Solid-state relay module - EMG 17-OV-230AC/240AC/3 - 2954280

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

Power solid-state relay, with LED and protective circuit in input and output circuits, input: 230 V AC, output: 48 - 280 V AC/max. 3 A

Product Features

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

Key commercial data

Packing unit	1 pc
GTIN	4 017918 084943
Weight per Piece (excluding packing)	90.66 GRM
Custom tariff number	85364900
Country of origin	Germany

Technical data

Dimensions

Width	17.5 mm
Height	75 mm
Depth	102 mm

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Technical data

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	230 V AC
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
Typical input current at U_N	3 mA
Typical response time	10 ms
Typical turn-off time	10 ms
Operating voltage display	Yellow LED
Type of protection	Protection against polarity reversal
	Surge protection
Protective circuit/component	Polarity protection diode
	Varistor
Transmission frequency	10 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^2s (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
	Surge protection
Protective circuit/component	RC element
	Varistor

Connection data

Connection method	Screw connection
Stripping length	8 mm

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Technical data

Connection data

Screw thread	M3
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	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
Inflammability class according to UL 94	V0
Standards/regulations	IEC 60664
	EN 50178
	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

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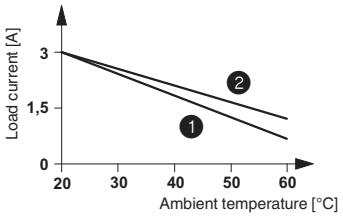
Classifications

UNSPSC

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

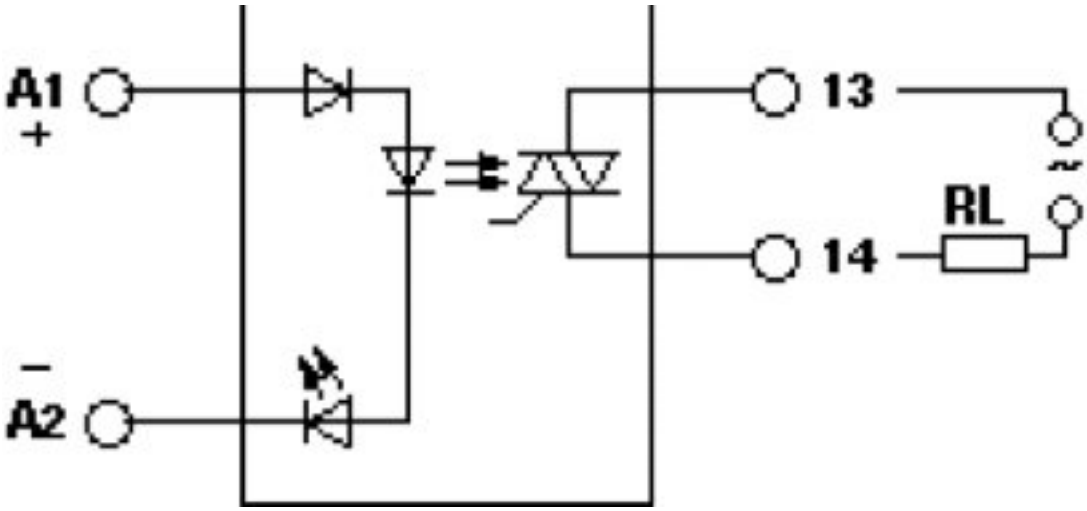
Drawings

Diagram



1 In rows with zero spacing
2 stand-alone device

Circuit diagram



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Circuit diagram