



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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

Order No.: 2944229

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



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2944229>

Power optocoupler, with light indicator and protection circuits in the input and output circuits, input: 24 V DC, output: 5-36 V DC/ max. 1 A

| Commercial data | |
|--------------------------|--------------------|
| EAN | 4017918081522 |
| Pack | 10 pcs. |
| Customs tariff | 85364190 |
| Weight/Piece | 0.03935 KG |
| Catalog page information | Page 128 (IF-2009) |

Product notes

WEEE/RoHS-compliant since:
04/01/2007



<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

| Input data | |
|--|-------------|
| Nominal input voltage U_N | 24 V DC |
| Input voltage range in reference to U_N | 0.9 ... 1.1 |
| Switching threshold "0" signal, voltage | ≤ 8 V |
| Switching threshold "0" signal in reference to U_N | ≤ 0.21 |
| Switching threshold "1" signal voltage | ≥ 12 V |

| | |
|--|---------------------------|
| Switching threshold "1" signal in reference to U_N | ≥ 0.9 |
| Typical input current at U_N | 4.4 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

| | |
|---------------------------------|------------------|
| Width | 10 mm |
| Height | 102 mm |
| Depth | 75 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



Certification GOST

Accessories

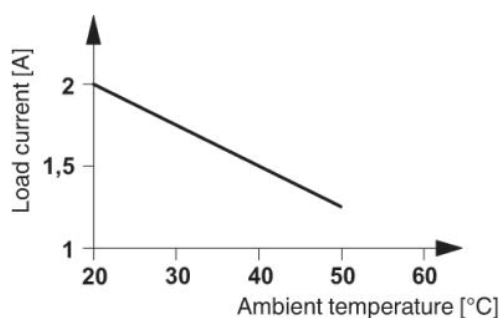
| Item | Designation | Description |
|------|-------------|-------------|
|------|-------------|-------------|

Marking

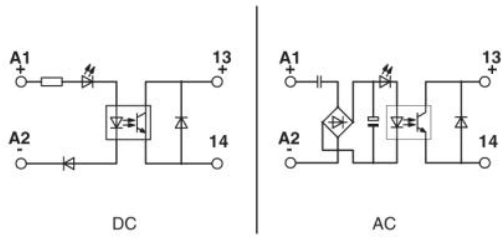
| | | |
|---------|-------------|--------------------------|
| 2947585 | EMG-SGKS 10 | Equipment marker, narrow |
|---------|-------------|--------------------------|

Diagrams/Drawings

Diagram



Circuit diagram



Address

PHOENIX CONTACT Inc., USA
586 Fulling Mill Road
Middletown, PA 17057, USA
Phone (800) 888-7388
Fax (717) 944-1625
<http://www.phoenixcon.com>



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