

## Hybrid relay - EMG 22-REL/KSR-G 24/TRP 5 - 2949790

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Relay module, with miniature switching relay, with integrated PNP transistor control, for low control currents, contact (AgNi): Medium to large loads, 1 PDT, 5 V DC nominal control voltage


The illustration shows version EMG 22,5 REL, with integrated p-n-p transistor control

### Why buy this product

- ✓ Low control current (terminal block B), type-dependent from 0.5 mA
- ✓ Safe isolation according to DIN EN 50178 between coil and contact
- ✓ Integrated input circuit and interference suppression circuit
- ✓ Type-dependent positive or negative control current



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 083878
GTIN	4017918083878
Weight per Piece (excluding packing)	65.410 g
Custom tariff number	85364190
Country of origin	Germany

### 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
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## Technical data

### Dimensions

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 $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.9 ... 1.1
Nominal control voltage	5 V DC
Minimum control voltage	-2.4 V DC
Maximum control voltage	-5.25 V DC
Minimum control current	1.2 mA
Maximum control current	1.7 mA
Typical input current at $U_N$	21 mA
Typical response time	9 ms
Typical release time	10 ms
Protective circuit	Reverse polarity protection Polarity protection diode
	Free-wheeling diode Damping diode
Operating voltage display	Yellow LED
Power dissipation for nominal condition	0.5 W

### Contact side

Contact type	Single contact, 1-PDT
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Maximum inrush current	8 A
Limiting continuous current	5 A
Interrupting rating (ohmic load) max.	120 W (at 24 V DC)
	60 W (at 48 V DC)
	50 W (at 60 V DC)
	50 W (at 110 V DC)
	80 W (at 220 V DC)
	1250 VA (for 250 V AC)

### General

Test voltage relay winding/relay contact	4 kV AC (50 Hz, 1 min.)
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### Technical data

#### General

Operating mode	100% operating factor
Mechanical service life	Approx. $5 \times 10^7$ cycles
Mounting position	any
Assembly instructions	In rows with zero spacing

#### Connection data input side

Connection name	Coil side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	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

#### Connection data output side

Connection name	Contact side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	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

#### Standards and Regulations

Standards/regulations	IEC 60664
	EN 50178
Insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

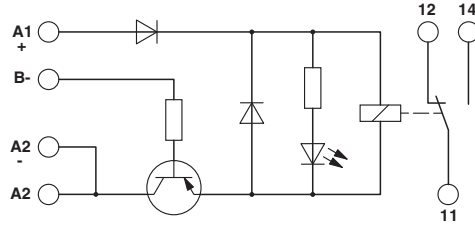
#### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

# Hybrid relay - EMG 22-REL/KSR-G 24/TRP 5 - 2949790

Circuit diagram



## Classifications

eCl@ss

eCl@ss 5.0	27371601
eCl@ss 5.1	27371601
eCl@ss 6.0	27371601
eCl@ss 7.0	27371601
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437
ETIM 5.0	EC001437
ETIM 6.0	EC001437

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39122334

## Approvals

Approvals

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Approvals

EAC

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### Approvals

Ex Approvals

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#### Approval details

EAC		RU C- DE.A*30.B.01082
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### Accessories

#### Accessories

Marking material - EMG-GKS 12 - 2947035



Equipment marker, width 12 mm