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- Small dimensions
- Switching current up to 10 A / 15 A
- The plastics applied provide for the operation of the relays at high temperature and in chemical environment
- Sealed, for soldering
- Applications: for household equipment, office machines, audio equipment, coffee machines, control devices, etc.
- Recognitions, certifications, directives: RoHS, 

Contact data

Number and type of contacts	1 C/O, 1 NO
Contact material	AgSnO₂
Rated / max. switching voltage	AC 240 V / 277 V
Min. switching voltage	5 V
Rated load	AC1 10 A / 240 V AC DC1 15 A / 24 V DC
Min. switching current	15 mA
Rated current	12 A
Max. breaking capacity	AC1 3 000 VA
Min. breaking capacity	0,75 W
Contact resistance	≤ 100 mΩ

Coil data

Rated voltage	DC 3 ... 48 V
Must release voltage	DC: ≥ 0,05 U _n
Operating range of supply voltage	see Table 1
Rated power consumption	DC 0,36...0,45 W

Insulation according to PN-EN 60664-1

Dielectric strength	
• between coil and contacts	1 000 V AC type of insulation: basic
• contact clearance	500 V AC type of clearance: micro-disconnection
Contact - coil distance	
• clearance	≥ 1,9 mm
• creepage	≥ 1,9 mm

General data

Operating / release time (typical values)	10 ms / 5 ms
Electrical life	
• resistive AC1 1 200 cycles/hour	> 10 ⁵ 7 A, 250 V AC
• resistive AC1 1 200 cycles/hour	> 3 x 10 ⁴ 12 A, 250 V AC
• resistive DC1 1 200 cycles/hour	> 5 x 10 ⁴ 15 A, 24 V DC
Mechanical life 18 000 cycles/hour	> 10 ⁷
Dimensions (L x W x H)	19 x 15,4 x 15,5 mm
Weight	11 g
Ambient temperature • operating	-30...+55 °C
Cover protection category	IP 64 PN-EN 60529
Shock resistance	10 g
Vibration resistance	1,5 mm DA (constant amplitude) 10...55 Hz
Solder bath temperature	max. 235 °C
Soldering time	max. 3,5 s

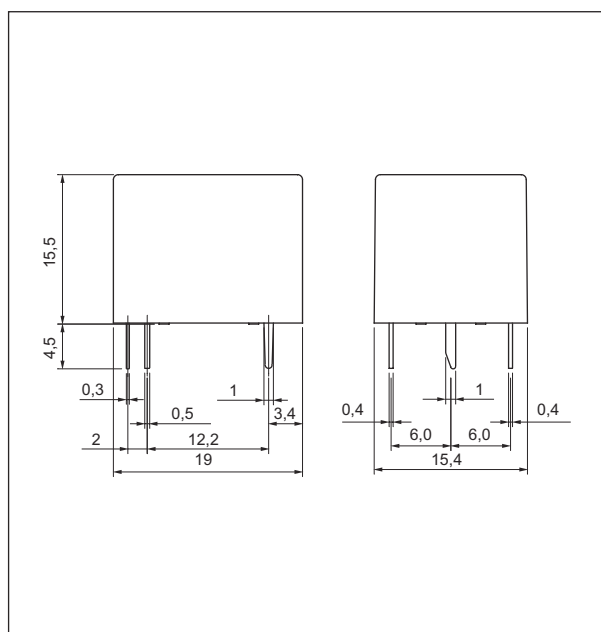
The data in bold type pertain to the standard versions of the relays.

Coil data - DC voltage version

Table 1

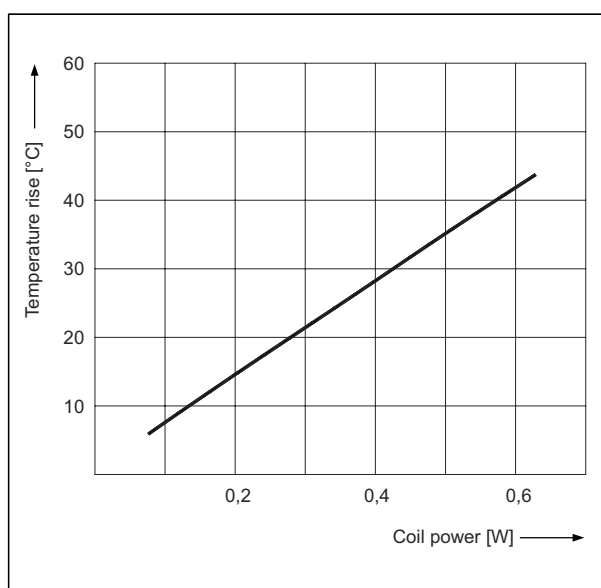
Coil code	Rated voltage V DC	Coil resistance $\pm 10\%$ at 20°C Ω	Coil operating range at 20°C V DC		Power consumption mW
			min.	max.	
1003	3	25	2,25	3,9	360
1005	5	70	3,75	6,5	360
1006	6	100	4,50	7,8	360
1009	9	225	6,75	11,7	360
1012	12	400	9,00	15,6	360
1018	18	900	13,50	23,4	360
1024	24	1 600	18,00	31,2	360
1048	48	6 400	38,40	62,4	450

Dimensions

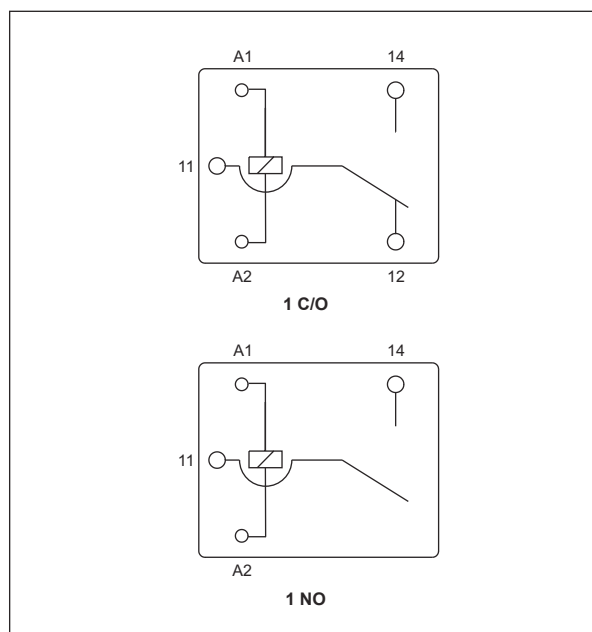


Coil temperature rise

Fig. 1

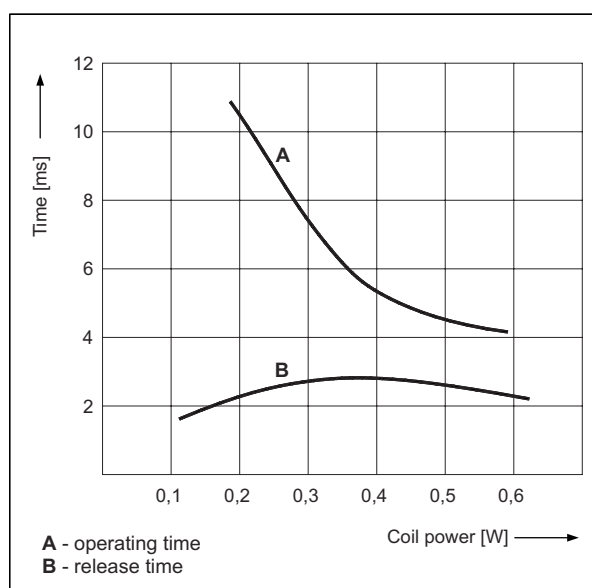


Connection diagrams (pin side view)



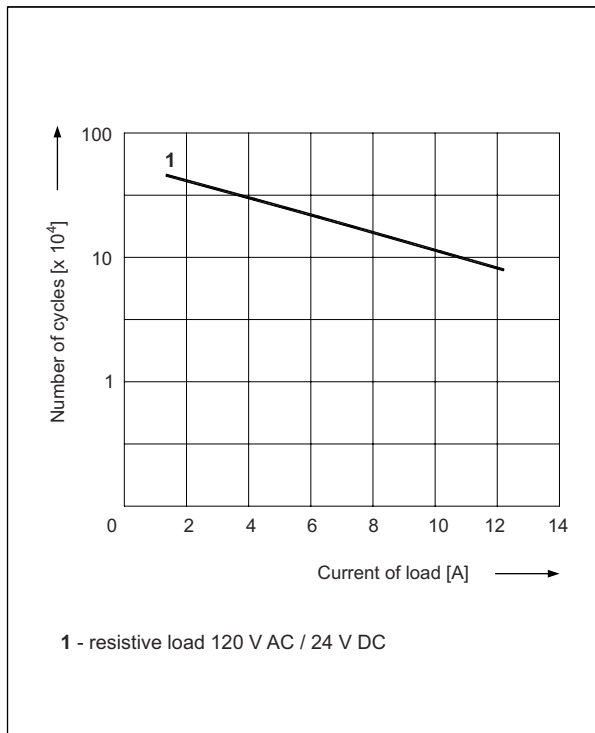
Operating / release time

Fig. 2

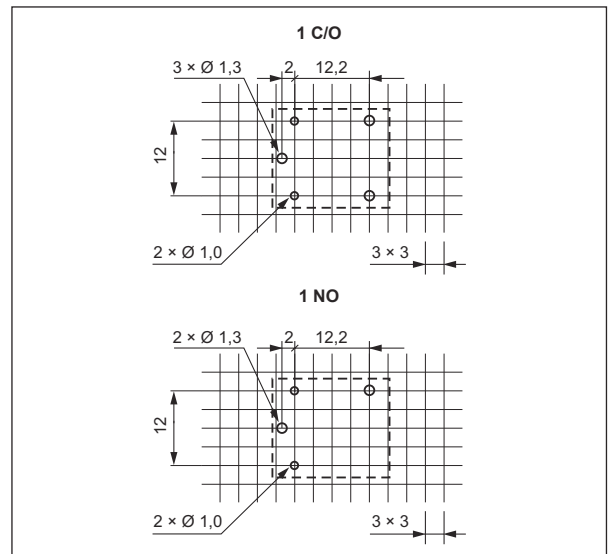


Electrical life

Fig. 3



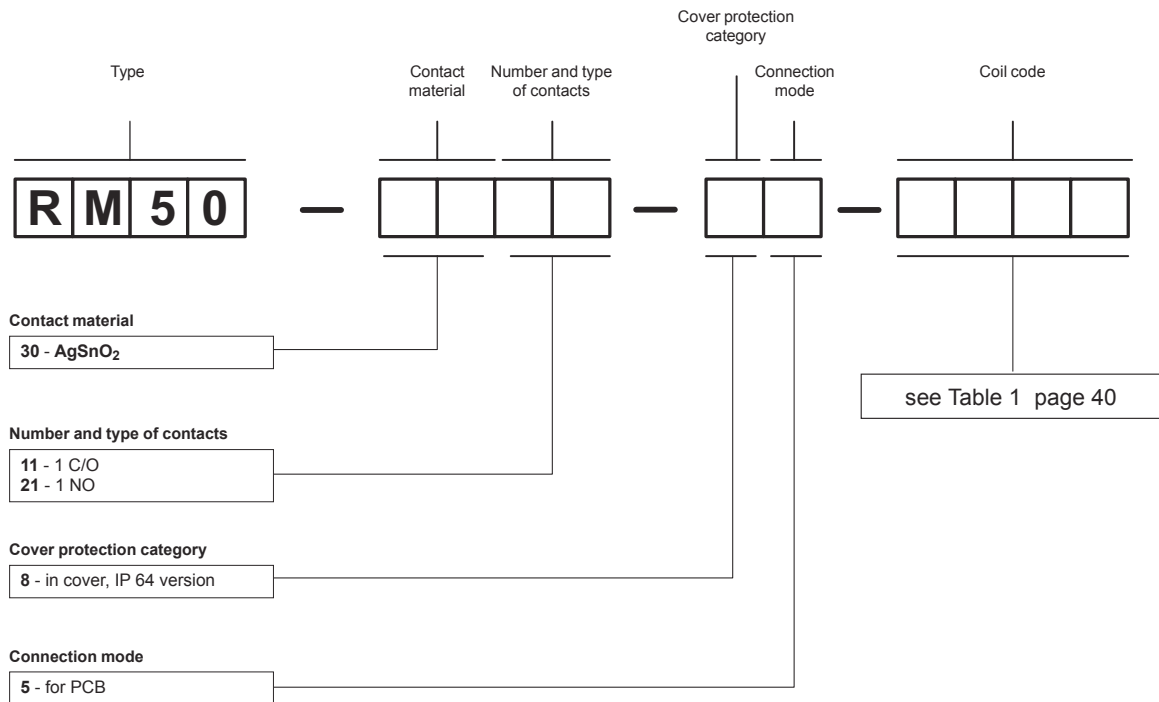
Pinout (solder side view)



Mounting

Relays **RM50** are designed for direct PCB mounting.

Ordering codes



Example of ordering code:

RM50-3011-85-1012

relay **RM50**, contact material AgSnO₂, with one changeover contact, in cover IP 64, for PCB, voltage version 12 V DC