

EMG 10-REL/KSR-120/ 1-LC - Relay module



2964432

<https://www.phoenixcontact.com/us/products/2964432>

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

Your advantages

- Integrated input circuit and interference suppression circuit

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2964432 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | C460 |
| Product key | DK61C2 |
| GTIN | 4017918125103 |
| Weight per piece (including packing) | 36.22 g |
| Weight per piece (excluding packing) | 36.22 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|-------------------------|--------------------------------|
| Product type | Relay Module |
| Product family | EMG |
| Application | Universal |
| Operating mode | 100% operating factor |
| 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 | 01.04.2026 |
|------------------------------|------------|

Electrical properties

| | |
|---|--|
| Maximum power dissipation for nominal condition | 0.6 W |
| Test voltage (Winding/contact) | 4 kV AC (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 | 120 V AC/DC |
| Input voltage range | 96 V AC/DC ... 132 V AC/DC (20 °C) |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at U_N | 5 mA |
| Typical response time | 7 ms |
| Typical release time | 11 ms |
| Protective circuit | Bridge rectifier; Bridge rectifier Surge protection; Varistor |
| Operating voltage display | Yellow LED |

Output data

Switching

| | |
|---------------------------|----------------|
| Contact switching type | 1 N/O contact |
| Type of switch contact | Single contact |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 12 V |

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| | |
|---------------------------------------|------------------------|
| Limiting continuous current | 6 A |
| Maximum inrush current | 8 A |
| Min. switching current | 100 mA |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC) |
| | 60 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 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

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Stripping length | 8 mm |
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| Conductor cross-section AWG | 24 ... 12 |

Dimensions

| | |
|--------|---------|
| Width | 10.6 mm |
| Height | 75 mm |
| Depth | 53.5 mm |

Material specifications

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

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -20 °C ... 40 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

Standards and regulations

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

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Mounting

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

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Drawings

Connection diagram



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Circuit diagram



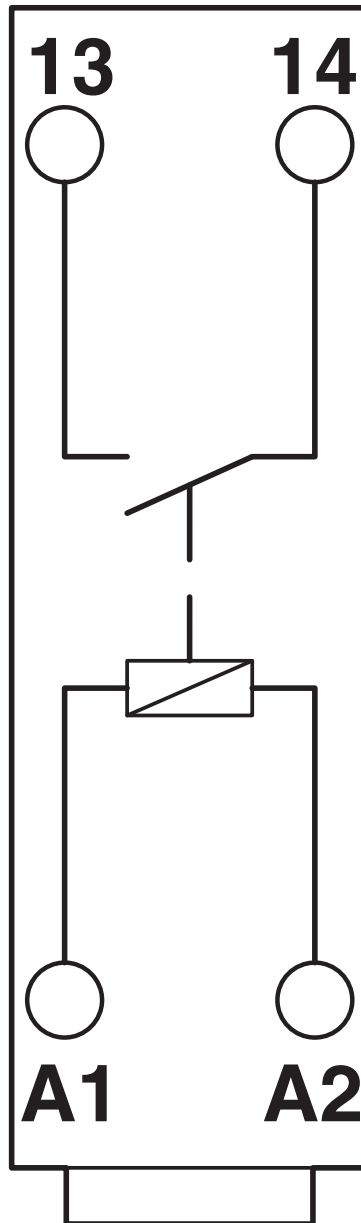
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Circuit diagram



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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

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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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