

# EMG 22-B1-REL-G 24/TRN24-AND - Relay module



2298014

<https://www.phoenixcontact.com/us/products/2298014>

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Relay module, with miniature switching relay, with integrated n-p-n transistor control, for low control currents, contact (AgNi 90/10): Medium to large loads, two N/O contacts, nominal control voltage 24 V DC

## Commercial data

Item number	2298014
Packing unit	10 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	DK61Y1
GTIN	4017918483807
Weight per piece (including packing)	82.92 g
Weight per piece (excluding packing)	82 g
Country of origin	DE

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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
Mechanical service life	3x 10 <sup>7</sup> cycles

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

Insulation	Reinforced insulation
Overvoltage category	III
Pollution degree	2

#### Insulation characteristics: Air and creepage distances, output/output

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

#### Data management status

Date of last data management	01.04.2026
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### Electrical properties

Maximum power dissipation for nominal condition	0.5 W
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#### Air clearances and creepage distances, input/output

Rated insulation voltage	260 V
Rated surge voltage	6 kV (1.2/50 µs)

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

Rated insulation voltage	260 V
Rated surge voltage	2.2 kV (1.2/50 µs)

### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range	19.2 V DC ... 26.4 V DC (20 °C)
Typical input current at U <sub>N</sub>	21 mA
Typical response time	12 ms
Typical release time	7 ms
Protective circuit	Reverse polarity protection; Polarity protection diode Freewheeling diode; Freewheeling diode
Operating voltage display	LED

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## Output data

### Switching

Contact switching type	Single contact, 2 N/O contact
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC
Limiting continuous current	4 A
Interrupting rating (ohmic load) max.	96 W (at 24 V DC)
	85 W (at 48 V DC)
	60 W (at 60 V DC)
	44 W (at 110 V DC)
	57 W (at 220 V DC)
	1000 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 <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

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

## Dimensions

### Item dimensions

Width	22.5 mm
Height	75 mm
Depth	100 mm

## Material specifications

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

### Ambient conditions

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Degree of protection	IP20
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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Air and creepage distances, output/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

### ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

### ETIM

ETIM 10.0	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), 7(c)-I

### 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	1c18ac58-837a-41d7-8beb-a13cd4e1def9

### EF3.1 Climate Change

CO2e kg	2.873 kg CO2e
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