

EMG 12-OV-120AC/240AC/1

Order No.: 2948869

The illustration shows version EMG 12-OV, with AC voltage output, max. 1 A



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Power optocoupler, with light indicator and protection circuits in the input and output circuits, input: 120 V AC, output: 24-280 V AC/max. 1 A



Commercial data

GTIN (EAN)	 4 017918 083533
Note	Made-to-order
sales group	G112
Pack	10 pcs.
Customs tariff	85364900
Catalog page information	Page 139 (IF-2011)

Product notes

WEEE/RoHS-compliant since:
12/13/2006



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Technical data

Input data

Nominal input voltage U_N	120 V AC
Input voltage range in reference to U_N	0.8 ... 1.08
Switching threshold "0" signal in reference to U_N	≤ 0.36

Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	5.5 mA
Typical response time	24 ms (max. one half cycle - zero-voltage crossing)
Typical turn-off time	(max. one half cycle - zero-current crossing)
Status display	Yellow LED
Type of protection	Protection against polarity reversal Surge protection
Protective circuit/component	Polarity protection diode Varistor
Transmission frequency	10 Hz

Output data

Output nominal voltage	240 V AC
Output nominal voltage range	24 V AC ... 280 V AC (50 Hz ... 60 Hz)
Limiting continuous current	1 A (see derating curve)
Min. load current	50 mA
Leakage current	2.5 mA
Surge current	125 A (t = 10 ms)
Max. load value	$78 \text{ A}^2\text{s}$ ($I^2 \times t$ where t = 10 ms)
Peak offstate voltage	600 V (Periodic peak reverse voltage)
Voltage drop at max. limiting continuous current	$\leq 1.5 \text{ V}$
Output circuit	2-wire, floating
Type of protection	RC element
Protective circuit/component	RC element

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	12.5 mm
Height	75 mm
Depth	102 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	Any
Assembly instructions	Mounted in rows with zero spacing: Horizontal/not in rows: Any
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

Certificates / Approvals



Certification GOST

Accessories

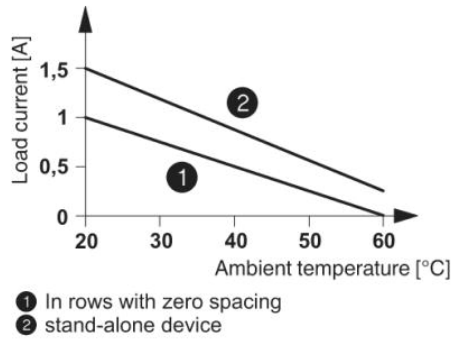
Item	Designation	Description
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Marking

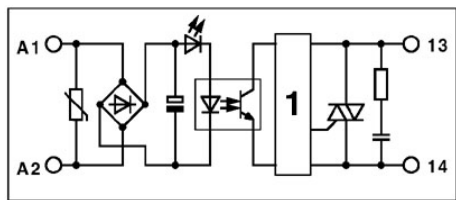
2947035	EMG-GKS 12	Equipment marker, width 12 mm
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Diagrams/Drawings

Diagram



Circuit diagram



1 = zero voltage switch

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