

EMG 10-OV- 12DC/24DC/1 - Solid-state relay module



2944216

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Power solid-state relay, with LED and protective circuit in input and output circuits, input: 12 V DC, output: 5 - 36 V DC/max. 1 A

Commercial Data

Item number	2944216
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK61C2
Catalog Page	Page 138 (IF-2011)
GTIN	4017918081515
Weight per Piece (including packing)	38.35 g
Weight per Piece (excluding packing)	38.35 g
Customs tariff number	85364190
Country of origin	DE

Technical Data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Product type	Solid-state relay module
Application	Output function
Operating mode	100% operating factor

Insulation characteristics

Insulation	Basic insulation
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Electrical properties

Test voltage (Input/output)	3.5 kV AC (Input/output)
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Input data

Nominal input voltage U_N	12 V DC
Input voltage range in reference to U_N	0.9 ... 1.1
Input voltage range	10.8 V DC ... 13.2 V DC
Switching threshold "0" signal in reference to U_N	≤ 0.33
Switching threshold "1" signal in reference to U_N	≥ 0.9
Typical input current at U_N	4 mA
Typical response time	0.1 ms
Typical turn-off time	0.2 ms
Status display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode
Transmission frequency	500 Hz

Output data

Contact type	1 N/O contact
Design of digital output	electronic
Output nominal voltage	24 V DC
Output voltage range	5 V DC ... 36 V DC
Limiting continuous current	1 A (see derating curve)
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

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Protective circuit	Reverse polarity protection; Polarity protection diode
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Connection data

Input side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12

Output side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12

Dimensions

Width	10 mm
Height	75 mm
Depth	102 mm

Material specifications

Flammability rating according to UL 94	V0
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Standards and regulations

Standards/regulations	IEC 60664
	EN 50178

Mounting

Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

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