

# Relay Module - EMG 22-REL/KSR-230/21/ SO46 - 2940760

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Relay interfaces for protection against interference on the control side, with soldered-in miniature switching relay, contacts (Au): Medium to large loads, 1 PDT, 230 V AC input voltage

## Product Features

- Use of AC output cards, resulting in residual AC currents
- Resistant to interference currents
- High relay release voltage
- Applications with long control lines



## Key commercial data

package_quantity	10
GTIN	4017918080228

## Technical data

### Dimensions

Width	22.5 mm
Height	75 mm
Depth	62.5 mm

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 40 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

### Coil side

Nominal input voltage $U_N$	230 V AC
Input voltage range in reference to $U_N$	0.9 ... 1.1
Nominal input current at $U_{IN}$	18 mA
Typical response time	10 ms
Typical release time	8 ms
Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier Bridge rectifier
Protective circuit	Surge protection Varistor
Protective circuit	RC element RC element

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## Technical data

### Contact side

<b>Contact type</b>	Single contact, 1-PDT
<b>Contact material</b>	AgNi
<b>Maximum switching voltage</b>	250 V AC/DC
<b>Maximum inrush current</b>	8 A
<b>Limiting continuous current</b>	6 A
<b>Interrupting rating (ohmic load) max.</b>	95 W (at 24 V DC)
<b>Interrupting rating (ohmic load) max.</b>	50 W (at 48 V DC)
<b>Interrupting rating (ohmic load) max.</b>	45 W (at 60 V DC)
<b>Interrupting rating (ohmic load) max.</b>	35 W (at 110 V DC)
<b>Interrupting rating (ohmic load) max.</b>	55 W (at 220 V DC)
<b>Interrupting rating (ohmic load) max.</b>	1500 VA (for 250 V AC)

### General

<b>Test voltage relay winding/relay contact</b>	2.5 kV AC (50 Hz, 1 min.)
<b>Mechanical service life</b>	Approx. $2 \times 10^7$ cycles
<b>Standards/regulations</b>	IEC 60664
<b>Standards/regulations</b>	EN 50178
<b>Standards/regulations</b>	IEC 62103
<b>Rated surge voltage / insulation</b>	Basic insulation
<b>Pollution degree</b>	2
<b>Surge voltage category</b>	III
<b>Mounting position</b>	Any

### Connection data

<b>Connection method</b>	Screw connection
<b>Conductor cross section solid min.</b>	0.2 mm <sup>2</sup>
<b>Conductor cross section solid max.</b>	4 mm <sup>2</sup>
<b>Conductor cross section stranded min.</b>	0.2 mm <sup>2</sup>
<b>Conductor cross section stranded max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section AWG/kcmil min.</b>	24
<b>Conductor cross section AWG/kcmil max</b>	12
<b>Stripping length</b>	8 mm
<b>Screw thread</b>	M3

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27371102
<b>eCl@ss 4.1</b>	27371102
<b>eCl@ss 5.0</b>	27371001
<b>eCl@ss 5.1</b>	27371001
<b>eCl@ss 6.0</b>	27371001

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## classifications

### eCl@ss

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

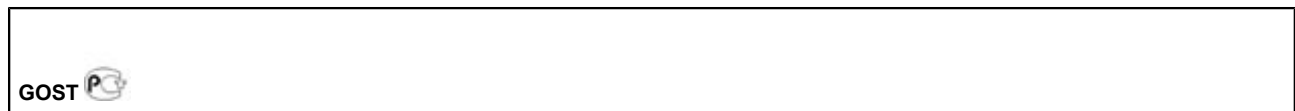
## approvals

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GOST /

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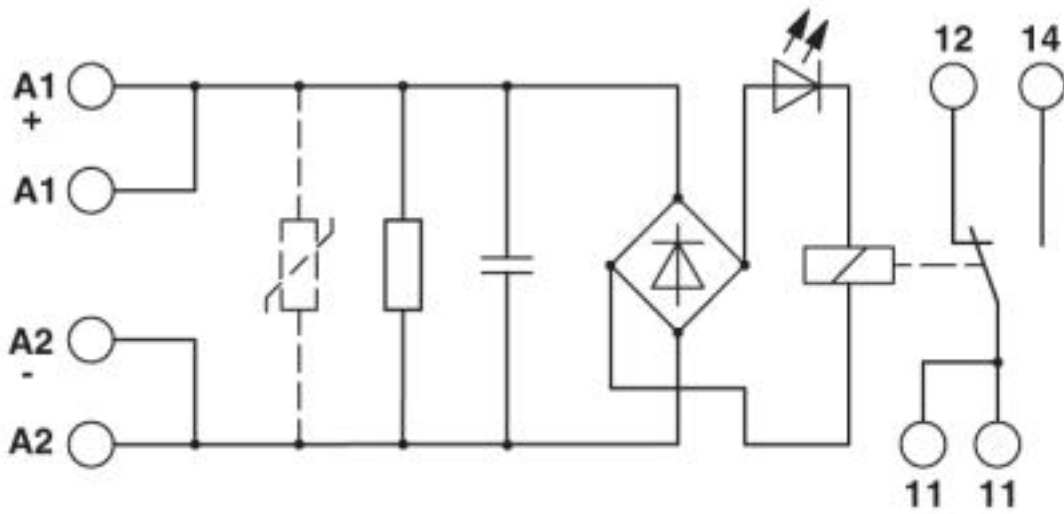
### Approval details



## Drawings

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Circuit diagram



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