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

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

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

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	10 STK
GTIN	4 017918 083878
GTIN	4017918083878

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
Depth	62.5 mm

Ambient conditions

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

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Technical data

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.)
Operating mode	100% operating factor
Mechanical service life	approx. 5x 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 mm² ... 4 mm²

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Connection data input side

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

Standards and Regulations

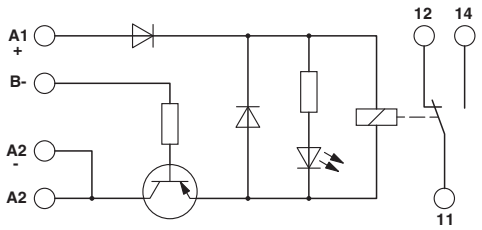
Standards/regulations	IEC 60664
	EN 50178
Insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

Circuit diagram



Approvals

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EAC

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Approvals

Ex Approvals

Approval details

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

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