

# EMG 75-REL/MR-G220/4X21/SO110 - Relay module



2301684

<https://www.phoenixcontact.com/us/products/2301684>

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Relay module, with soldered-in miniature switching relay, contact (AgNi): medium to large loads, 4 changeover contacts, input voltage 220 V DC

## Commercial data

Item number	2301684
Packing unit	1 pc
Minimum order quantity	10 pc
Product key	DK614Y
GTIN	4017918960742
Weight per piece (including packing)	200 g
Weight per piece (excluding packing)	200 g
Country of origin	DE

## 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

Overvoltage category	III
Pollution degree	2

#### Data management status

Date of last data management	12.09.2025
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### Electrical properties

Test voltage (Winding/contact)	2 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (Contact/contact)	2 kV AC (50 Hz, 1 min., contact/contact)

### Input data

#### Coil side

Nominal input voltage $U_N$	220 V DC
Input voltage range	176 V DC ... 242 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.1
Typical input current at $U_N$	4 mA
Typical response time	9 ms
Typical release time	10 ms
Protective circuit	Free-wheeling diode, polarity protection diode, resistor

### Output data

#### Switching

Contact material	AgNi
Note	4 changeover contacts
Maximum switching voltage	250 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	8 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	85 W (at 48 V DC)
	60 W (at 60 V DC)
	44 W (at 110 V DC)

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	60 W (at 220 V DC)
	1500 VA (for 250 V AC)

## Connection data

### Coil side

Connection method	Screw connection
Stripping length	8 mm
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>

### Contact side

Connection method	Screw connection
Stripping length	8 mm
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>

## Dimensions

Width	75 mm
Height	75 mm
Depth	55 mm

## Material specifications

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

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
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## Standards and regulations

Standards/regulations	IEC 60664
	DIN VDE 0109-11, draft
	DIN VDE 0110
	IEC 60664A

## Mounting

Mounting type	DIN rail mounting
Mounting position	any

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## 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%
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