

Solid-state relay module - EMG 17-OV-230AC/ 48DC/2 - 2942823

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Solid-state relay interface designed to prevent interference on the control side, input: 230 V AC, output: 48 V DC/2 A

The illustration shows version EMG 17-OV- 24DC/ 48DC/2

Product Features

- 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	1 pc
Weight per Piece (excluding packing)	95.89 GRM
Custom tariff number	85364900
Country of origin	Germany

Technical data

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

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Technical data

Input data

Nominal input voltage U_N	230 V AC
Input voltage range in reference to U_N	0.8 ... 1.1
Switching threshold "0" signal, voltage	≤ 155 V AC
Switching threshold "1" signal voltage	≥ 180 V AC
Typical input current at U_N	9 mA
Typical response time	25 ms (at $U_N = 24$ V AC)
Typical turn-off time	35 ms (at $U_N = 24$ V AC)
Status display	Yellow LED
Type of protection	Protection against polarity reversal
Protective circuit/component	Polarity protection diode
Transmission frequency	3 Hz

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	Protection against polarity reversal
	Surge protection
Protective circuit/component	Polarity protection diode
	Suppressor diode

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
	3.5 kV AC

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General

Assembly instructions	Mounted in rows with zero spacing: Horizontal/not in rows: Any
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

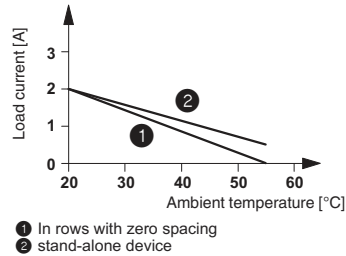
UNSPSC

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

Drawings

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Diagram



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

Circuit diagram

