

2964445

<https://www.phoenixcontact.com/gb/products/2964445>

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

Your advantages

- Integrated input circuit and interference suppression circuit

Commercial data

| | |
|--------------------------------------|--------------------|
| Item number | 2964445 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | CK6142 |
| Product key | CK6142 |
| Catalog page | Page 134 (IF-2011) |
| GTIN | 4017918125110 |
| Weight per piece (including packing) | 40.57 g |
| Weight per piece (excluding packing) | 40.57 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

EMG 10-REL/KSR-120/21-LC - Relay Module



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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. 2×10^7 cycles |

Insulation characteristics

| | |
|------------|------------------|
| Insulation | Basic insulation |
|------------|------------------|

Insulation characteristics

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

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 ... 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 changeover contact |
| Type of switch contact | Single contact |

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| | |
|---------------------------------------|------------------------|
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Limiting continuous current | 6 A |
| Maximum inrush current | 8 A |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC) |
| | 53 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

| | |
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Dimensions

| | |
|--------|---------|
| Width | 10.6 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 ... 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 instructions | in rows with zero spacing |
| Mounting position | any |

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Drawings

Connection diagram



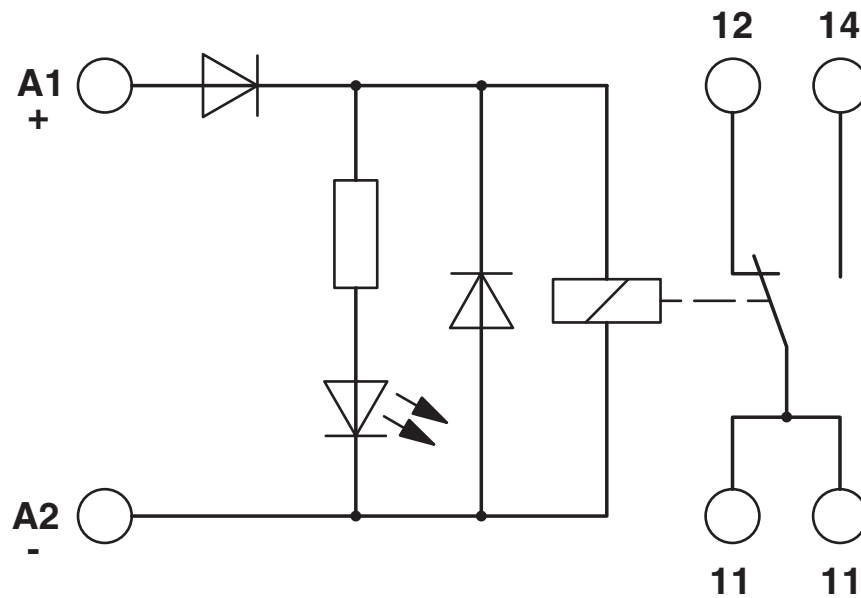
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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2964445>



cUL Recognized
Approval ID: FILE E 238705



UL Recognized
Approval ID: FILE E 238705



EAC
Approval ID: TR_TS_D_00573_c



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

cULus Recognized

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Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 9.0 | 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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Accessories

EMG-SGKS 10 - Marking material

2947585

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Equipment marker, narrow

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