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Extract from the online catalog

## EMG 17-OV- 24DC/240AC/3

Order No.: 2954235

The illustration shows version EMG 17-OV, with AC voltage output, max. 3 A



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2954235>

Power optocoupler, with light indicator and protection circuits in the input and output circuits, input: 24 V DC, output: 48-280 V AC/ max. 3 A

Commercial data	
EAN	4017918084899
Pack	10 pcs.
Customs tariff	85364190
Weight/Piece	0.08896 KG
Catalog page information	Page 131 (IF-2009)

### Product notes

WEEE/RoHS-compliant since:  
07/07/2006



<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 $\pm 20\%$
Switching threshold "0" signal in reference to $U_N$	$\leq 0.4$
Switching threshold "1" signal in reference to $U_N$	$\geq 0.8$
Typical input current at $U_N$	3.6 mA

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Typical response time	(max. one half cycle - zero-voltage crossing)
Typical turn-off time	(max. one half cycle - zero-current crossing)
Operating voltage display	Yellow LED
Name of protection	Polarity protection
	Surge protection
Protective circuit/component	Polarity protection diode
	Varistor
Transmission frequency	25 Hz

**Output data**

Output nominal voltage	240 V AC
Output nominal voltage range	48 V AC ... 280 V AC (50 Hz ... 60 Hz)
Limiting continuous current	3 A
Min. load current	50 mA
Leakage current	4 mA (in off state)
Surge current	160 A (t = 10 ms)
Max. load value	128 A <sup>2</sup> s (I <sup>2</sup> x t where t = 10 ms)
Peak offstate voltage	600 V (Periodic peak reverse voltage)
Voltage drop at max. limiting continuous current	≤ 1 V
Output circuit	2-conductor floating
Name of protection	RC element
	Surge protection
Protective circuit/component	RC element
	Varistor

**Connection data**

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

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### General data

Width	17.5 mm
Height	102 mm
Depth	75 mm
Test voltage input/output	3.5 kV AC
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Mounting position	Horizontal
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
Pollution degree	2
Surge voltage category	III

### Certificates / Approvals

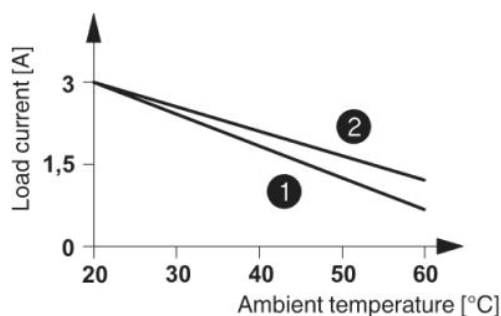


Certification

GOST

### Diagrams/Drawings

Diagram

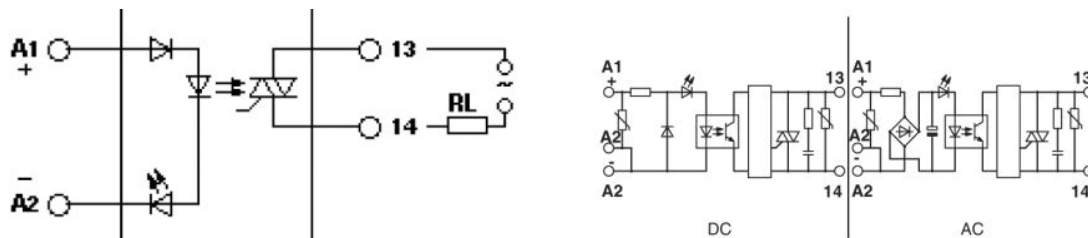


- ① In rows with zero spacing
- ② stand-alone device

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Circuit diagram



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