

EMG 10-REL/KSR-230/ 1-LC - Relay Module



2964403

<https://www.phoenixcontact.com/us/products/2964403>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Relay module, with soldered-in miniature switching relay, contacts (AgNi): Medium to large loads, 1 N/O contact, input voltage 230 V AC/DC

Your advantages

- Integrated input circuit and interference suppression circuit

Commercial data

| | |
|--------------------------------------|--------------------|
| Item number | 2964403 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C460 |
| Product key | CK6142 |
| Catalog page | Page 133 (IF-2011) |
| GTIN | 4017918107468 |
| Weight per piece (including packing) | 37.53 g |
| Weight per piece (excluding packing) | 35.9 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

EMG 10-REL/KSR-230/ 1-LC - Relay Module



2964403

<https://www.phoenixcontact.com/us/products/2964403>

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 | 1.1 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 | 230 V AC/DC |
| Input voltage range | 184 V AC/DC ... 253 V AC/DC (20 °C) |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at U_N | 4.8 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

EMG 10-REL/KSR-230/ 1-LC - Relay Module



2964403

<https://www.phoenixcontact.com/us/products/2964403>

| | |
|---------------------------------------|--|
| 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 |
| 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 |
| 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 |

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 |

EMG 10-REL/KSR-230/ 1-LC - Relay Module



2964403

<https://www.phoenixcontact.com/us/products/2964403>

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

Standards and regulations

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

Mounting

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

EMG 10-REL/KSR-230/ 1-LC - Relay Module



2964403

<https://www.phoenixcontact.com/us/products/2964403>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

EMG 10-REL/KSR-230/ 1-LC - Relay Module



2964403

<https://www.phoenixcontact.com/us/products/2964403>

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" |

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com