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Relay module, with soldered-in miniature switching relay, contact (AgNi): Medium to large loads, 1 PDT, input voltage 230 V AC/DC

The illustration shows version EMG 22-REL/KSR- 24/21 AU, with soldered-in miniature switching relay

Product Features

☑ Safe isolation according to DIN EN 50178 between coil and contact

☑ Integrated input circuit and interference suppression circuit





Key commercial data

Packing unit	1 pc
GTIN	4 017918 084493
Weight per Piece (excluding packing)	70.4 GRM
Custom tariff number	85364900
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
Depth	62.5 mm



Technical data

Ambient conditions

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

Coil side

Nominal input voltage U _N	230 V AC/DC
Input voltage range in reference to U _N	0.9 1.06
Typical input current at U _N	5 mA
Typical response time	8 ms
Typical release time	10 ms
Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier Bridge rectifier
	Varistor Varistor

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	6 A
Interrupting rating (ohmic load) max.	144 W (at 24 V DC)
	58 W (at 48 V DC)
	48 W (at 60 V DC)
	50 W (at 110 V DC)
	80 W (at 220 V DC)
	1500 VA (for 250 V AC)

General

Test voltage relay winding/relay contact	5 kV _{rms} (50 Hz, 1 min.)
Test voltage relay contact/relay contact	1 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	IP20
Mechanical service life	Approx. 5 x 10 ⁷ cycles
Standards/regulations	EN 50178
Rated surge voltage / insulation	4 kV / Basic isolation, (safe isolation, reinforced insulation and 6 kV between input circuit and output contact current paths.)
Rated insulation voltage	260 V AC
Pollution degree	2
Surge voltage category	III
Mounting position	any



Technical data

General

Assembly instructions	In rows with zero spacing
Connection data	
Connection method	Screw connection
Stripping length	8 mm

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

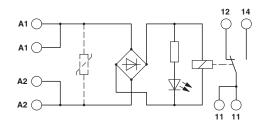
UNSPSC

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

Drawings



Circuit diagram



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