EMG 17-OV-TTL/ 24DC/2 - Solid-state relay module

2943259

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Power solid-state relay, with LED and protective circuit in input and output circuits, input: TTL 5 V DC, output: short-circuit-proof, 24 V DC/max. 2 A

Commercial Data

Item number	2943259
Packing unit	10 pc
Minimum order quantity	1 pc
Sales Key	CK6
Product Key	CK61C2
Catalog Page	Page 141 (IF-2011)
GTIN	4017918107543
Weight per Piece (including packing)	54.4 g
Weight per Piece (excluding packing)	54.4 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

Product properties

Product type	Solid-state relay module
Application	TTL signal at input
Operating mode	100% operating factor

Insulation characteristics

Insulation	Basic insulation

Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

Test voltage (Input/output)	2.5 kV AC (Input/output)

Input data

Nominal input voltage U_N	5 V DC (TTL)
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	4 V DC ... 6 V DC
Switching threshold "0" signal, voltage	0.8 V (TTL)
Switching threshold "1" signal voltage	2 V (TTL)
Typical input current at U_N	2.6 mA
Typical response time	170 µs
Typical turn-off time	190 µs
Status display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection; Suppressor diode
	Free running; Freewheeling diode
Auxiliary voltage TTL input	5 V DC ±20 %
Auxiliary current TTL input	2.8 mA
Transmission frequency	1000 Hz

Output data

Contact type	1 N/O contact
Design of digital output	electronic
Output voltage range	10 V DC ... 30 V DC

Limiting continuous current	2 A (see derating curve)
Leakage current	150 µA
Peak offstate voltage	33 V DC (Collector-emitter reverse voltage)
Current limitation at short-circuits	> 2 A (short-circuit-proof)
Voltage drop at max. limiting continuous current	≤ 0.3 V
Output circuit	3-conductor, ground-referenced
Error indication	Red LED
Protective circuit	Reverse polarity protection; Polarity protection diode
	Freewheeling diode; Freewheeling diode
	Surge protection; Suppressor diode

Connection data

Input side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
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 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

Dimensions

Width	17.5 mm
Height	75 mm
Depth	102 mm

Material specifications

Flammability rating according to UL 94	V0

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 60 °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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