

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

Product Features

- RC protective circuit
- EMG-17-OV, short-circuit-proof with indicator LED
- Protective circuit in input and output
- Zero voltage switch
- Status indicator
- Electrical isolation



Key commercial data

package_quantity	10
GTIN	4017918084899

Technical data

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
Switching threshold "0" signal in reference to U_N	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8

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Input data

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	Protection against polarity reversal
Type of protection	Surge protection
Protective circuit/component	Polarity protection diode
Protective circuit/component	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 A ² s (I ² x 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-wire, floating
Type of protection	RC element
Type of protection	Surge protection
Protective circuit/component	RC element
Protective circuit/component	Varistor

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

General

Test voltage input/output	3.5 kV AC
Test voltage input/output	3.5 kV AC
Mounting position	Horizontal
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor

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General

Inflammability class according to UL 94	V0
Standards/regulations	IEC 60664
Standards/regulations	EN 50178
Standards/regulations	IEC 62103
Rated surge voltage / insulation	Basic insulation
Pollution degree	2
Surge voltage category	III

classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371001

ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 5.0	EC001504

UNSPSC

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

approvals

GOST /

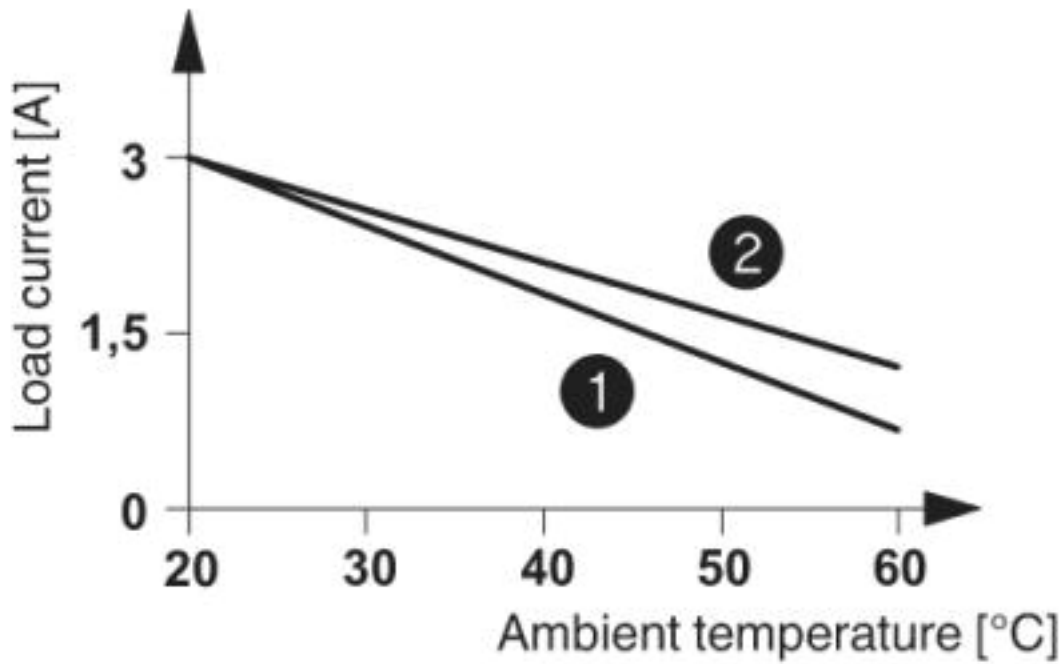
Approval details



Drawings

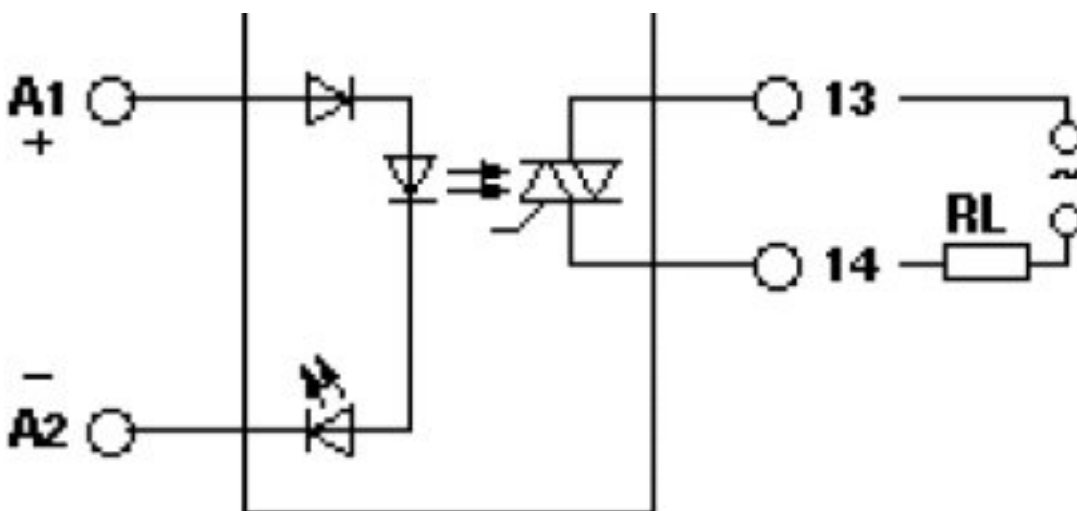
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Diagram



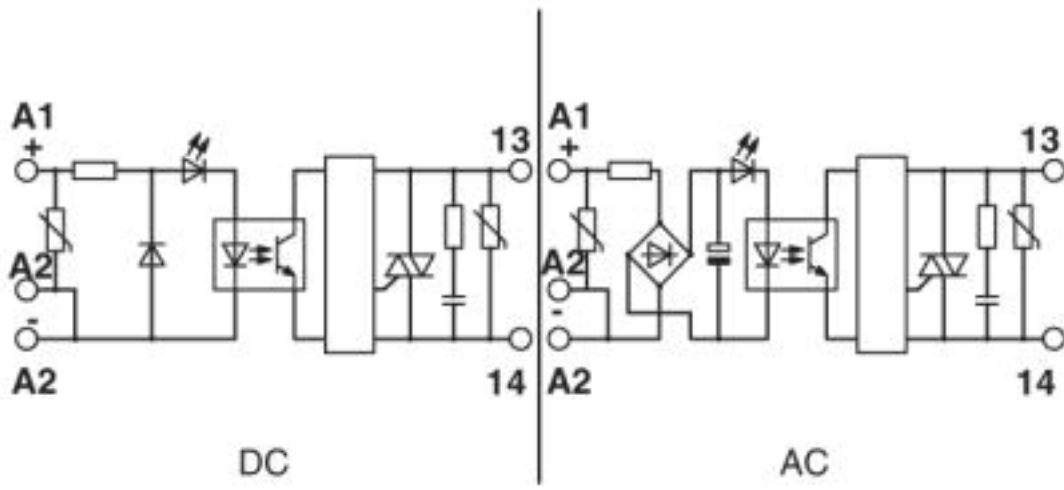
- ① In rows with zero spacing
- ② stand-alone device

Circuit diagram



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Circuit diagram



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