

Solid-state relay module - EMG 17-OV- 24DC/240AC/3 - 2954235

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Power solid-state relay, with LED and protective circuit in input and output circuits, input: 24 V DC, output: 48 - 280 V AC/max. 3 A

The figure shows version EMG 17-OV, with AC voltage output, max. 3 A



Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 084899
GTIN	4017918084899

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)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Degree of protection	IP20

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

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Technical data

Input data

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	3.6 mA
Typical response time	10 ms
Typical turn-off time	10 ms
Operating voltage display	Yellow LED
Type of protection	Reverse polarity protection
	Surge protection
Protective circuit/component	Polarity protection diode
	Varistor
Transmission frequency	25 Hz

Output data

Output nominal voltage	240 V AC
Output voltage range	48 V AC ... 280 V AC (50 Hz ... 60 Hz)
Limiting continuous current	3 A (see derating curve)
Min. load current	50 mA
Leakage current	4 mA (in off state)
Surge current	160 A ($t = 10$ ms)
Max. load value	$128 \text{ A}^2\text{s}$ ($I^2 \times t$ where $t = 10$ ms)
Peak offstate voltage	600 V (Periodic peak reverse voltage)
Voltage drop at max. limiting continuous current	≤ 1 V
Output circuit	2-conductor, floating
Type of protection	RC element
	Surge protection
Protective circuit/component	RC element
	Varistor

General

Test voltage	3.5 kV AC (Input/output)
Mounting position	horizontal
Assembly instructions	in rows with zero spacing
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

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Technical data

Connection data

Conductor cross section AWG	24 ... 12
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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

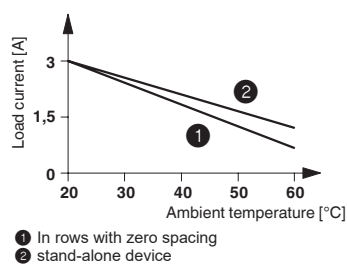
Standards/regulations	IEC 60664
	EN 50178
Insulation	Basic insulation
Pollution degree	2
Overvoltage category	III

Environmental Product Compliance

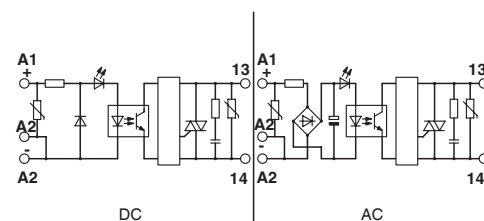
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Drawings

Diagram



Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27371604
eCl@ss 11.0	27371604
eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27371000

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Classifications

eCl@ss

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
ETIM 6.0	EC001504
ETIM 7.0	EC001504

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	39122300

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approval details

EAC		TR_TS_D_00573_c
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Approvals

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