                                  |
|                             | 95 W (at 24 V DC)                    |

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|                                       |                        |
|---------------------------------------|------------------------|
| Interrupting rating (ohmic load) max. | 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 solid    | 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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|                                  |   |
|----------------------------------|---|
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| Conductor cross section AWG      | 24 ... 12                                   |

## Dimensions

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

## Environmental and real-life conditions

### 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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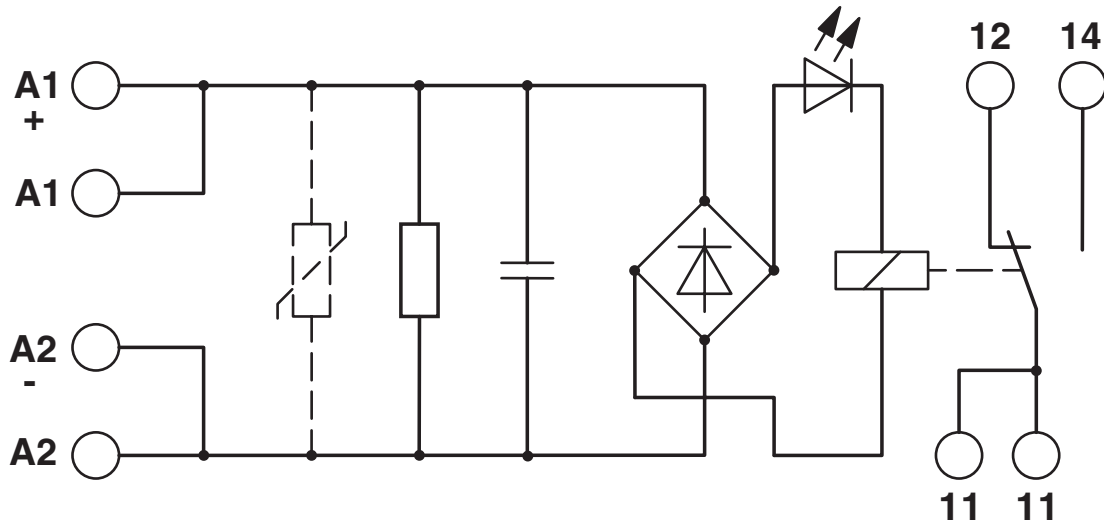


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## Drawings

Circuit diagram



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## Approvals



**EAC**

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



**EAC**

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

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## Classifications

### ECLASS

|               |          |
|---------------|----------|
| ECLASS-9.0    | 27371601 |
| ECLASS-10.0.1 | 27371601 |
| ECLASS-11.0   | 27371601 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC001437 |
|----------|----------|

### UNSPSC

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

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## 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" |

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