

# UM122-REL/MR-G220/B08/SO148 - Relay module



2306715

<https://www.phoenixcontact.com/us/products/2306715>

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VARIOFACE module, customer-specific wiring, miniature switching relay for 110 V DC with light indicator

## Commercial data

Item number	2306715
Packing unit	1 pc
Minimum order quantity	5 pc
Note	Made to order (non-returnable)
Product key	DK61Y1
GTIN	4046356039659
Weight per piece (including packing)	622 g
Weight per piece (excluding packing)	590.9 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	approx. $3 \times 10^7$ cycles

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

Insulation	Basic 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

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

Rated insulation voltage	230 V
Rated surge voltage	4 kV (1.2/50 $\mu$ s)

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

Rated insulation voltage	260 V
Rated surge voltage	2.3 kV (1.2/50 $\mu$ s)

### Input data

#### Coil side

Nominal input voltage $U_N$	220 V DC
Input voltage range	187 V DC ... 242 V DC (20 °C)
Typical input current at $U_N$	4 mA
Typical response time	9 ms
Typical release time	10 ms (< 300 ms (with capacitor))
Protective circuit	Freewheeling, polarity protection, resistance, capacitor; Freewheeling diode, polarity protection diode, resistance, capacitor

### Output data

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## Switching

Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	8 A
Interrupting rating (ohmic load) max.	190 W (at 24 V DC)
	100 W (at 48 V DC)
	60 W (at 60 V DC)
	44 W (at 110 V DC)
	60 W (at 220 V DC)
	2000 VA (for 250 V AC)

## Connection data

### Input

Connection method	Screw connection
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

### Output

Connection method	Screw connection
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.4 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

### Item dimensions

Width	141 mm
Height	128 mm
Depth	51 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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### Air and creepage distances, output/output

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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	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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)

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