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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2946353 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | C460 |
| Product key | CK61C2 |
| GTIN | 4017918082277 |
| Weight per piece (including packing) | 54.4 g |
| Weight per piece (excluding packing) | 54.01 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

EMG 17-REL/KSR-230/21/SO 54 - Relay module

2946353

<https://www.phoenixcontact.com/us/products/2946353>



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 | 3×10^7 cycles |

Insulation characteristics: Air clearances and creepage distances, input/output

| | |
|--------------------|-----------------------|
| Insulation | Reinforced insulation |
| Overshoot category | III |
| Pollution degree | 2 |

Data management status

| | |
|------------------------------|------------|
| Date of last data management | 02.05.2024 |
|------------------------------|------------|

Electrical properties

| | |
|---|--------|
| Maximum power dissipation for nominal condition | 1.15 W |
|---|--------|

Air clearances and creepage distances, input/output

| | |
|--------------------------|-----------------------|
| Rated insulation voltage | 250 V |
| Rated surge voltage | 6 kV (1.2/50 μ s) |

Input data

Coil side

| | |
|--------------------------------|------------------------------------|
| Nominal input voltage U_N | 230 V AC |
| Input voltage range | 184 V AC ... 253 V AC (20 °C) |
| Typical input current at U_N | 4.5 mA |
| Typical response time | 7 ms |
| Typical release time | 10 ms |
| Protective circuit | Bridge rectifier; Bridge rectifier |
| Operating voltage display | Yellow LED |

Output data

Switching

| | |
|-----------------------------|---|
| Contact switching type | Single contact, 1 changeover contact |
| Type of switch contact | Single contact |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Limiting continuous current | 6 A |
| Maximum inrush current | 15 A (max. 4 seconds up to a duty ratio of 10%) |

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

Contact side

| | |
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Dimensions

| | |
|--------|---------|
| Width | 17.5 mm |
| Height | 75 mm |
| Depth | 62.5 mm |

Material specifications

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

Environmental and real-life conditions

Ambient conditions

| | |
|--|--------------------------------|
| Degree of protection | IP20 |
| Degree of protection (Installation location) | ≥ IP54 (Installation location) |
| Ambient temperature (operation) | -20 °C ... 50 °C |
| Altitude | ≤ 2000 m |

Standards and regulations

| | |
|---|-----------------------|
| Air clearances and creepage distances, input/output | |
| Standards/regulations | DIN EN 50178: 1998-04 |

Mounting

EMG 17-REL/KSR-230/21/SO 54 - Relay module

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

Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2946353>



EAC

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

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

Environmental product compliance

EU RoHS

| | |
|---|------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c), 7(a) |

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.) | Lead(CAS: 7439-92-1) |
| SCIP | 255d17da-5cdc-4670-9b34-302682343283 |

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