

2941439

https://www.phoenixcontact.com/us/products/2941439

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Relay module, with soldered-in miniature switching relay, contact (AgNi+Au): small to large loads, 2 changeover contacts, input voltage 24 V AC/DC

#### Your advantages

- · Safe isolation between coil and contact side
- · Integrated input circuit and interference suppression circuit

#### Commercial data

Item number	2941439
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	DK61C2
GTIN	4017918080433
Weight per piece (including packing)	56.96 g
Weight per piece (excluding packing)	56.96 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. 2x 10 <sup>7</sup> cycles

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

Insulation	Basic insulation
	Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths
Overvoltage category	II
Pollution degree	2

#### Insulation characteristics: Air clearances and creepage distances between input and contact circuit (or output contact current path)

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

#### Data management status

Date of last data management	2.09.2025
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#### Electrical properties

Maximum power dissipation for nominal condition	0.43 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (Contact/contact)	1 kV AC (50 Hz, 1 min., changeover contact/changeover contact)

#### Air clearances and creepage distances between the power circuits

Rated insulation voltage	260 V AC
Rated surge voltage	2.3 kV

#### Air clearances and creepage distances between input and contact circuit (or output contact current path)

Rated insulation voltage	260 V AC
Rated surge voltage	6 kV

#### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	24 V AC/DC



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Input voltage range	19.2 V AC/DC 26.4 V AC/DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U <sub>N</sub>	18 mA
Typical response time	8 ms
Typical release time	10 ms
Protective circuit	Bridge rectifier; Bridge rectifier
Operating voltage display	Yellow LED

#### Output data

#### Switching

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Limiting continuous current	50 mA
Maximum inrush current	0.2 A
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)

#### Switching: when the gold layer is destroyed

Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC/DC
Limiting continuous current	5 A
Maximum inrush current	6 A
Interrupting rating (ohmic load) max.	120 W (at 24 V DC)
	95 W (at 48 V DC)
	60 W (at 60 V DC)
	40 W (at 110 V DC)
	55 W (at 220 V DC)
	1250 VA (for 250 V AC)

#### 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

### Contact side

Contact side	
Connection method	Screw connection



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Mounting type

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
mensions	
Width	17.5 mm
Height	75 mm
Depth	62.5 mm
aterial specifications	
Color vironmental and real-life conditions	green (RAL 6021)
Color	green (RAL 6021)
Color  vironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)	-20 °C 40 °C
Color vironmental and real-life conditions Ambient conditions	
Color  vironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  andards and regulations	-20 °C 40 °C -20 °C 70 °C
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DIN rail mounting

any

in rows with zero spacing

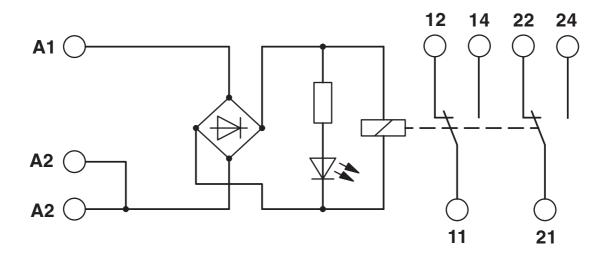


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### Drawings

#### Circuit diagram





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#### **Approvals**

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2941439



**cUL Recognized**Approval ID: E238705



**UL Recognized**Approval ID: E238705



EAC

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



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### Classifications

#### **ECLASS**

	ECLASS-13.0	27371601
	ECLASS-15.0	27371601
	-11.4	
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	2167c78c-b889-4a19-b711-7a0a9136a928



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#### Accessories

EMG-GKS 12 - Marking material

2947035

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

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