

EMG 10-OV-230AC/24DC/1 - Solid-state relay module



2944274

<https://www.phoenixcontact.com/in/products/2944274>

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.



Power solid-state relay, with LED and protective circuit in input and output circuits, input: 230 V AC, output: 5 - 36 V DC/max. 1 A

Commercial Data

| | |
|--------------------------------------|--------------------|
| Item number | 2944274 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales Key | CK6 |
| Product Key | CK61C2 |
| Catalog Page | Page 138 (IF-2011) |
| GTIN | 4017918081577 |
| Weight per Piece (including packing) | 39.99 g |
| Weight per Piece (excluding packing) | 37.6 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

Technical Data

Notes

Utilization restriction

| | |
|----------|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---|

Product properties

| | |
|----------------|--------------------------|
| Product type | Solid-state relay module |
| Application | Output function |
| Operating mode | 100% operating factor |

Insulation characteristics

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

Insulation characteristics

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

Electrical properties

| | |
|-----------------------------|--------------------------|
| Test voltage (Input/output) | 3.5 kV AC (Input/output) |
|-----------------------------|--------------------------|

Input data

| | |
|--|--|
| Nominal input voltage U_N | 230 V AC |
| Input voltage range in reference to U_N | 0.9 ... 1.1 |
| Input voltage range | 207 V AC ... 253 V AC |
| Switching threshold "0" signal in reference to U_N | ≤ 0.27 |
| Switching threshold "1" signal in reference to U_N | ≥ 0.45 |
| Typical input current at U_N | 4 mA |
| Typical response time | 25 ms |
| Typical turn-off time | 25 ms |
| Status display | Yellow LED |
| Protective circuit | Reverse polarity protection; Polarity protection diode |
| Transmission frequency | 10 Hz |

Output data

| | |
|--|---|
| Contact switching type | 1 N/O contact |
| Design of digital output | electronic |
| Output nominal voltage | 24 V DC |
| Output voltage range | 5 V DC ... 36 V DC |
| Limiting continuous current | 1 A (see derating curve) |
| Surge current | 2 A ($t = 1$ s) |
| Peak offstate voltage | 45 V DC (Collector-emitter reverse voltage) |
| Voltage drop at max. limiting continuous current | ≤ 1 V |
| Output circuit | 2-conductor, floating |

| | |
|--------------------|--|
| Protective circuit | Reverse polarity protection; Polarity protection diode |
|--------------------|--|

Connection data

Input 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 |

Output 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 mm |
| Height | 75 mm |
| Depth | 102 mm |

Material specifications

| | |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -20 °C ... 50 °C |
| 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-OV-230AC/24DC/1 - Solid-state relay module



2944274

<https://www.phoenixcontact.com/in/products/2944274>

Phoenix Contact 2023 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

info@phoenixcontact.co.in