

# EMG 22-REL/KSR-230/21 - Relay Module



2952855

<https://www.phoenixcontact.com/in/products/2952855>

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Relay module, with soldered-in miniature switching relay, contact (AgNi): medium to large loads, 1 changeover contact, input voltage 230 V AC/DC

## Your advantages

- Safe isolation according to DIN EN 50178 between coil and contact
- Integrated input circuit and interference suppression circuit

## Commercial Data

Item number	2952855
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK6142
Catalog Page	Page 135 (IF-2011)
GTIN	4017918084493
Weight per Piece (including packing)	63.33 g
Weight per Piece (excluding packing)	63.33 g
Customs tariff number	85364900
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
Product family	EMG
Application	Universal
Operating mode	100% operating factor
Mechanical service life	approx. $5 \times 10^7$ cycles

#### Insulation characteristics

Insulation	Basic insulation
	Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths

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	Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths
Overvoltage category	III
Pollution degree	2

### Electrical properties

Maximum power dissipation for nominal condition	1.15 W
Test voltage (Winding/contact)	5 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Test voltage (Contact/contact)	1 kV AC (50 Hz, 1 min., contact/contact)
Rated insulation voltage	260 V AC
Rated surge voltage	4 kV

### Input data

#### Coil side

Nominal input voltage $U_N$	230 V AC/DC
Input voltage range	207 V AC/DC ... 243.8 V AC/DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at $U_N$	5 mA
Typical response time	8 ms
Typical release time	10 ms
Protective circuit	Bridge rectifier; Bridge rectifier
	Varistor; Varistor

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Operating voltage display	Yellow LED
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## Output data

### Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
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.	144 W (at 24 V DC) 58 W (at 48 V DC) 48 W (at 60 V DC) 50 W (at 110 V DC) 80 W (at 220 V DC) 1500 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

### 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	22.5 mm
Height	75 mm
Depth	62.5 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 50 °C

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Ambient temperature (storage/transport)	-20 °C ... 70 °C
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## Standards and regulations

Standards/regulations	EN 50178
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## Mounting

Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

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