

# EMK 12-REL/MSR- 24/1AU - Relay module



2942674

<https://www.phoenixcontact.com/us/products/2942674>

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Customer-specific relay module, 1 N/O contact, 24 V AC/DC input voltage

## Commercial data

Item number	2942674
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK61CY
GTIN	4017918080815
Weight per piece (including packing)	32.82 g
Weight per piece (excluding packing)	32.82 g
Customs tariff number	85364190
Country of origin	DE

## Technical data

### Product properties

Product type	Relay Module
Mechanical service life	3x 10 <sup>7</sup> cycles

Insulation characteristics: Air clearances and creepage distances, input/output

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

Air clearances and creepage distances, input/output

Rated insulation voltage	260 V
Rated surge voltage	4 kV (1.2/50 µs)

### Input data

Coil side

Nominal input voltage U <sub>N</sub>	24 V AC/DC
Input voltage range	19.2 V AC/DC ... 26.4 V AC/DC (20 °C)
Typical input current at U <sub>N</sub>	12 mA
Protective circuit	Bridge rectifier; Bridge rectifier
Operating voltage display	Yellow LED

### Output data

Switching

Contact switching type	Single contact, 1 N/O contact
Type of switch contact	Single contact
Contact material	AgNi 0,15 + HTV (hard gold-plated)
Maximum switching voltage	60 V AC/DC (If the specified maximum values are exceeded, the gold layer will be destroyed.)
Limiting continuous current	0.2 A (If the specified maximum values are exceeded, the gold layer will be destroyed.)
Interrupting rating (ohmic load) max.	12 VA (for 250 V AC)

Switching: when the gold layer is destroyed

Maximum switching voltage	250 V AC/DC
Limiting continuous current	5 A
Interrupting rating (ohmic load) max.	1250 VA (for 250 V AC)

### Connection data

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## 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>
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Conductor cross-section AWG	24 ... 12

## Dimensions

Width	12.5 mm
Height	60 mm
Depth	47.5 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP00
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-20 °C ... 50 °C
Altitude	≤ 2000 m

## Standards and regulations

### Air clearances and creepage distances, input/output

Standards/regulations	DIN EN 50178: 1998-04
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## Mounting

Mounting type	DIN rail mounting
Mounting position	any

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## Classifications

### UNSPSC

UNSPSC 21.0	39122300
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	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)
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