

EMG 12-OV-120AC/ 60DC/1

Order No.: 2948788

The illustration shows version EMG 12-OV, with DC 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: 12-60 V DC/ max. 1 A



Commercial data

GTIN (EAN)	 4 017918 083458
Note	Made-to-order
sales group	G111
Pack	10 pcs.
Customs tariff	85364900
Catalog page information	Page 139 (IF-2011)

Product notes

WEEE/RoHS-compliant since:
09/18/2006



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Technical data

Input data

Nominal input voltage U_N	120 V AC
Input voltage range in reference to U_N	0.9 ... 1.1
Switching threshold "0" signal in reference to U_N	≤ 0.4

Switching threshold "1" signal in reference to U_N	≥ 0.9
Typical input current at U_N	4 mA
Typical response time	3 ms
Typical turn-off time	13 ms
Status display	Yellow LED
Type of protection	Protection against polarity reversal
	Surge protection
Protective circuit/component	Polarity protection diode
Transmission frequency	10 Hz

Output data

Output nominal voltage	60 V DC
Output nominal voltage range	12 V DC ... 60 V DC
Limiting continuous current	1 A (see derating curve)
Peak offstate voltage	60 V DC
Voltage drop at max. limiting continuous current	1.2 V
Output circuit	2-wire, floating
Type of protection	Protection against polarity reversal
	Surge protection
Protective circuit/component	Polarity protection 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	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	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

Certificates / Approvals



Certification

GOST

Accessories

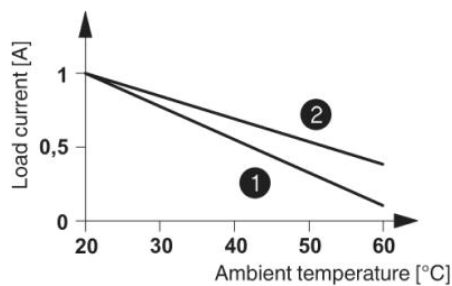
Item	Designation	Description
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Marking

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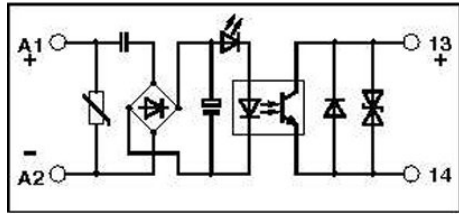
Diagrams/Drawings

Diagram



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

Circuit diagram



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