

EMG 12-REL/KSR-230/1AU - Relay module



2942616

<https://www.phoenixcontact.com/us/products/2942616>

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Relay module, with soldered-in miniature switching relay, contact (AgPd60 5 µm hard gold-plated): medium to large loads, 1 N/O contact, 230 V AC/DC input voltage

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2942616 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | C460 |
| Product key | DK61C2 |
| GTIN | 4017918080792 |
| Weight per piece (including packing) | 45.77 g |
| Weight per piece (excluding packing) | 45.185 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 |
| 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 | 1.15 W |
| Test voltage (Winding/contact) | 4 kV AC (50 Hz, 1 min., winding/contact) |

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 | 5 mA |
| Typical response time | 6 ms |
| Typical release time | 7 ms |
| Protective circuit | Bridge rectifier; Bridge rectifier |
| Operating voltage display | Yellow LED |

Output data

Switching

| | |
|---------------------------|------------------------------|
| Contact switching type | 1 N/O contact |
| Type of switch contact | Double contact |
| Contact material | AgPd60 5 µm hard gold-plated |
| Maximum switching voltage | 30 V AC |
| | 36 V DC |

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| | |
|---------------------------------------|------------------|
| Limiting continuous current | 0.5 A |
| Maximum inrush current | 0.2 A |
| Interrupting rating (ohmic load) max. | 5 W (at 24 V DC) |

Switching: when the gold layer is destroyed

| | |
|---------------------------------------|--|
| Note | the following values are applicable if a gold layer is destroyed |
| Maximum switching voltage | 125 V AC |
| Minimum switching voltage | 150 V DC |
| Limiting continuous current | 2 A |
| Maximum inrush current | 2 A |
| Interrupting rating (ohmic load) max. | 29 W (at 24 V DC) 29 W (at 48 V DC) 29 W (at 60 V DC) |

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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| Conductor cross-section AWG | 24 ... 12 |

Dimensions

Item 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

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

Mounting

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

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2942616>



EAC

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

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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

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.) | Hexahydromethylphthalic anhydride(CAS: n/a) |
| | Lead(CAS: 7439-92-1) |
| SCIP | 0953e767-b729-44e5-b2ca-0686e8f8c88b |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 1.436 kg CO2e |
|---------|---------------|

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