

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



2949295

<https://www.phoenixcontact.com/us/products/2949295>

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Relay module, with soldered-in miniature switching relay, contact (AgNi+Au): small to large loads, 1 changeover contact, input voltage 230 V AC/DC

Your advantages

- Safe isolation between coil and contact side
- Integrated input circuit and interference suppression circuit

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2949295 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Note | Made to order (non-returnable) |
| Sales key | C460 |
| Product key | CK6141 |
| Catalog page | Page 135 (IF-2011) |
| GTIN | 4017918083755 |
| Weight per piece (including packing) | 64.5 g |
| Weight per piece (excluding packing) | 64.5 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

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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 | Universal |
| Operating mode | 100% operating factor |
| Mechanical service life | approx. 5×10^7 cycles |

Insulation characteristics

| | |
|------------|--|
| Insulation | Basic insulation |
| | Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths |

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| Overvoltage category | III |
| Pollution degree | 2 |

Electrical properties

| | |
|---|--|
| Maximum power dissipation for nominal condition | 1.15 W |
| Test voltage (Winding/contact) | 5 kV _{rms} (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 | 230 V AC/DC |
| Input voltage range | 207 V AC/DC ... 243.8 V AC/DC (20 °C) |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at U_N | 5 mA |
| Typical response time | 8 ms |
| Typical release time | 10 ms |
| Protective circuit | Bridge rectifier; Bridge rectifier |
| | Varistor; Varistor |
| Operating voltage display | Yellow LED |

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Output data

Switching

| | |
|---------------------------------------|------------------------|
| Contact switching type | 1 changeover contact |
| Type of switch contact | Single contact |
| Contact material | AgNi, hard gold-plated |
| Maximum switching voltage | 30 V AC 36 V DC |
| Limiting continuous current | 50 mA |
| Maximum inrush current | 50 mA |
| Interrupting rating (ohmic load) max. | 1.2 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 | 250 V AC/DC |
| Limiting continuous current | 6 A |
| Maximum inrush current | 8 A |
| Interrupting rating (ohmic load) max. | 144 W (at 24 V DC) 58 W (at 48 V DC) 48 W (at 60 V DC) 50 W (at 110 V DC) 80 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 ² ... 4 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 12 |

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Dimensions

| | |
|-------|---------|
| Width | 22.5 mm |
|-------|---------|

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| | |
|--------|---------|
| Height | 75 mm |
| Depth | 62.5 mm |

Material specifications

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

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -20 °C ... 50 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

Standards and regulations

| | |
|-----------------------|-------------|
| Standards/regulations | IEC 60664-1 |
|-----------------------|-------------|

Mounting

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

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Classifications

ECLASS

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

ETIM

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