

EMG 10-OE-230AC/48DC/100/SO218 - Solid-state relay module



2311700

<https://www.phoenixcontact.com/us/products/2311700>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Input solid-state relay, with LED and protective circuit in input and output circuits, input: 230 V AC, output: 4 - 48 V DC/max. 35 mA, customer-specific version for 50 Hz triggering

The figure shows version EMG 10-OE, with DC voltage output, max. 100 mA

Commercial data

Item number	2311700
Packing unit	10 pc
Minimum order quantity	50 pc
Product key	DK61CY
GTIN	4046356287326
Weight per piece (including packing)	39.22 g
Weight per piece (excluding packing)	39.22 g
Country of origin	DE

EMG 10-OE-230AC/48DC/100/SO218 - Solid-state relay module



2311700

<https://www.phoenixcontact.com/us/products/2311700>

Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
----------	---

Product properties

Product type	Solid-state relay module
--------------	--------------------------

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	01.04.2026
------------------------------	------------

Electrical properties

Test voltage (Input/output)	3.5 kV AC (Input/output)
-----------------------------	--------------------------

Input data

Nominal input voltage U_N	230 V AC
Input voltage range in reference to U_N	0.9 ... 1.1
Input voltage range	207 V AC ... 253 V AC
Typical input current at U_N	3 mA
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection
Transmission frequency	50 Hz

Output data

Design of digital output	electronic
Output nominal voltage	48 V DC
Output voltage range	4 V DC ... 48 V DC
Limiting continuous current	35 mA
Voltage drop at max. limiting continuous current	0.9 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection

Connection data

Input side

Connection method	Screw connection
-------------------	------------------

EMG 10-OE-230AC/48DC/100/SO218 - Solid-state relay module



2311700

<https://www.phoenixcontact.com/us/products/2311700>

Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	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

Output side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	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

Dimensions

Item dimensions

Width	10 mm
Height	75 mm
Depth	102 mm

Material specifications

Color	green (RAL 6021)
-------	------------------

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
---------------------------------	------------------

Standards and regulations

Standards/regulations	DIN VDE 0110
	DIN VDE 0106-101

Mounting

Mounting type	DIN rail mounting
Mounting position	any

EMG 10-OE-230AC/48DC/100/SO218 - Solid-state relay module



2311700

<https://www.phoenixcontact.com/us/products/2311700>

Classifications

ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

ETIM

ETIM 10.0	EC001504
-----------	----------

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

EMG 10-OE-230AC/48DC/100/SO218 - Solid-state relay module



2311700

<https://www.phoenixcontact.com/us/products/2311700>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	3eee3b49-8ded-4354-a238-34322fba4fb

EF3.1 Climate Change

CO2e kg	1.563 kg CO2e
---------	---------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com