Hybrid relay - EMG 22-REL/KSR-G 24/TRN12 - 2952363

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

Relay module, with miniature switching relay, with integrated NPN transistor control, for low control currents, contact (AgNi): Medium to large loads, 1 PDT, 12 V DC nominal control voltage

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
- Integrated input circuit and interference suppression circuit
- Type-dependent positive or negative control current

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 084462
Weight per Piece (excluding packing)	68.9 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

Dimensions

Width	22.5 mm
Height	75 mm

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Technical data

Dimensions

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	12 V DC
Minimum control voltage	5 V DC
Maximum control voltage	13.2 V DC
Minimum control current	0.5 mA
Maximum control current	1 mA
Typical input current at U_N	21 mA
Typical response time	9 ms
Typical release time	10 ms
Protective circuit	Protection against polarity reversal 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
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 x 10^7 cycles

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Technical data

General

Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage/insulation	Basic insulation
Pollution degree	2
Overvoltage category	III
Mounting position	any

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 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
AWG conductor cross section	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 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
AWG conductor cross section	24 ... 12

Standards and Regulations

Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage/insulation	Basic insulation
Pollution degree	2
Overvoltage category	III

Classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102

Hybrid relay - EMG 22-REL/KSR-G 24/TRN12 - 2952363

Classifications

eCl@ss

eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC000196
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC001437

UNSPSC

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

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approvals submitted

Approval details

EAC

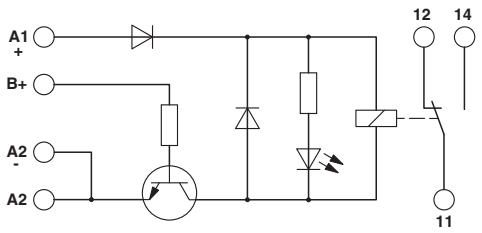
Hybrid relay - EMG 22-REL/KSR-G 24/TRN12 - 2952363

Approvals

EAC

Drawings

Circuit diagram



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