

EMG 10-OV- 12DC/24DC/1

Order No.: 2944216

The illustration shows version EMG 10-OV, with DC voltage output, max. 1 A



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2944216>

Power optocoupler, with light indicator and protection circuits in the input and output circuits, input: 12 V DC, output: 5-36 V DC/ max. 1 A

| Commercial data | |
|--------------------------|--------------------|
| EAN | 4017918081515 |
| Pack | 10 Pcs. |
| Customs tariff | 85364190 |
| Weight/Piece | 0.04047 KG |
| Catalog page information | Page 112 (IF-2007) |

Product notes

WEEE/RoHS-compliant since:
06/07/2007



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Technical data

| Input data | |
|--|--------------|
| Nominal input voltage U_N | 12 V DC |
| Input voltage range in reference to U_N | 0.9 ... 1.1 |
| Switching threshold "0" signal, voltage | ≤ 5.3 V |
| Switching threshold "0" signal in reference to U_N | ≤ 0.33 |
| Switching threshold "1" signal voltage | ≥ 7 V |

| | |
|--|---------------------------|
| Switching threshold "1" signal in reference to U_N | ≥ 0.9 |
| Typical input current at U_N | 4 mA |
| Typical response time | 0.1 ms |
| Typical turn-off time | 0.2 ms |
| Status display | Yellow LED |
| Name of protection | Polarity protection |
| Protective circuit/component | Polarity protection diode |
| Transmission frequency | 500 Hz |

Output data

| | |
|--|---|
| Output nominal voltage | 24 V DC |
| Output nominal voltage range | 5 V DC ... 36 V DC |
| Limiting continuous current | 1 A |
| 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 |
| Name of protection | Polarity protection |
| Protective circuit/component | Polarity protection diode |

Connection data

| | |
|--|---------------------|
| Type of connection | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 4 mm ² |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 12 |

General data

| | |
|---------------------------|-----------|
| Length | 75 mm |
| Width | 10 mm |
| Height | 102 mm |
| Test voltage input/output | 3.5 kV AC |

| | |
|---|---------------------------|
| Ambient temperature (operation) | -20 °C ... 50 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |
| Mounting position | Any |
| Assembly instructions | In rows with zero spacing |
| Operating mode | 100% operating factor |
| Degree of protection | IP20 |
| Inflammability class in acc. with UL 94 (housing) | V0 |
| Standards/regulations | DIN VDE 0110 |
| Rated surge voltage / insulation | Basic insulation |

Certificates / Approvals

Approval logo



requested approbations

| | |
|---------------|------|
| Certification | GOST |
|---------------|------|

Accessories

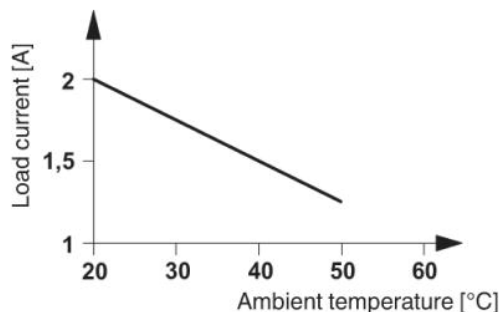
| Item | Designation | Description |
|------|-------------|-------------|
|------|-------------|-------------|

Marking

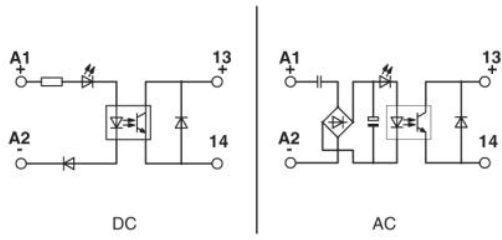
| | | |
|---------|-------------|--------------------------|
| 2947585 | EMG-SGKS 10 | Equipment marker, narrow |
|---------|-------------|--------------------------|

Drawings

Diagram



Circuit diagram



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