

Solid-state relay module - EMG 10-OV- 24DC/24DC/1 - 2944229

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Power solid-state relay, with LED and protective circuit in input and output circuits, input: 24 V DC, output: 5 - 36 V DC/max. 1 A

The figure shows version EMG 10-OV, with DC voltage output, max. 1 A



Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 081522
GTIN	4017918081522
Weight per Piece (excluding packing)	39.350 g
Custom tariff number	85364190
Country of origin	Germany

Technical data

Note

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

Width	10 mm
Height	75 mm
Depth	102 mm

Ambient conditions

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

Input data

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Input data

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.9 ... 1.1
Input voltage range	21.6 V DC ... 26.4 V DC
Switching threshold "0" signal in reference to U_N	≤ 0.21
Switching threshold "1" signal in reference to U_N	≥ 0.9
Typical input current at U_N	4.4 mA
Typical response time	0.1 ms
Typical turn-off time	0.2 ms
Status display	Yellow LED
Type of protection	Reverse polarity protection
Protective circuit/component	Polarity protection diode
Transmission frequency	500 Hz
Power dissipation for nominal condition	0.11 W

Output data

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-wire, floating
Type of protection	Reverse polarity protection
Protective circuit/component	Polarity protection diode

General

Test voltage input/output	3.5 kV AC
	3.5 kV AC
Mounting position	any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Degree of protection	IP20
Flammability rating according to UL 94	V0

Connection data

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

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Technical data

Connection data 2

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

Standards and Regulations

Standards/regulations	IEC 60664
	EN 50178
Insulation	Basic insulation
Flammability rating according to UL 94	V0

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 5.1	27371000
eCl@ss 6.0	27371600
eCl@ss 7.0	27371604
eCl@ss 8.0	27371604
eCl@ss 9.0	27371604

ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 5.0	EC001504
ETIM 6.0	EC001504
ETIM 7.0	EC001504

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542

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Classifications

UNSPSC

UNSPSC 13.2	39122326
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Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approval details

EAC		TR_TS_D_00573_c
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EAC		TR_TS_S_00010_c
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Accessories

Accessories

Marking material - EMG-SGKS 10 - 2947585



Equipment marker, narrow
