

# EMG 22-REL/KSR-W230/21-21 - Relay module



2944795

<https://www.phoenixcontact.com/us/products/2944795>

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Relay module, with soldered-in miniature switching relay, contact (AgNi): medium to large loads, 2 changeover contacts, input voltage 230 V AC/DC

The figure shows version EMG 22,5 REL, with integrated p-n-p transistor control

## Commercial data

Item number	2944795
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	DK61C2
GTIN	4017918081713
Weight per piece (including packing)	61.33 g
Weight per piece (excluding packing)	63.25 g
Customs tariff number	85364900
Country of origin	DE

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## Technical data

### Notes

Notes on operation	At least one functional insulation against adjacent modules is complied with in the support rail direction. If the application has higher requirements on the insulation (basic or reinforced insulation), then these must be realized through suitable measures (e. g., partition plates).
Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area

### Product properties

Product type	Relay Module
Mechanical service life	1x 10 <sup>7</sup> cycles, approximately
Data management status	
Date of last data management	01.04.2026

### Electrical properties

Maximum power dissipation for nominal condition	1.15 W
Test voltage (Winding/contact)	2.5 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	1 V <sub>rms</sub> (50 Hz, 1 min., changeover contact/changeover contact)
Air clearances and creepage distances between the power circuits	
Rated insulation voltage	250 V AC

### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	230 V AC
Input voltage range	195.5 V AC ... 253 V AC (20 °C)
Mains frequency	50 Hz
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U <sub>N</sub>	3.5 mA
Typical response time	4 ms ... 15 ms
Typical release time range	4 ms ... 15 ms
Protective circuit	Varistor
Status display	Glow lamp

### Output data

#### Switching

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi

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Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (10 mA)
Limiting continuous current	5 A
Interrupting rating (ohmic load) max.	70 W (24 V DC)
	40 W (48 V DC)
	35 W (60 V DC)
	30 W (110 V DC)
	55 W (220 V DC)
	750 VA (250 V AC)

## Connection data

Connection method	Screw connection
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## Dimensions

### Item dimensions

Width	22.5 mm
Height	79.4 mm
Depth	60.2 mm

## Material specifications

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

### Ambient conditions

Degree of protection (Relay)	RT III (Relay)
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m

## Standards and regulations

Standards/regulations	EN 50178
	EN 61810-1

### Air clearances and creepage distances between the power circuits

Standards/regulations	DIN EN 50178
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## Mounting

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

### 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	0bb94473-b73e-4555-aabb-09742e847978

### EF3.1 Climate Change

CO2e kg	0.919 kg CO2e
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