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

2964416

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Relay module, with soldered-in miniature switching relay, gold contact for small loads, 1 N/O contact, input voltage 230 V AC/DC

Your advantages

- Integrated input circuit and interference suppression circuit

Commercial data

Item number	2964416
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	DK61C2
GTIN	4017918107475
Weight per piece (including packing)	36.755 g
Weight per piece (excluding packing)	36 g
Customs tariff number	85364900
Country of origin	DE

Technical data

Notes

Utilization restriction

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 10^7 cycles

Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	01.04.2026

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

Contact switching type	1 N/O contact
Type of switch contact	Double contact
Contact material	AgPd60, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 µV
Limiting continuous current	0.5 A
Maximum inrush current	0.2 A
Min. switching current	20 µA
Interrupting rating (ohmic load) max.	5 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	125 V AC
	150 V DC
Limiting continuous current	2 A
Maximum inrush current	2 A
Interrupting rating (ohmic load) max.	29 W (at 24 V DC)
	29 W (at 48 V DC)
	29 W (at 60 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

Contact side

Connection method	Screw connection
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Conductor cross-section AWG	24 ... 12

Dimensions

Item dimensions

Width	10.6 mm
Height	75 mm
Depth	53.5 mm

Material specifications

Color	green (RAL 6021)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 40 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Standards and regulations

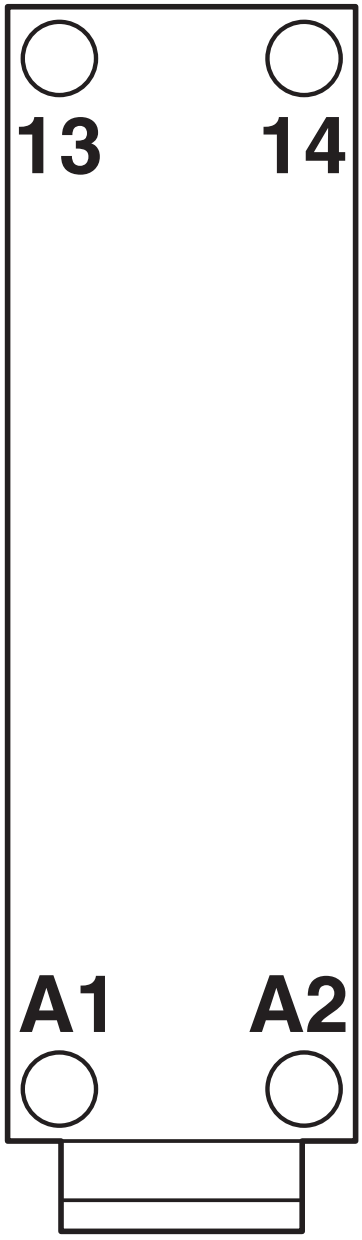
Standards/regulations	IEC 60664
	EN 50178

Mounting

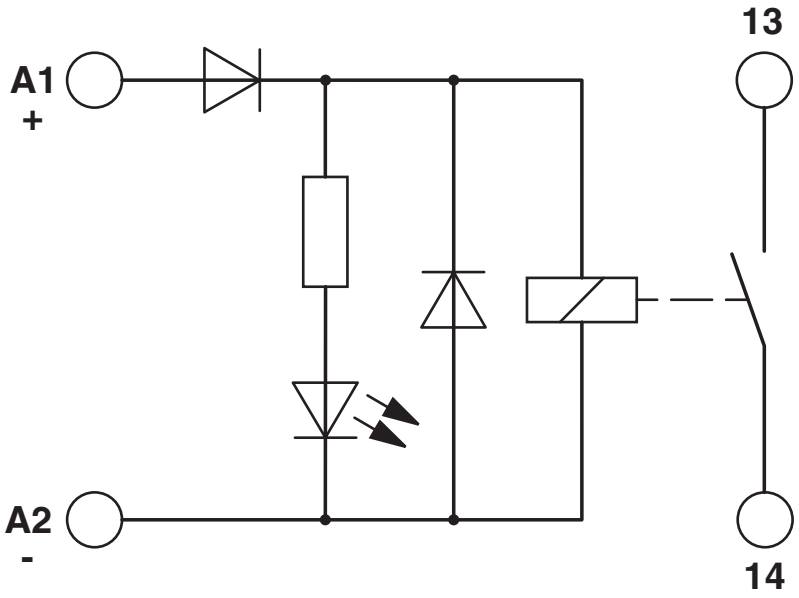
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

Drawings

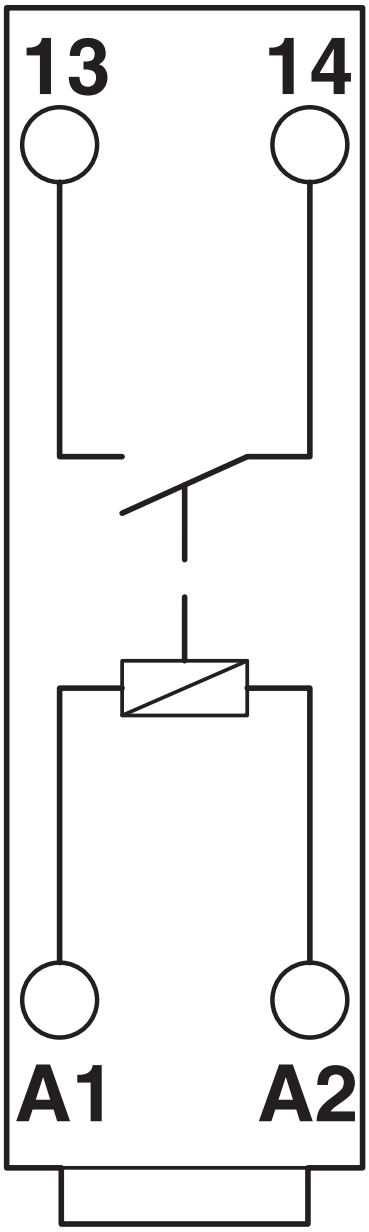
Connection diagram



Circuit diagram



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2964416

cUL Recognized
Approval ID: E238705

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Classifications

ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

ETIM

ETIM 10.0	EC001437

UNSPSC

UNSPSC 21.0	39122300

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	751777af-8775-4420-a764-9ed230c85d6b

EF3.1 Climate Change

CO2e kg	0.325 kg CO2e

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