

Solid-state relay module - EMG 17-OV- 24DC/ 48DC/2 - 2942810

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Solid-state relay interface designed to prevent interference on the control side, input: 24 V DC, output: 48 V DC/2 A

Your advantages

- Use of AC output cards, resulting in residual AC currents
- Resistant to interference currents
- Applications with long control lines
- High relay release voltage



Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 080860
GTIN	4017918080860

Technical data

Note

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

Width	17.5 mm
Height	75 mm
Depth	102 mm

Ambient conditions

Ambient temperature (operation)	-10 °C ... 55 °C
Ambient temperature (storage/transport)	-10 °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	0.8 ... 1.2
Input voltage range	19.2 V DC ... 28.8 V DC
Switching threshold "0" signal, voltage	≤ 16 V DC
Switching threshold "1" signal voltage	≥ 16.8 V DC
Typical input current at U_N	8 mA
Typical response time	20 μ s
Typical turn-off time	200 μ s
Status display	Yellow LED
Type of protection	Reverse polarity protection
Protective circuit/component	Polarity protection diode
Transmission frequency	300 Hz
Power dissipation for nominal condition	0.19 W

Output data

Output nominal voltage	48 V DC
Output voltage range	12 V DC ... 48 V DC
Limiting continuous current	2 A (see derating curve)
Maximum inrush current	5 A ($t = 1$ s)
Peak offstate voltage	60 V DC (Collector-emitter reverse voltage)
Voltage drop at max. limiting continuous current	1.1 V
Output circuit	3-conductor, ground-referenced
Type of protection	Reverse polarity protection
	Surge protection
Protective circuit/component	Polarity protection diode
	Suppressor diode

General

Test voltage input/output	3.5 kV AC
	3.5 kV AC
Assembly instructions	Mounted in rows with zero spacing: Horizontal/not in rows: Any
Operating mode	100% operating factor
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
Pollution degree	2
Overvoltage category	III

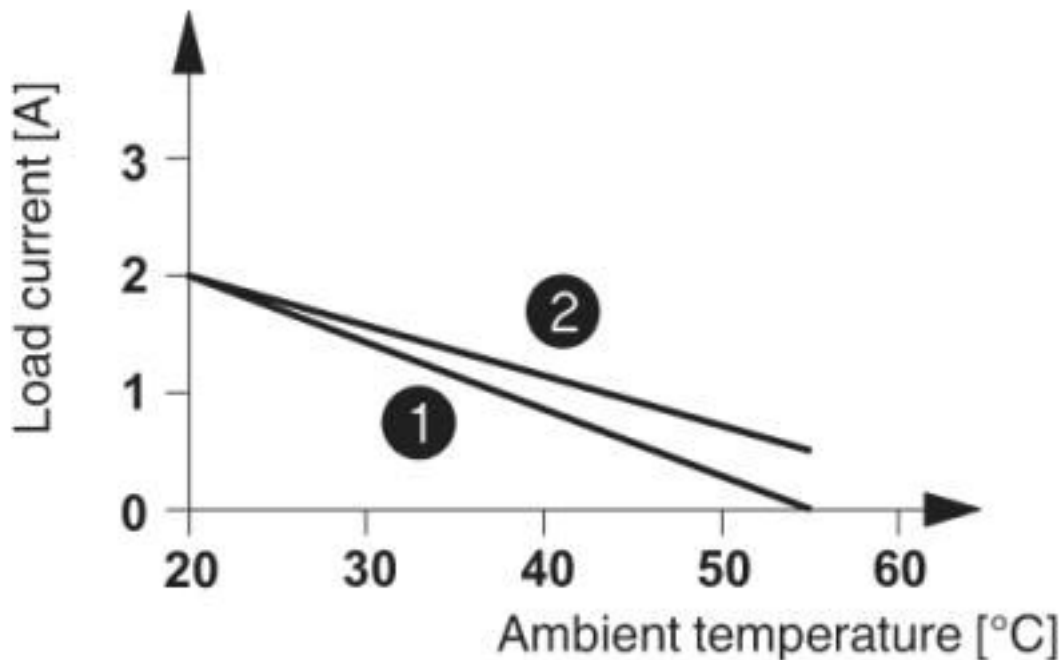
Environmental Product Compliance

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

Drawings

Solid-state relay module - EMG 17-OV- 24DC/ 48DC/2 - 2942810

Diagram



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

Classifications

eCl@ss

eCl@ss 10.0.1	27371604
eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27371000
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

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Classifications

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39122326
UNSPSC 18.0	39122326
UNSPSC 19.0	39122326
UNSPSC 20.0	39122326
UNSPSC 21.0	39122326

Approvals


Approvals


Approvals

EAC / EAC

Ex Approvals

Approval details

EAC		TR_TS_D_00573_c
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EAC		RU*C- DE.*08.B.00010
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