

EMG 12-REL/KSR-120/1 - Relay module



2949211

<https://www.phoenixcontact.com/us/products/2949211>

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Relay module, with soldered-in miniature switching relay, contact (AgNi): Medium to large loads, 1 N/O contact, 120 V AC/DC input voltage

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2949211 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C460 |
| Product key | DK6142 |
| GTIN | 4017918083717 |
| Weight per piece (including packing) | 45.16 g |
| Weight per piece (excluding packing) | 45.16 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 |
| Mechanical service life | approx. 2×10^7 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) |

Input data

Coil side

| | |
|---|--|
| Nominal input voltage U_N | 120 V AC/DC |
| Input voltage range | 96 V AC/DC ... 127.2 V AC/DC |
| Input voltage range in reference to U_N | 0.8 ... 1.06 |
| Drive and function | monostable |
| 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 |

Output data

Switching

| | |
|-----------------------------|-------------------------------|
| Contact switching type | Single contact, 1 N/O contact |
| Type of switch contact | Single contact |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Limiting continuous current | 6 A |

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| | |
|---------------------------------------|------------------------|
| Maximum inrush current | 8 A |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC) |
| | 60 W (at 48 V DC) |
| | 48 W (at 60 V DC) |
| | 35 MW (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 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 |

Contact side

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Dimensions

| | |
|--------|---------|
| Width | 12.5 mm |
| Height | 75 mm |
| Depth | 62.5 mm |

Material specifications

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

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

| | |
|-----------------------|------------------------|
| Standards/regulations | VDE 0160 |
| | VDE 0435 (in sections) |
| | VDE 0110b |

Mounting

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

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