

#### 2942810

https://www.phoenixcontact.com/us/products/2942810

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Solid-state relay interface designed to prevent interference on the control side, input: 24 V DC, output: 48 V DC/2 A

### Your advantages

- · Use of AC output cards, resulting in residual AC currents
- · Resistant to interference currents
- · Applications with long control lines
- High relay release voltage

### Commercial data

Item number	2942810
Packing unit	10 рс
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	CK61C2
Catalog page	Page 447 (C-5-2019)
GTIN	4017918080860
Weight per piece (including packing)	87.6 g
Weight per piece (excluding packing)	86.82 g
Customs tariff number	85364190
Country of origin	DE

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# Technical data

### Notes

Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
roduct properties	
Product type	Solid-state relay module
Application	Filter to prevent interference
Operating mode	100% operating factor
Insulation characteristics	
Insulation	Basic insulation
Insulation characteristics	
Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2
lectrical properties	
Maximum power dissipation for nominal condition	0.19 W
Test voltage (Input/output)	3.5 kV AC (Input/output)
iput data	
Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range in reference to $U_N$	0.8 1.2
Input voltage range	19.2 V DC 28.8 V DC
Switching threshold "0" signal, voltage	≤ 16 V DC
Switching threshold "1" signal voltage	≥ 16.8 V DC
Typical input current at U <sub>N</sub>	8 mA
Typical response time	20 µs
Typical turn-off time	200 µs
Status display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode
Transmission frequency	300 Hz

#### Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
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)

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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
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection; Suppressor diode

### Connection data

Input side	
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm <sup>2</sup> 4 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 12

#### Output side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	М3
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section flexible	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 12

#### Dimensions

Width	17.5 mm
Height	75 mm
Depth	102 mm

#### Material specifications

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

#### Environmental and real-life conditions

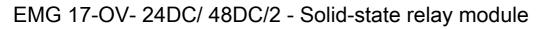
Degree of protection IP20   Ambient temperature (operation) -10 °C 55 °C   Ambient temperature (storage/transport) -10 °C 70 °C	Ambient conditions	
	Degree of protection	IP20
Ambient temperature (storage/transport) -10 °C 70 °C	Ambient temperature (operation)	-10 °C 55 °C
	Ambient temperature (storage/transport)	-10 °C 70 °C

#### Standards and regulations

Standards/regulations	IEC 60664
	EN 50178

#### Mounting

Mounting type	DIN rail mounting
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Assembly instructions

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



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# Classifications

### ECLASS

ECLASS-12.0 27371604	
ECLASS-13.0 27371604	

### ETIM

	ETIM 9.0	EC001504		
UNSPSC				
	UNSPSC 21.0	39122300		



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## Environmental product compliance

EACh SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride
China RoHS	Environmentally Existently Lies Deviad - 50 years
	Environmentally Friendly Use Period = 50 years

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