

# EMG 22-REL/KSR-W230/21-21 - Relay module



2944795

<https://www.phoenixcontact.com/us/products/2944795>

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Relay module, with soldered-in miniature switching relay, contact (AgNi): medium to large loads, 2 changeover contacts, input voltage 230 V AC/DC

The figure shows version EMG 22,5 REL, with integrated p-n-p transistor control

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2944795       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C460          |
| Product key                          | DK61C2        |
| GTIN                                 | 4017918081713 |
| Weight per piece (including packing) | 61.33 g       |
| Weight per piece (excluding packing) | 63.25 g       |
| Customs tariff number                | 85364900      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                         |  |
|-------------------------|--|
| Notes on operation      | At least one functional insulation against adjacent modules is complied with in the support rail direction.<br>If the application has higher requirements on the insulation (basic or reinforced insulation), then these must be realized through suitable measures (e. g., partition plates). |
| Utilization restriction |  |
| EMC note                | EMC: class A product, see manufacturer's declaration in the download area  |

### Product properties

|                              |  |
|------------------------------|--|
| Product type                 | Relay Module                             |
| Mechanical service life      | 1x 10 <sup>7</sup> cycles, approximately |
| Data management status       |  |
| Date of last data management | 01.04.2026                               |

### Electrical properties

|  |   |
|--|---|
| Maximum power dissipation for nominal condition                  | 1.15 W  |
| Test voltage (Winding/contact)                                   | 2.5 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)                    |
| Test voltage (Changeover contact/changeover contact)             | 1 V <sub>rms</sub> (50 Hz, 1 min., changeover contact/changeover contact) |
| Air clearances and creepage distances between the power circuits |   |
| Rated insulation voltage   | 250 V AC  |

### Input data

#### Coil side

|   |                                 |
|---|---------------------------------|
| Nominal input voltage U <sub>N</sub>    | 230 V AC                        |
| Input voltage range                     | 195.5 V AC ... 253 V AC (20 °C) |
| Mains frequency                         | 50 Hz                           |
| Drive and function                      | monostable                      |
| Drive (polarity)                        | polarized                       |
| Typical input current at U <sub>N</sub> | 3.5 mA                          |
| Typical response time                   | 4 ms ... 15 ms                  |
| Typical release time range              | 4 ms ... 15 ms                  |
| Protective circuit                      | Varistor                        |
| Status display                          | Glow lamp                       |

### Output data

#### Switching

|                        |                       |
|------------------------|-----------------------|
| Contact switching type | 2 changeover contacts |
| Type of switch contact | Single contact        |
| Contact material       | AgNi                  |

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|                                       |                   |
|---------------------------------------|-------------------|
| Maximum switching voltage             | 250 V AC/DC       |
| Minimum switching voltage             | 5 V (10 mA)       |
| Limiting continuous current           | 5 A               |
| Interrupting rating (ohmic load) max. | 70 W (24 V DC)    |
|                                       | 40 W (48 V DC)    |
|                                       | 35 W (60 V DC)    |
|                                       | 30 W (110 V DC)   |
|                                       | 55 W (220 V DC)   |
|                                       | 750 VA (250 V AC) |

## Connection data

|                   |                  |
|-------------------|------------------|
| Connection method | Screw connection |
|-------------------|------------------|

## Dimensions

### Item dimensions

|        |         |
|--------|---------|
| Width  | 22.5 mm |
| Height | 79.4 mm |
| Depth  | 60.2 mm |

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

|  |                                |
|--|--------------------------------|
| Degree of protection (Relay)                 | RT III (Relay)                 |
| Degree of protection (Installation location) | ≥ IP54 (Installation location) |
| Ambient temperature (operation)              | -20 °C ... 50 °C               |
| Ambient temperature (storage/transport)      | -40 °C ... 85 °C               |
| Altitude                                     | ≤ 2000 m                       |

## Standards and regulations

|                       |            |
|-----------------------|------------|
| Standards/regulations | EN 50178   |
|                       | EN 61810-1 |

### Air clearances and creepage distances between the power circuits

|                       |              |
|-----------------------|--------------|
| Standards/regulations | DIN EN 50178 |
|-----------------------|--------------|

## Mounting

|                   |                           |
|-------------------|---------------------------|
| Mounting type     | DIN rail mounting         |
| Assembly note     | in rows with zero spacing |
| Mounting position | any                       |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27371601 |
| ECLASS-15.0 | 27371601 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001437 |
|-----------|----------|

### UNSPSC

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

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## Environmental product compliance

### EU RoHS

|   |      |
|---|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

### 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.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 0bb94473-b73e-4555-aabb-09742e847978 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.919 kg CO2e |
|---------|---------------|

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