

2946654

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Relay module, with soldered-in remanence miniature switching relay, with positive switching diode wiring, contacts (AgSnO): small to large loads, 1 changeover contact, input voltage 48 V

Commercial data

Item number	2946654
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK61C2
GTIN	4017918118037
Weight per piece (including packing)	46.47 g
Weight per piece (excluding packing)	46.94 g
Customs tariff number	85364190
Country of origin	DE



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Technical data

Notes

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

Product properties

Product type	Relay Module
Product family	EMG
Application	Universal
Operating mode	100% operating factor
Mechanical service life	approx. 10 ⁷ cycles

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Safe isolation, reinforced insulation
Overvoltage category	III
Pollution degree	2

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	12.09.2025
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Electrical properties

Maximum power dissipation for nominal condition	0.41 W
Test voltage (Winding/contact)	4 kV _{rms} (50 Hz, 1 min., winding/contact)

Air clearances and creepage distances between the power circuits

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Rated insulation voltage	250 V AC
Rated surge voltage	4 kV

Input data

Coil side

Nominal input voltage U _N	48 V DC
Input voltage range	38.4 V DC 52.8 V DC (20 °C)
Drive and function	bistable
Drive (polarity)	polarized
Typical input current at U _N	typ. 8.5 mA
Typical response time	5 ms
Typical release time	5 ms
Pulse time range	30 ms 5 s
Coil voltage	24 V DC



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Protective circuit	Freewheeling diode; Freewheeling diode
	Reverse polarity protection; Polarity protection diode
ut data	
n data	
tching	
Contact switching type	1 changeover contact
ype of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
linimum switching voltage	5 V (at 100 mA)
	24 V (At 1 mA)
imiting continuous current	6 A
Maximum inrush current	8 A
fin. switching current	1 mA (at 24 V)
	100 mA (At 5 V)
nterrupting rating (ohmic load) max.	144 W (at 24 V DC)
	43 W (at 48 V DC)
	42 W (at 60 V DC)
	55 W (at 110 V DC)
	100 W (at 220 V DC)
	1500 VA (for 250 V AC)
tching: when the gold layer is destroyed	
Maximum switching voltage	250 V AC/DC
imiting continuous current	6 A
Maximum inrush current	8 A
nterrupting rating (ohmic load) max.	140 W (at 24 V DC)
	40 W (at 48 V DC)
	35 W (at 60 V DC)
	30 W (at 110 V DC)

Connection data

Coil 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

55 W (at 220 V DC) 1500 VA (for 250 V AC)

Contact side

Outlast side	
Connection method	Screw connection



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Assembly note

Mounting position

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
Dimensions	
Width	17.5 mm
Height	75 mm
Depth	62.5 mm
Material specifications Color	groon (PAL 6021)
COIOI	green (RAL 6021)
Environmental and real-life conditions Ambient conditions	
Ambient temperature (operation)	-40 °C 50 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Standards and regulations	
Air clearances and creepage distances between the power circuits	
Standards/regulations	DIN EN 50178
Mounting	
Mounting type	DIN rail mounting
5 7,	<u> </u>

in rows with zero spacing

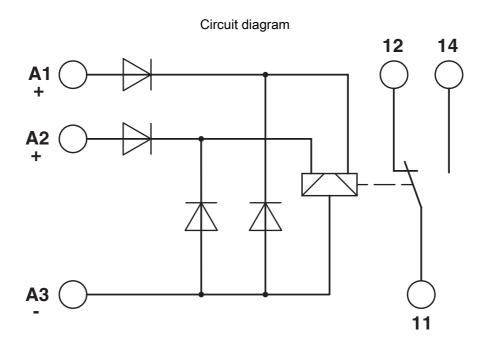
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Drawings





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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2946654



EAC

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



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Classifications

ECLASS

	ECLASS-13.0	27371601	
	ECLASS-15.0	27371601	
ETIM			
	ETIM 9.0	EC001437	
UNSPSC			
	UNSPSC 21.0	39122300	



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a)
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.)	Lead(CAS: 7439-92-1)
SCIP	61a7def1-2f5c-4146-87b1-56032ebd7fbf

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