

Solid-state relay module - EMG 17-OV- 5DC/ 24DC/2 - 2946780

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Power solid-state relay, with LED and protective circuit in input and output circuits, input: 5 V DC, output: short-circuit-proof, 10 - 30 V DC/max. 2 A

The figure shows version EMG 17-OV, with short-circuit proof DC voltage output, max. 2 A



Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 082420
GTIN	4017918082420

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Input data

Nominal input voltage U_N	5 V DC
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 in reference to U_N	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	4.5 mA
Typical response time	120 μ s
Typical turn-off time	230 μ s

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Input data

Status display	Yellow LED
Type of protection	Reverse polarity protection
	Surge protection
Protective circuit/component	Polarity protection diode
	Varistor
Transmission frequency	1000 Hz

Output data

Output nominal voltage	24 V DC
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
Type of protection	Reverse polarity protection
	Free running
	Surge protection
Protective circuit/component	Polarity protection diode
	Freewheeling diode
	Suppressor diode

Connection data, input side

Connection name	Input side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	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

Connection data, output side

Connection name	Output side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	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

General

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General

Test voltage	2.5 kV AC (Input/output)
Mounting position	any
Assembly instructions	in rows with zero spacing
Operating mode	100% operating factor
Flammability rating according to UL 94	V0

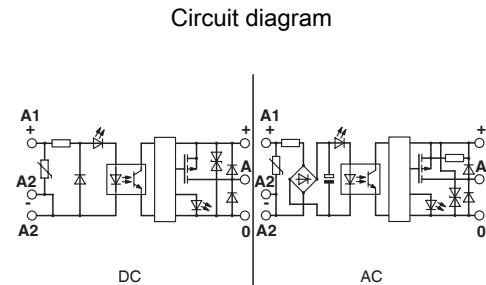
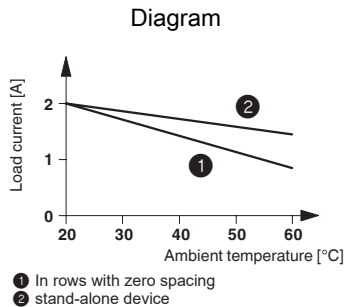
Standards and Regulations

Standards/regulations	IEC 60664
	EN 50178
Insulation	Basic insulation
Pollution degree	2
Overvoltage category	III

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Drawings



Classifications

eCl@ss

eCl@ss 10.0.1	27371604
eCl@ss 11.0	27371604
eCl@ss 5.1	27371000
eCl@ss 6.0	27371600
eCl@ss 7.0	27371604
eCl@ss 9.0	27371604

ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504

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Classifications

ETIM

ETIM 6.0	EC001504
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UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39122326
UNSPSC 19.0	39122326

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