

2941468

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Relay module, with soldered-in miniature switching relay, contact (AgNi+Au): small to large loads, 2 changeover contacts, input voltage 230 V AC

Your advantages

- · Safe isolation between coil and contact side
- · Integrated input circuit and interference suppression circuit

Commercial data

| Item number | 2941468 |
|--------------------------------------|--------------------|
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | CK6146 |
| Product key | CK6146 |
| Catalog page | Page 135 (IF-2011) |
| GTIN | 4017918080464 |
| Weight per piece (including packing) | 55.77 g |
| Weight per piece (excluding packing) | 56.37 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |



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Technical data

| General | Only available as AC voltage version. |
|-------------------------|---|
| 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. 5x 10 ⁷ cycles |

Insulation characteristics

| Insulation | Basic insulation |
|------------|--|
| | Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths |

Insulation characteristics: Air clearances and creepage distances between the power circuits

| Insulation | Basic insulation |
|----------------------|--|
| | Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths |
| Overvoltage category | II |
| Pollution degree | 2 |

Insulation characteristics: Air clearances and creepage distances between input and contact circuit (or output contact current path)

| Insulation | Safe isolation, reinforced insulation |
|----------------------|---------------------------------------|
| Overvoltage category | III |
| Pollution degree | 2 |

Electrical properties

| Maximum power dissipation for nominal condition | 0.92 W |
|---|--|
| Test voltage (Winding/contact) | 4 kV AC (50 Hz, 1 min., winding/contact) |
| Test voltage (Contact/contact) | 1 kV AC (50 Hz, 1 min., changeover contact/changeover contact) |

Air clearances and creepage distances between the power circuits

| Rated insulation voltage | 260 V AC |
|--------------------------|----------|
| Rated surge voltage | 2.3 kV |

Air clearances and creepage distances between input and contact circuit (or output contact current path)

| Rated insulation voltage | 260 V AC |
|--------------------------|----------|
| Rated surge voltage | 6 kV |

Input data



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Coil side

| Nominal input voltage U _N | 230 V AC |
|---|---------------------------|
| Input voltage range | 184 V AC 253 V AC (20 °C) |
| Mains frequency | 50/60 Hz |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at U _N | 4 mA |
| Typical response time | 7 ms |
| | 3 ms 12 ms |
| Typical release time | 3 ms |
| Typical release time range | 2 ms 9 ms |
| Operating voltage display | Glow lamp |

Output data

Switching

| Contact switching type | 2 changeover contacts |
|---------------------------------------|------------------------|
| Type of switch contact | Single contact |
| Contact material | AgNi, hard gold-plated |
| Maximum switching voltage | 30 V AC |
| | 36 V DC |
| Limiting continuous current | 50 mA |
| Maximum inrush current | 0.2 A |
| Interrupting rating (ohmic load) max. | 1.2 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 | 250 V AC/DC |
| Limiting continuous current | 5 A |
| Maximum inrush current | 6 A |
| Interrupting rating (ohmic load) max. | 120 W (at 24 V DC) |
| | 95 W (at 48 V DC) |
| | 60 W (at 60 V DC) |
| | 40 W (at 110 V DC) |
| | 55 W (at 220 V DC) |
| | 1250 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 mm² 4 mm² |



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| 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 mm² 4 mm² |
| Conductor cross section flexible | 0.2 mm² 2.5 mm² |
| Conductor cross section AWG | 24 12 |
| mensions | |
| Width | 17.5 mm |
| Height | 75 mm |
| Depth | 62.5 mm |
| aterial specifications | |
| Color | groon (BAI 6024) |
| COIOI | green (RAL 6021) |
| nvironmental and real-life conditions | |
| Ambient conditions | 20 °C 40 °C |
| Ambient conditions Ambient temperature (operation) | -20 °C 40 °C |
| Ambient conditions | -20 °C 40 °C -20 °C 70 °C |
| Ambient conditions Ambient temperature (operation) | |
| Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) | -20 °C 70 °C |
| Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) candards and regulations | -20 °C 70 °C |
| Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) candards and regulations Air clearances and creepage distances between the power | -20 °C 70 °C r circuits IEC 60664-1 |
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| Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) candards and regulations Air clearances and creepage distances between the power Standards/regulations Air clearances and creepage distances between input and of Standards/regulations Standards/regulations Standards/regulations Standards/regulations Ounting Mounting type | -20 °C 70 °C circuits IEC 60664-1 contact circuit (or output contact current path) IEC 60664-1 EN 61810-1 DIN rail mounting |
| Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) andards and regulations Air clearances and creepage distances between the power Standards/regulations Air clearances and creepage distances between input and standards/regulations Standards/regulations Standards/regulations Standards/regulations ounting | -20 °C 70 °C circuits IEC 60664-1 contact circuit (or output contact current path) IEC 60664-1 EN 61810-1 |

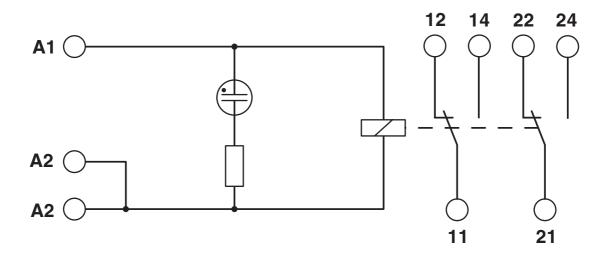


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Drawings

Circuit diagram





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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2941468



cUL Recognized

Approval ID: FILE E 238705



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EAC

Approval ID: TR_TS_D_00573_c



EAC

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

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Classifications

ECLASS

UNSPSC 21.0

| | ECLASS-11.0 | 27371601 |
|------|-------------|----------|
| | ECLASS-12.0 | 27371601 |
| | ECLASS-13.0 | 27371601 |
| ETIM | | |
| | ETIM 9.0 | EC001437 |
| UN | SPSC | |

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Environmental product compliance

| REACh SVHC | Lead 7439-92-1 |
|------------|--|
| | |
| 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-GKS 12 - Marking material

2947035

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Device marking label, width: 12 mm, area: 12×8 mm, e.g. for EML(10x7) R adhesive marking material

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