

EMG 10-OE- 12DC/ 48DC/100 - Solid-state relay module

2948898
<https://www.phoenixcontact.com/gb/products/2948898>

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: 12 V DC, output: 4 - 48 V DC/max. 100 mA

Commercial data

Item number	2948898
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CK61C1
Product key	CK61C1
Catalog page	Page 141 (IF-2011)
GTIN	4017918083564
Weight per piece (including packing)	37.97 g
Weight per piece (excluding packing)	37.97 g
Customs tariff number	85364190
Country of origin	DE

EMG 10-OE- 12DC/ 48DC/100 - Solid-state relay module



2948898

<https://www.phoenixcontact.com/gb/products/2948898>

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
Application	Output function
Operating mode	100% operating factor

Insulation characteristics

Insulation	Basic insulation
------------	------------------

Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

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

Input data

Nominal input voltage U_N	12 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	9.6 V DC ... 14.4 V DC
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	10 mA
Typical response time	20 μ s
Typical turn-off time	100 μ s
Status display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection
Transmission frequency	500 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output nominal voltage	48 V DC
Output voltage range	4 V DC ... 48 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	0.9 V

EMG 10-OE- 12DC/ 48DC/100 - Solid-state relay module



2948898

<https://www.phoenixcontact.com/gb/products/2948898>

Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection

Connection data

Input 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

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

Width	10 mm
Height	75 mm
Depth	102 mm

Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Standards and regulations

Standards/regulations	IEC 60664
	EN 50178

Mounting

Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

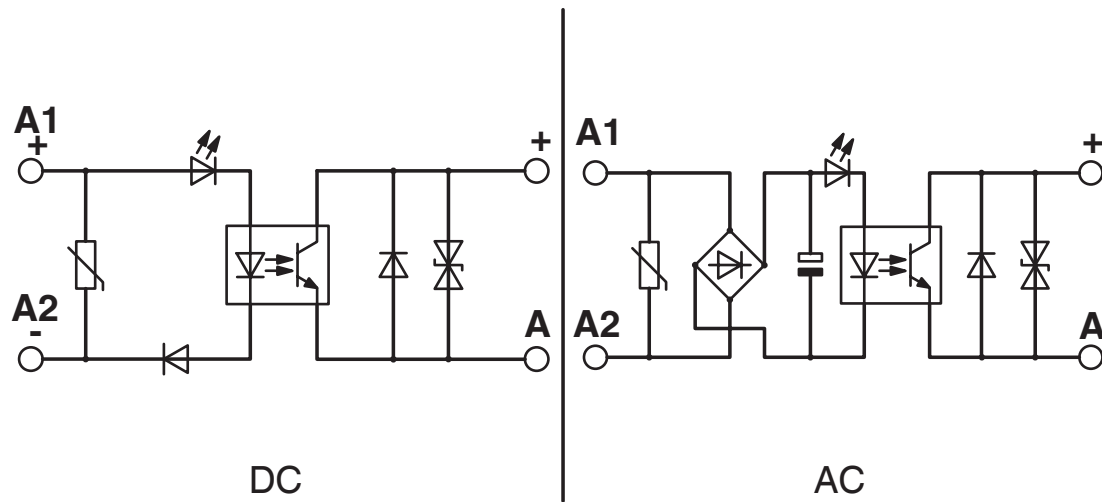
EMG 10-OE- 12DC/ 48DC/100 - Solid-state relay module

2948898

<https://www.phoenixcontact.com/gb/products/2948898>

Drawings

Circuit diagram

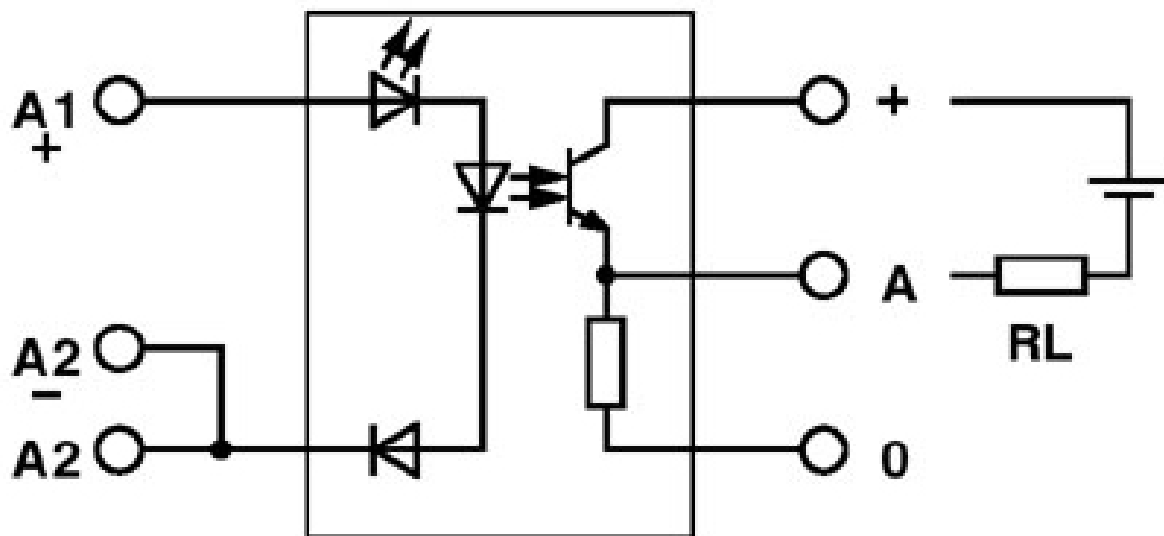


EMG 10-OE- 12DC/ 48DC/100 - Solid-state relay module

2948898

<https://www.phoenixcontact.com/gb/products/2948898>

Circuit diagram

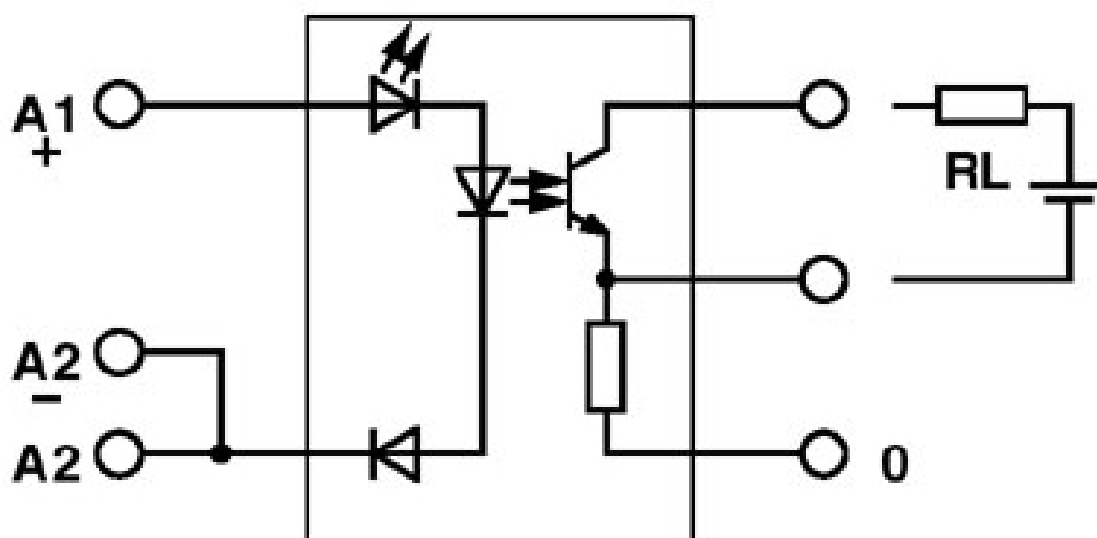


EMG 10-OE- 12DC/ 48DC/100 - Solid-state relay module

2948898

<https://www.phoenixcontact.com/gb/products/2948898>

Circuit diagram



EMG 10-OE- 12DC/ 48DC/100 - Solid-state relay module



2948898

<https://www.phoenixcontact.com/gb/products/2948898>

Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2948898>



EAC

Approval ID: TR_TS_D_00573_c



EAC

Approval ID: RU*C-DE.*08.B.00010

EMG 10-OE- 12DC/ 48DC/100 - Solid-state relay module



2948898

<https://www.phoenixcontact.com/gb/products/2948898>

Classifications

ECLASS

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-13.0	27371604

ETIM

ETIM 9.0	EC001504
----------	----------

UNSPSC

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

EMG 10-OE- 12DC/ 48DC/100 - Solid-state relay module



2948898
<https://www.phoenixcontact.com/gb/products/2948898>

Environmental product compliance

REACH SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

EMG 10-OE- 12DC/ 48DC/100 - Solid-state relay module



2948898

<https://www.phoenixcontact.com/gb/products/2948898>

Accessories

EMG-GKS 12 - Marking material

2947035

<https://www.phoenixcontact.com/gb/products/2947035>



Device marking label, width: 12 mm, area: 12 x 8 mm, e.g. for EML(10x7) R adhesive marking material

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk