

2964403

<https://www.phoenixcontact.com/us/products/2964403>

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Relay module, with soldered-in miniature switching relay, contacts (AgNi): Medium to large loads, 1 N/O contact, input voltage 230 V AC/DC

Your advantages

- Integrated input circuit and interference suppression circuit

Commercial data

Item number	2964403
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	DK61C2
GTIN	4017918107468
Weight per piece (including packing)	37.53 g
Weight per piece (excluding packing)	35.9 g
Customs tariff number	85364900
Country of origin	DE

EMG 10-REL/KSR-230/ 1-LC - Relay module



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Technical data

Notes

Utilization restriction

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

Product type	Relay Module
Product family	EMG
Application	Universal
Operating mode	100% operating factor
Mechanical service life	approx. 2×10^7 cycles

Insulation characteristics

Insulation	Basic insulation
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	1.1 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)
Rated insulation voltage	260 V AC
Rated surge voltage	4 kV

Input data

Coil side

Nominal input voltage U_N	230 V AC/DC
Input voltage range	184 V AC/DC ... 253 V AC/DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U_N	4.8 mA
Typical response time	7 ms
Typical release time	11 ms
Protective circuit	Bridge rectifier; Bridge rectifier Surge protection; Varistor
Operating voltage display	Yellow LED

Output data

Switching

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Contact switching type	1 N/O contact
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V
Limiting continuous current	6 A
Maximum inrush current	8 A
Min. switching current	100 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	60 W (at 48 V DC)
	45 W (at 60 V DC)
	35 W (at 110 V DC)
	55 W (at 220 V DC)
	1500 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 mm ² ... 4 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12

Contact 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	10.6 mm
Height	75 mm
Depth	53.5 mm

Material specifications

Color	green (RAL 6021)
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 40 °C

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Ambient temperature (storage/transport)	-20 °C ... 70 °C
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Standards and regulations

Standards/regulations	IEC 60664
	EN 50178

Mounting

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

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Drawings

Connection diagram



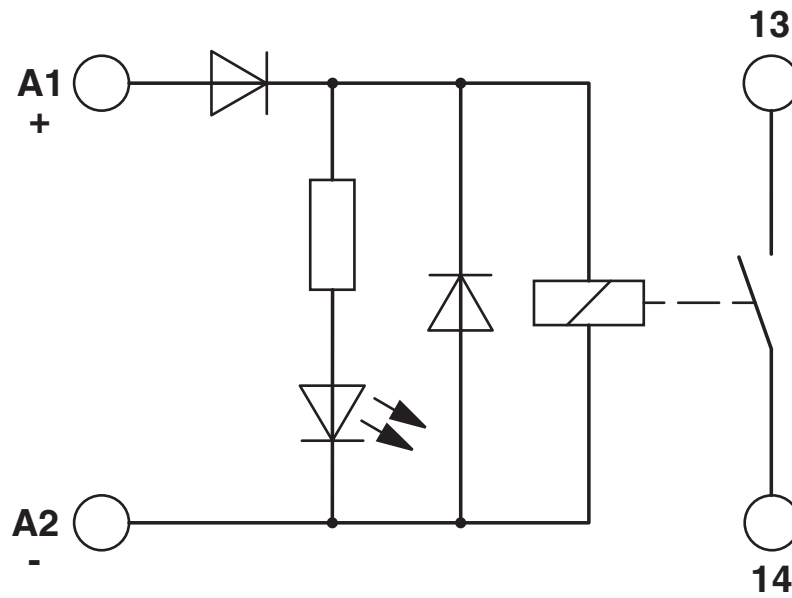
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Circuit diagram



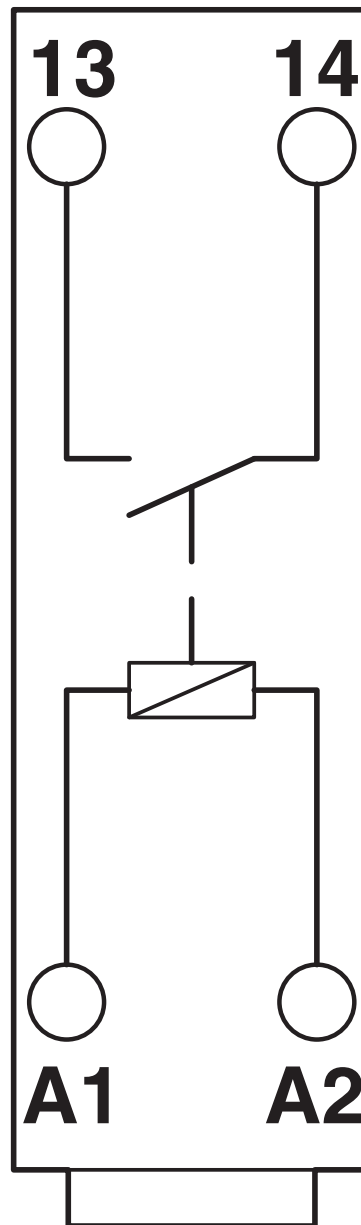
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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2964403>



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

ETIM

ETIM 9.0	EC001437
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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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	e340b323-4339-4980-b9d5-46ec3ae3a1d0

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