

Hybrid relay - EMG 22-REL/KSR-G 24/TRN 5 - 2949787

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Relay module, with miniature switching relay, with integrated NPN 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 n-p-n transistor control

Product Features

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



Key commercial data

Packing unit	1 pc
GTIN	 4 017918 083861
Weight per Piece (excluding packing)	64.84 GRM
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
Height	75 mm

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Technical data

Dimensions

Depth	62.5 mm
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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
Typical input current at U_N	21 mA
Minimum control voltage	2.7 V DC
Maximum control voltage	5.25 V DC
Minimum control current	2.6 mA
Maximum control current	7.7 mA
Typical response time	9 ms
Typical release time	10 ms
Operating voltage display	Yellow LED
Protective circuit	Protection against polarity reversal Polarity protection diode
	Free-wheeling diode Damping diode

Contact side

Contact type	Single contact, 1-PDT
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.)
Operating mode	100% operating factor
Mechanical service life	Approx. 5×10^7 cycles
Standards/regulations	IEC 60664
	EN 50178

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Technical data

General

	IEC 62103
Rated surge voltage / insulation	Basic insulation
Pollution degree	2
Surge voltage category	III
Mounting position	any

Connection data

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

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Classifications

UNSPSC

UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

Approvals

Approvals

Approvals

GOST

Ex Approvals

Approvals submitted

Approval details

GOST



Accessories

Accessories

Marking material - EMG-GKS 12 - 2947035



Equipment marker, width 12 mm

Drawings

