

EMG 17-OV- 24DC/ 24DC/2

Order No.: 2946803

The illustration shows version EMG 17-OV, with short-circuit proof DC voltage output, max. 2 A




<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2946803>

Power optocoupler, with light indicator and protection circuits in the input and output circuits, input: 24 V DC, output: short-circuit resistant, 10-30 V DC/max. 2 A



Commercial data

| | |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| GTIN (EAN) |  4 017918 082444 |
| sales group | G111 |
| Pack | 10 pcs. |
| Customs tariff | 85364190 |
| Catalog page information | Page 129 (IF-2009) |

Product notes

WEEE/RoHS-compliant since:
06/13/2006



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Technical data

Input data

| | |
|------------------------------------------------------|-------------|
| Nominal input voltage U_N | 24 V DC |
| Input voltage range in reference to U_N | 0.8 ... 1.2 |
| Switching threshold "0" signal in reference to U_N | ≤ 0.4 |

| | |
|------------------------------------------------------|--------------------------------------|
| Switching threshold "1" signal in reference to U_N | ≥ 0.8 |
| Typical input current at U_N | 3.5 mA |
| Typical response time | 120 μ s |
| Typical turn-off time | 400 μ s |
| Status display | Yellow LED |
| Type of protection | Protection against polarity reversal |
| | Surge protection |
| Protective circuit/component | Polarity protection diode |
| | Varistor |
| Transmission frequency | 1000 Hz |

Output data

| | |
|--------------------------------------------------|---------------------------------------------|
| Output nominal voltage | 24 V DC |
| Output nominal voltage range | 10 V DC ... 30 V DC |
| Limiting continuous current | 2 A (see derating curve) |
| Leakage current | 150 μ A |
| Peak offstate voltage | 33 V DC (Collector-emitter reverse voltage) |
| Current limitation at short-circuits | > 2 A (short-circuit resistant) |
| Voltage drop at max. limiting continuous current | ≤ 0.3 V |
| Output circuit | 3-conductor, ground-referenced |
| Indication | Red LED |
| Type of protection | Protection against polarity reversal |
| | Free running |
| | Surge protection |
| Protective circuit/component | Polarity protection diode |
| | Damping diode |
| | Suppressor diode |

Connection data

| | |
|---------------------------------------|---------------------|
| Connection method | 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

| | |
|-----------------------------------------|---------------------------|
| Width | 17.5 mm |
| Height | 75 mm |
| Depth | 102 mm |
| Test voltage input/output | 2.5 kV AC |
| Ambient temperature (operation) | -20 °C ... 60 °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 acc. to UL 94 | V0 |
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| | IEC 62103 |
| Rated surge voltage / insulation | Basic insulation |
| Pollution degree | 2 |
| Surge voltage category | III |

Certificates / Approvals

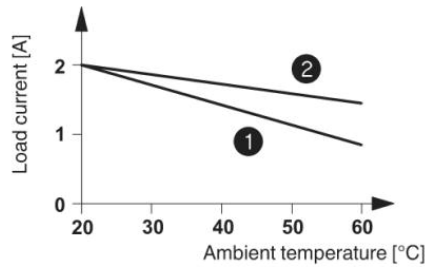


Certification

GOST

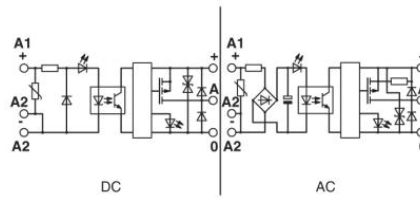
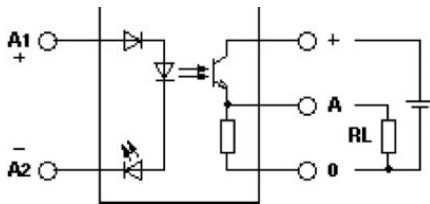
Diagrams/Drawings

Diagram



- ① In rows with zero spacing
- ② stand-alone device

Circuit diagram



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