


- Subminiature monostable relays for switching low loads • **DC coils** - **standard and sensitive of up to 48 V DC**, low coil power 0,20 W (sensitive version) or 0,36 W (standard version) • Mounting on printed circuit boards • Operation possible at high temperature and in chemical environment • Sealed, for wave soldering and cleaning • Applications: for telephone equipment, household equipment, office equipment, AV devices, control devices - remote control devices
- Recognitions, certifications, directives: RoHS, 

Contact data

Number and type of contacts		2 C/O
Contact material		AgPd/Au 0,2 μm
Rated / max. switching voltage	AC	120 V / 120 V
Min. switching voltage		1 V
Rated load	AC1	1 A / 120 V AC
	DC1	2 A / 24 V DC
Min. switching current		1 mA
Rated current		2 A
Max. breaking capacity	AC1	120 VA
Min. breaking capacity		1 mW
Contact resistance		≤ 100 mΩ

Coil data

Rated voltage	DC	3...24 V sensitive version	48 V standard version
Must release voltage		DC: ≥ 0,1 U _n	
Operating range of supply voltage		see Table 1	
Rated power consumption	DC	0,20 W sensitive version	0,36 W standard version

Insulation according to PN-EN 60664-1

Dielectric strength		1 000 V AC	type of insulation: basic
• between coil and contacts		500 V AC	type of clearance: micro-disconnection
• contact clearance			
Contact - coil distance		≥ 1,3 mm	
• clearance		≥ 1,5 mm	
• creepage			

General data

Operating / release time (typical values)		8 ms / 4 ms sensitive version	6 ms / 4 ms standard version
Electrical life			
• resistive AC1	1 800 cycles/hour	10 ⁵	1 A, 120 V AC
Mechanical life	18 000 cycles/hour	> 10 ⁷	
Dimensions (L x W x H)		21 x 10,1 x 12,1 mm	
Weight		4,8 g	
Ambient temperature	• operating	-30...+80 °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	

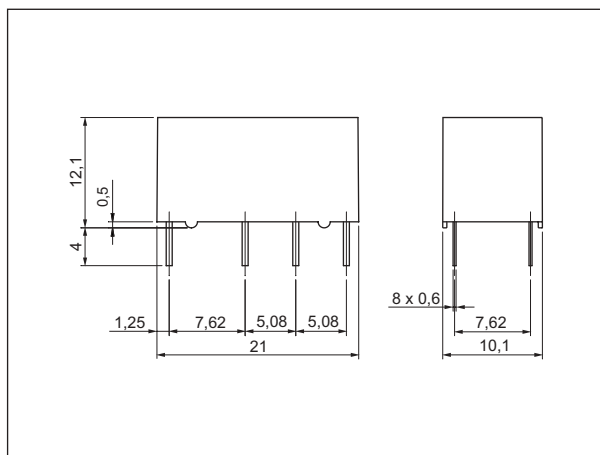
The data in bold type pertain to the standard versions of the relays.

Coil data - DC voltage version

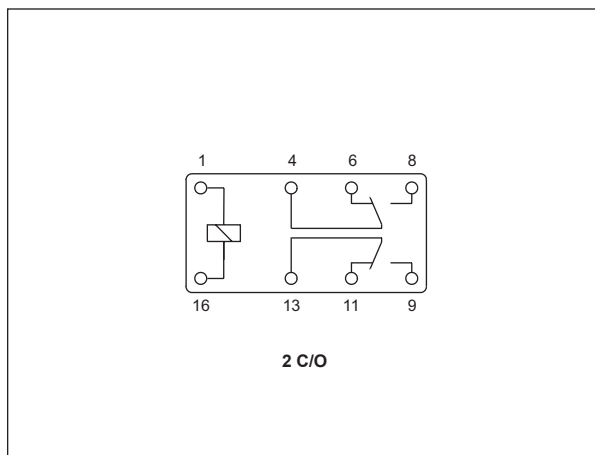
Table 1

Coil code		Rated voltage V DC	Coil resistance ± 10% at 20°C Ω	Coil operating range at 20°C V DC		Power consumption mW
standard version	sensitive version			min.	max.	
-	S003	3	45	2,25	4,5	200
-	S005	5	125	3,75	7,5	200
-	S006	6	180	4,50	9,0	200
-	S009	9	405	6,75	13,5	200
-	S012	12	720	9,00	18,0	200
-	S024	24	2 880	18,00	36,0	200
1048	-	48	6 400	36,00	72,0	360

Dimensions

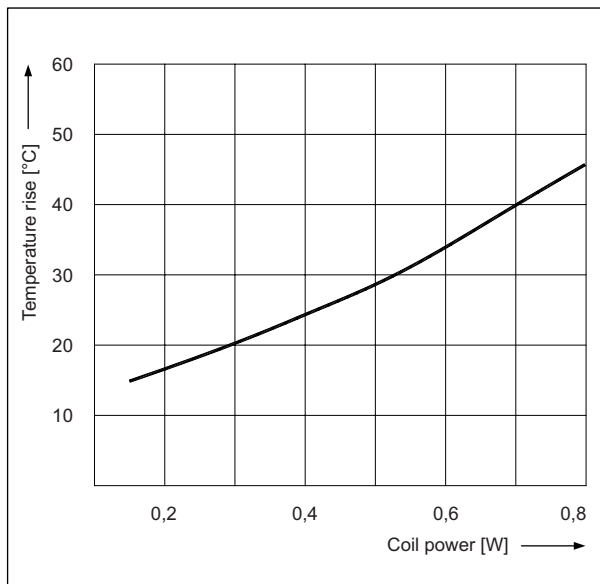


Connection diagram (pin side view)



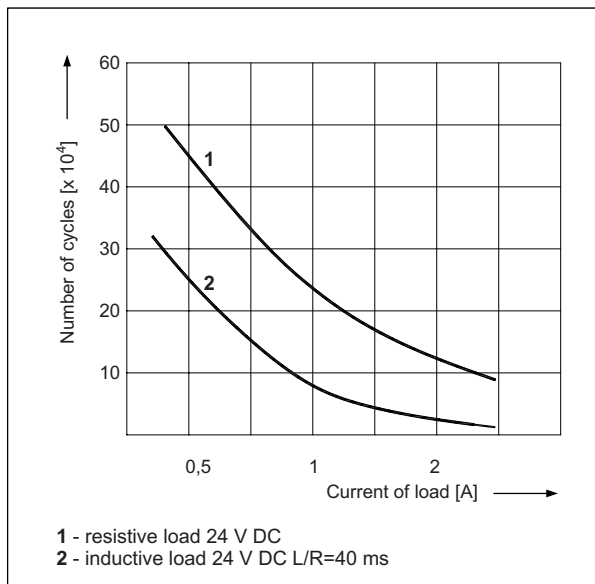
Coil temperature rise

Fig. 1

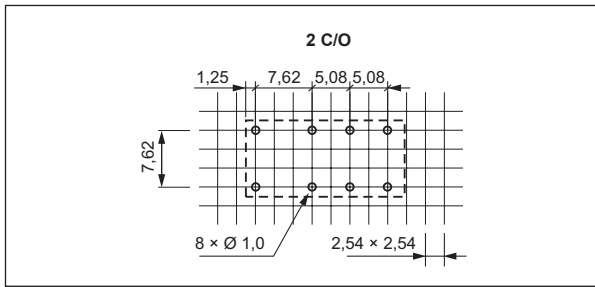


Electrical life

Fig. 2



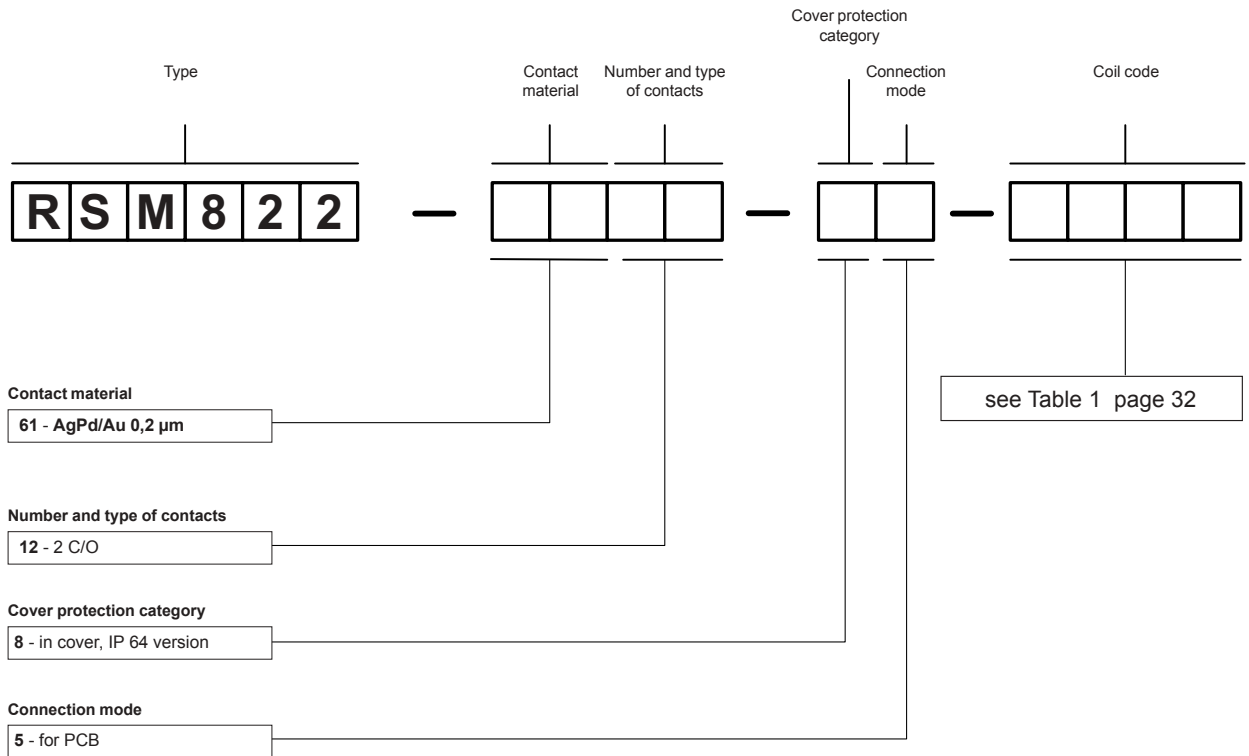
Pinout (solder side view)



Mounting

Relays **RSM822** are designed for direct PCB mounting.

Ordering codes



Example of ordering code:

RSM822-6112-85-S005

relay **RSM822**, contact material AgPd/Au 0,2 µm, with two changeover contacts, in cover IP 64, for PCB, sensitive voltage version 5 V DC