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The figure shows version EMG 17-REL, with soldered-in Latching Relay module, with soldered-in remanence miniature switching relay, with positive switching diode wiring, contacts (AgSnO): small to large loads, 1 PDT, 48 V DC input voltage



miniature switching relay

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 118037
GTIN	4017918118037
Weight per Piece (excluding packing)	50.000 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	17.5 mm
Height	75 mm
Depth	62.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C 50 °C



Technical data

Ambient conditions

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

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
Coil voltage	24 V DC
Protective circuit	Free-wheeling diode Damping diode
	Reverse polarity protection Polarity protection diode
Pulse time range	30 ms 5 s
Power dissipation for nominal condition	0.41 W

Contact side

Contact type	Single contact, 1-PDT
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
	24 V (At 1 mA)
Min. switching current	1 mA (at 24 V)
	100 mA (At 5 V)
Maximum inrush current	8 A
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)

Contact side (with destroyed gold layer)

Maximum switching voltage	250 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	8 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	40 W (at 48 V DC)
	35 W (at 60 V DC)



Technical data

Contact side (with destroyed gold layer)

30 W (at 110 V DC)
55 W (at 220 V DC)
1500 VA (for 250 V AC)

General

Test voltage relay winding/relay contact	4 kV _{rms} (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	approx. 10 ⁷ cycles
Mounting position	any
Assembly instructions	In rows with zero spacing

Connection data

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
Conductor cross section AWG	24 12

Connection data 2

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

Designation	Air clearances and creepage distances between the power circuits	
Standards/regulations	DIN EN 50178	
Rated insulation voltage	250 V AC	
Rated surge voltage	4 kV	
Insulation	Safe isolation, reinforced insulation	
Pollution degree	2	
Overvoltage category	III	
Pollution degree	2	
Overvoltage category	III	



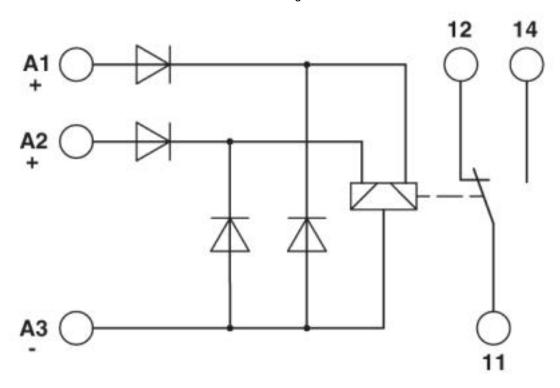
Technical data

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



Classifications

eCl@ss

eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27371600
eCl@ss 5.1	27371600
eCl@ss 6.0	27371600
eCl@ss 7.0	27371601
eCl@ss 8.0	27371601



Classifications

eCl@ss

EAC	EAC		TR_TS_S_00010_c
EAC	EAC		TR_TS_D_00573_c
Approval details			
Ex Approvals			
EAC / EAC			
Approvals			
Approvals			
Approvals		·	
UNSPSC 13.2		39122334	
UNSPSC 12.01		39121515	
UNSPSC 11		39121515	
UNSPSC 7.0901		39121515	
UNSPSC 6.01		30211916	
UNSPSC		•	
ETIM 7.0		EC001437	
ETIM 6.0		EC001437	
ETIM 5.0		EC001437	
ETIM 4.0		EC001437	
ETIM 3.0		EC001437	
ETIM 2.0		EC001437	
ETIM			
eCl@ss 9.0		27371601	
eCl@ss			



Accessories

Accessories

Marking material - EMG-GKS 12 - 2947035



Device marking label, width: 12 mm, area: 12 x 8 mm, e.g. for EML(10x7) R adhesive marking material

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