

2944258

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Power solid-state relay, with LED and protective circuit in input and output circuits, input: 220 V DC, output: 5 - 36 V DC/max. 1 A

### Commercial data

Item number	2944258
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK61C1
GTIN	4017918081553
Weight per piece (including packing)	38.53 g
Weight per piece (excluding packing)	38.53 g
Customs tariff number	85364900
Country of origin	DE



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### Technical data

#### Notes

Utilization re	estriction

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

## Product properties

Application Output function	Product type	Solid-state relay module
	Application	Output function
Operating mode 100% operating factor	Operating mode	100% operating factor

#### Insulation characteristics

Insulation	Basic insulation
Data management status	
Date of last data management	11.08.2025

### Electrical properties

Test voltage (Input/output)	3.5 kV AC (Input/output)
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### Input data

Nominal input voltage U <sub>N</sub>	220 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	0.9 1.1
Input voltage range	198 V DC 242 V DC
Switching threshold "0" signal in reference to $\boldsymbol{U}_{N}$	≤ 0.27
Switching threshold "1" signal in reference to $\boldsymbol{U}_{N}$	≥ 0.9
Typical input current at U <sub>N</sub>	3.5 mA
Typical response time	0.1 ms
Typical turn-off time	0.2 ms
Status display	LED (yellow)
Protective circuit	Reverse polarity protection; Polarity protection diode
Transmission frequency	500 Hz

### Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output nominal voltage	24 V DC
Output voltage range	5 V DC 36 V DC
Limiting continuous current	1 A (see derating curve)
Surge current	2 A (t = 1 s)
Peak offstate voltage	45 V DC (Collector-emitter reverse voltage)
Voltage drop at max. limiting continuous current	≤ 1 V
Output circuit	2-conductor, floating



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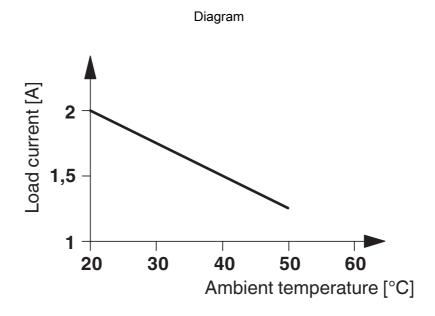
Protective circuit	Reverse polarity protection; Polarity protection diode
onnection data	
Input side	
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm² 4 mm²
Conductor cross-section flexible	0.2 mm² 2.5 mm²
Conductor cross-section AWG	24 12
Output side	
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm² 4 mm²
Conductor cross-section flexible	0.2 mm² 2.5 mm²
Conductor cross-section AWG	24 12
mensions	
Width	10 mm
Height	75 mm
Depth	102 mm
aterial specifications	
Color	green (RAL 6021)
Flammability rating according to UL 94	V0
nvironmental and real-life conditions  Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-20 °C 50 °C
Ambient temperature (storage/transport)	-20 °C 70 °C
andards and regulations	
Standards/regulations	IEC 60664
	EN 50178
ounting	
Mounting type	DIN rail mounting
	in rows with zero spacing
Assembly note	in rows with zero spacing



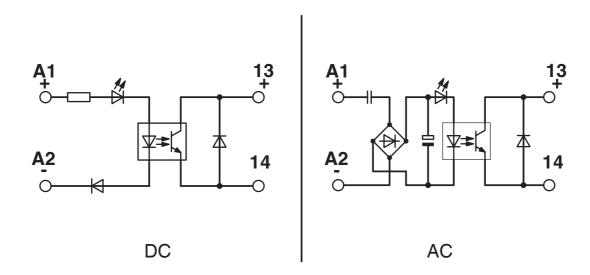
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## Drawings



### Circuit diagram





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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2944258



EAC

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



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## Classifications

#### **ECLASS**

	ECLASS-13.0	27371604		
	ECLASS-15.0	27371604		
ETIM				
	ETIM 9.0	EC001504		
UNSPSC				
UNSPSC				
	UNSPSC 21.0	39122300		



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## Environmental product compliance

#### EU RoHS

Yes
6(c), 7(a)
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.
Hexahydromethylphthalic anhydride(CAS: n/a)
Lead(CAS: 7439-92-1)
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