

# Relay Module - EMG 22-REL/KSR-230/21/AU - 2949295

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

The illustration shows version EMG 22-REL/KSR- 24/21 AU, with soldered-in miniature switching relay

## Product Features

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



## Key commercial data

package_quantity	10
GTIN	4017918083755

## Technical data

Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Width	22.5 mm
Height	75 mm
Depth	62.5 mm

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

### Coil side

Nominal input voltage $U_N$	230 V AC/DC
Input voltage range in reference to $U_N$	0.9 ... 1.06
Nominal input current at $U_{IN}$	5 mA
Typical response time	8 ms
Typical release time	10 ms

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## Technical data

### Coil side

Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier Bridge rectifier
Protective circuit	Varistor Varistor

### Contact side

Contact type	Single contact, 1-PDT
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC
Maximum switching voltage	36 V DC
Maximum inrush current	50 mA
Limiting continuous current	50 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Note	the following values are applicable if a gold layer is destroyed
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)
Interrupting rating (ohmic load) max.	58 W (at 48 V DC)
Interrupting rating (ohmic load) max.	48 W (at 60 V DC)
Interrupting rating (ohmic load) max.	50 W (at 110 V DC)
Interrupting rating (ohmic load) max.	80 W (at 220 V DC)
Interrupting rating (ohmic load) max.	1500 VA (for 250 V AC)

### General

Test voltage relay winding/relay contact	5 kV <sub>rms</sub> (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	IP20
Mechanical service life	Approx. $5 \times 10^7$ cycles
Standards/regulations	EN 50178
Rated surge voltage / insulation	4 kV / Basic isolation, (safe isolation, reinforced insulation and 6 kV between input circuit and output contact current paths.)
Rated insulation voltage	260 V AC
Pollution degree	2
Surge voltage category	III
Mounting position	Any
Assembly instructions	In rows with zero spacing

### Connection data

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>

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## Technical data

### Connection data

Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	8 mm
Screw thread	M3

## classifications

### eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371001

### ETIM

ETIM 2.0	EC000196
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC000196

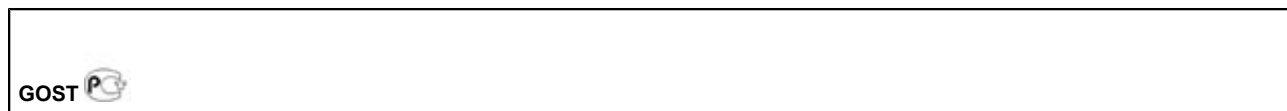
### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

## approvals

GOST /

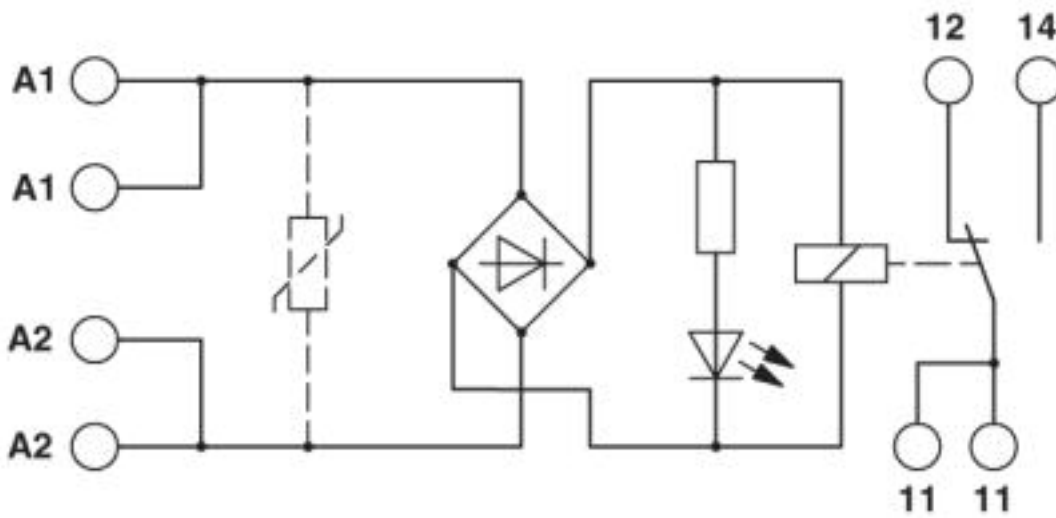
### Approval details



## Drawings

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Circuit diagram



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