

Solid-state relay module - EMG 17-OV- 60DC/240AC/3 - 2954248

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Power solid-state relay, with LED and protective circuit in input and output circuits, input: 48 - 60 V DC, output: 48 - 280 V AC/max. 3 A

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



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	93.89 g
Custom tariff number	85364190
Country of origin	Germany

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	60 V DC
Input voltage range in reference to U_N	0.64 ... 1.2
Switching threshold "0" signal in reference to U_N	≤ 0.32

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Input data

Switching threshold "1" signal in reference to U_N	≥ 0.64
Typical input current at U_N	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-wire, floating
Type of protection	RC element
	Surge protection
Protective circuit/component	RC element
	Varistor

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

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Connection data, output side

Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

General

Test voltage input/output	3.5 kV AC
	3.5 kV AC
Mounting position	horizontal
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Flammability rating according to UL 94	V0
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage/insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

Standards and Regulations

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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

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Classifications

ETIM

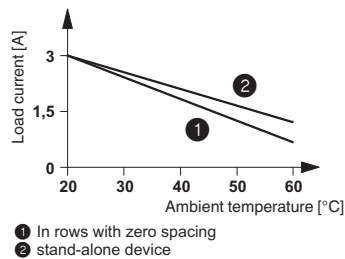
ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 5.0	EC001504

UNSPSC

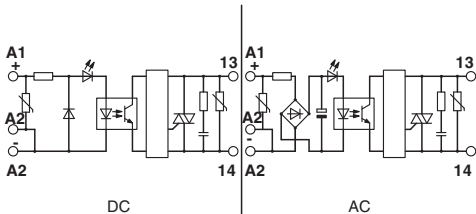
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UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39121542

Drawings

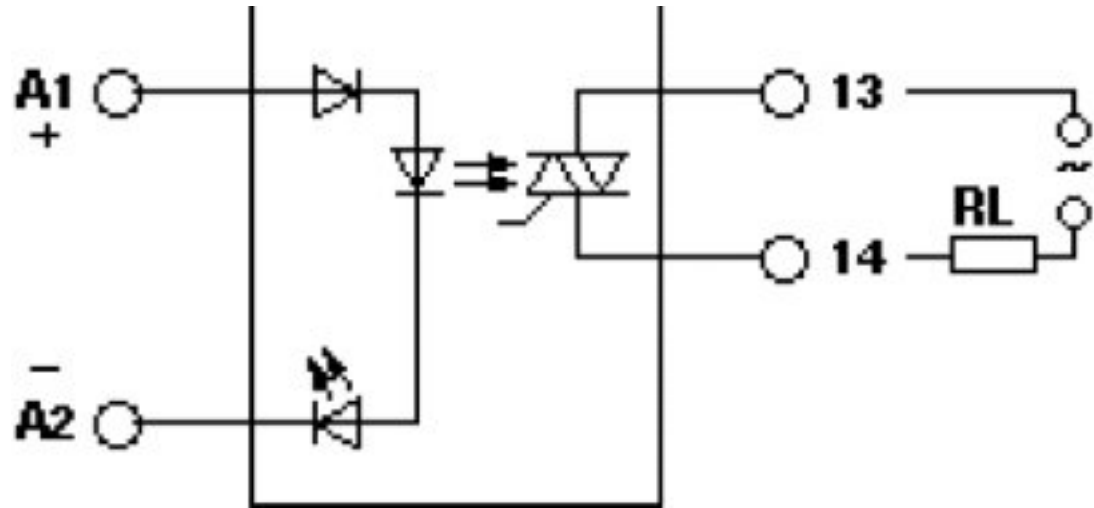
Diagram



Circuit diagram



Circuit diagram



Mouser Electronics

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