

# EMG 10-REL/KSR-120/ 1-LC AU - Relay module



2964461

<https://www.phoenixcontact.com/us/products/2964461>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Relay module, with soldered-in miniature switching relay, gold contact for small loads, 1 N/O contact, input voltage 120 V AC/DC

## Your advantages

- Integrated input circuit and interference suppression circuit

## Commercial data

Item number	2964461
Packing unit	10 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK61C2
GTIN	4017918125134
Weight per piece (including packing)	37.6 g
Weight per piece (excluding packing)	37.6 g
Customs tariff number	85364900
Country of origin	DE

2964461

<https://www.phoenixcontact.com/us/products/2964461>

## Technical data

### Product properties

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

### Insulation characteristics

Insulation	Basic insulation
------------	------------------

### Data management status

Date of last data management	01.04.2026
------------------------------	------------

### Electrical properties

Maximum power dissipation for nominal condition	0.6 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 $U_N$	120 V AC/DC
Input voltage range	96 V AC/DC ... 132 V AC/DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at $U_N$	5 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 $\mu$ V
Limiting continuous current	0.5 A

# EMG 10-REL/KSR-120/ 1-LC AU - Relay module



2964461

<https://www.phoenixcontact.com/us/products/2964461>

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
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 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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 <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12

## 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

# EMG 10-REL/KSR-120/ 1-LC AU - Relay module



2964461

<https://www.phoenixcontact.com/us/products/2964461>

## 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

# EMG 10-REL/KSR-120/ 1-LC AU - Relay module

2964461

<https://www.phoenixcontact.com/us/products/2964461>



## Drawings

Connection diagram



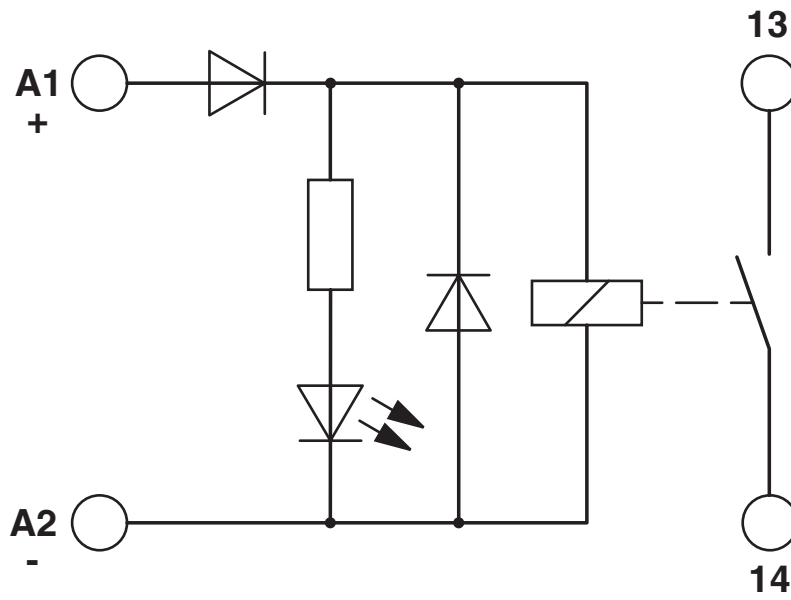
# EMG 10-REL/KSR-120/ 1-LC AU - Relay module

2964461

<https://www.phoenixcontact.com/us/products/2964461>



Circuit diagram



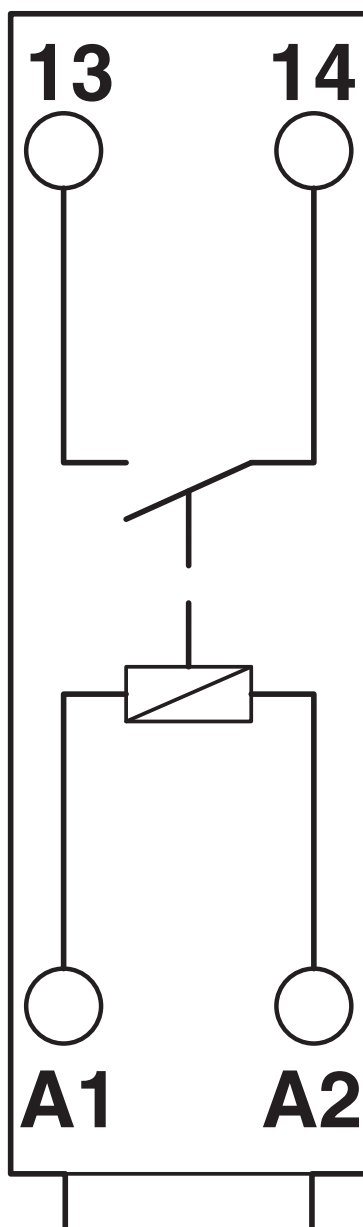
# EMG 10-REL/KSR-120/ 1-LC AU - Relay module

2964461

<https://www.phoenixcontact.com/us/products/2964461>



Circuit diagram



# EMG 10-REL/KSR-120/ 1-LC AU - Relay module



2964461

<https://www.phoenixcontact.com/us/products/2964461>

## Classifications

### ECLASS

ECLASS-13.0

27371601

### ETIM

ETIM 9.0

EC001437

### UNSPSC

UNSPSC 21.0

39122300

# EMG 10-REL/KSR-120/ 1-LC AU - Relay module



2964461

<https://www.phoenixcontact.com/us/products/2964461>

## Environmental product compliance

### 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.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)