

EMG 17-OV- 12DC/240AC/3

Order No.: 2954222

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



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Power optocoupler, with light indicator and protection circuits in the input and output circuits, input: 12 V DC, output: 48-280 V AC/ max. 3 A

Commercial data

EAN	4017918084882
Pack	10 pcs.
Customs tariff	85364190
Weight/Piece	0.08943 KG
Catalog page information	Page 131 (IF-2009)

Product notes

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



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Technical data

Input data

Nominal input voltage U_N	12 V DC $\pm 20\%$
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	4.1 mA

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 ² s (I ² 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 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	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

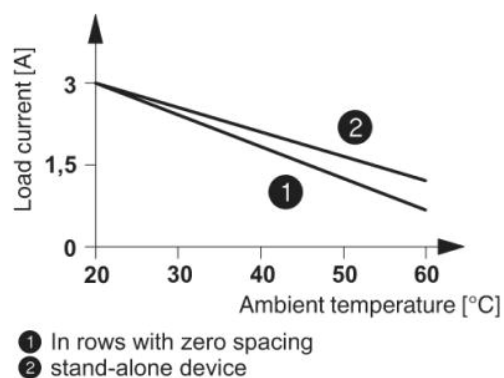


Certification

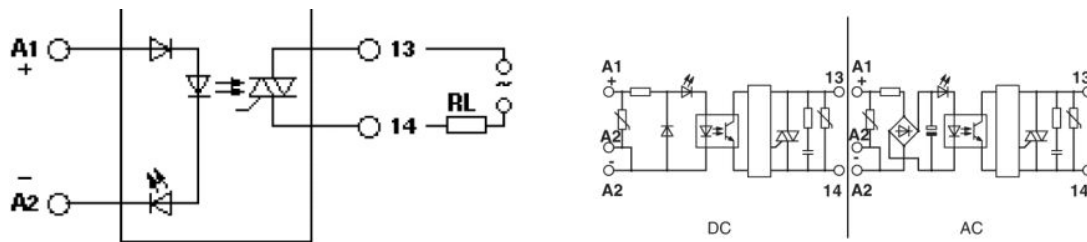
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Diagrams/Drawings

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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