Relay Module - EMG 17-REL/SG-B 48/21/M - 2953935

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The illustration shows version EMG 17-REL, with soldered-in Latching miniature switching relay

Relay module, with soldered-in remanence miniature switching relay, with negative switching diode wiring, contacts (AgSnO): small to large loads, 1 PDT, 48 V DC input voltage

Key commercial data

Packing unit	1 pc
GTIN	4 017918 084677
Weight per Piece (excluding packing)	51.83 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

Dimensions

Width	17.5 mm
Height	75 mm
Depth	62.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C

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Technical data

Coil side

Nominal input voltage U_N	48 V DC
Input voltage range in reference to U_N	0.8 ... 1.1
Typical input current at U_N	typ. 8.5 mA
Typical response time	5 ms
Typical release time	5 ms
Pulse time	30 ms ... 5 s
Protective circuit	Free-wheeling diode Damping diode
	Protection against polarity reversal Polarity protection diode

Contact side

Contact type	Single contact, 1-PDT
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
	24 V (At 1 mA)
Maximum inrush current	8 A
Min. switching current	1 mA (at 24 V)
	100 mA (At 5 V)
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	144 W (at 24 V DC)
	43 W (at 48 V DC)
	42 W (at 60 V DC)
	55 W (at 110 V DC)
	100 W (at 220 V DC)
	1500 VA (for 250 V AC)
Maximum switching voltage	250 V AC/DC
Limiting continuous current	5 A
Maximum inrush current	6 A
Interrupting rating (ohmic load) max.	120 W (at 24 V DC)
	40 W (at 48 V DC)
	35 MW (at 60 V DC)
	30 W (at 110 V DC)
	55 W (at 220 V DC)
	1250 VA (for 250 V AC)

General

Test voltage relay winding/relay contact	4 kV_{rms} (50 Hz, 1 min.)
Operating mode	100% operating factor

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Technical data

General

Mechanical service life	Approx. 10^7 cycles
Pollution degree	2
Surge voltage category	III
Standards/regulations	EN 50178
	IEC 62103
Pollution degree	2
Surge voltage category	III
Designation	Air and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Mounting position	any
Assembly instructions	In rows with zero spacing

Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
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 8.0	27371001

ETIM

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

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Classifications

UNSPSC

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

Drawings

Circuit diagram