- Small size, light weight.
- Low coil power consumption.
- PC board mounting.
- Applications: for telecommunication devices, office equipment, alarm systems, measuring instruments, medical monitoring devices, AV devices, control sensors.
- Recognitions, certifications, directives: RoHS

Contact data

Number and type of contacts		2 CO
Contact material		AgNi/Au gold plating
Max. switching voltage		30V DC, 220 V AC
Rated switching voltage	AC	125 V AC
Min. switching voltage		6 V DC
Rated load (capacity):	AC1 DC1	1A/125V AC 2A/30V DC
Min. switching current		50mA (Au plated)
Max. make current		2A
Rated current		1A
Max. breaking capacity	AC1	125 V A 60W
Min. breaking capacity		0.6 VA
Contact resistance		50 mΩ
Max. operating frequency:	• at rated load AC1 • no load	720 72000

Coil data

Rated voltage	• DC	5V, 9V, 12V, 24V
Must release voltage		0,1 Un
Operating range of supply voltage		0.7 Un
Rated power consumption (sensitive coil)		0,20 W
Rated power consumption (standard coil)		0,36 W

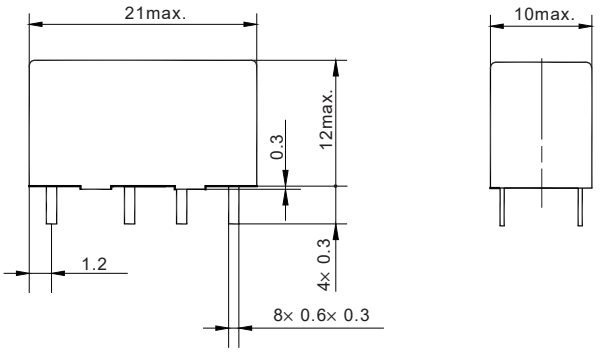
Insulation according to EN 60664-1

Insulation resistance		500 MΩ at 500 V DC
Insulation rated voltage		250 V
Rated surge voltage		1500 V
Overvoltage category		II
Insulation pollution degree		2
Flammability class		V-0
Dielectric strength:	• between coil and contacts • contact clearance	1000 V AC 1 min 500 V AC 1 min
Contact - coil distance:	• clearance • creepage	0,25 2

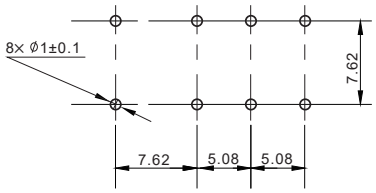
General data

Operating / release time (typical values)		6 ms / 5 ms
Electrical life		1×10^5 Item 4.30 of IEC 61810-7
Mechanical life (cycles)		1×10^7 Item 4.31 of IEC 61810-7
Dimensions (L × W × H) / Weight		21 × 10 × 12 mm / 5,5 g
Ambient temperature (non-condensation and/or icing)		
	• storage	−30 °C...+70 °C
	• operating	−30 °C...+70 °C
Cover protection category		IP67 EN 60529
Environmental protection		RTIII EN 61810-1
Shock resistance	• functional	490 m/s2 11 ms
Vibration resistance (NO/NC)		1,5 mm DA (constant amplitude) 10..75 Hz
Relative humidity		5% to 85%
Solder bath temperature		max. 260 °C
Soldering time		max. 5s

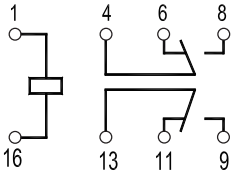
Dimensions



Dimensions



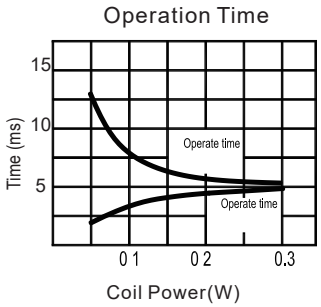
Pinout (soldier side view)

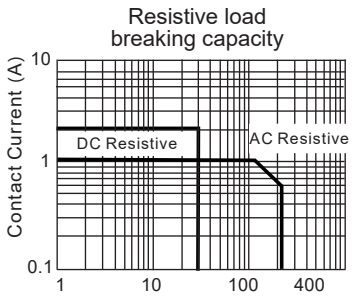


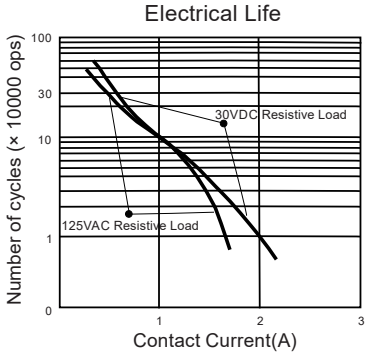
Connection diagram
(pin side view)

CAUTION: In case of no tolerance shown in outline dimension: outline dimension ⩽1mm,tolerance should be±0.2mm ; outline dimension >1mm and ⩽5mm, tolerance should be±0.3mm; outline dimension >5mm, tolerance should be±0.4mm.

Electrical data





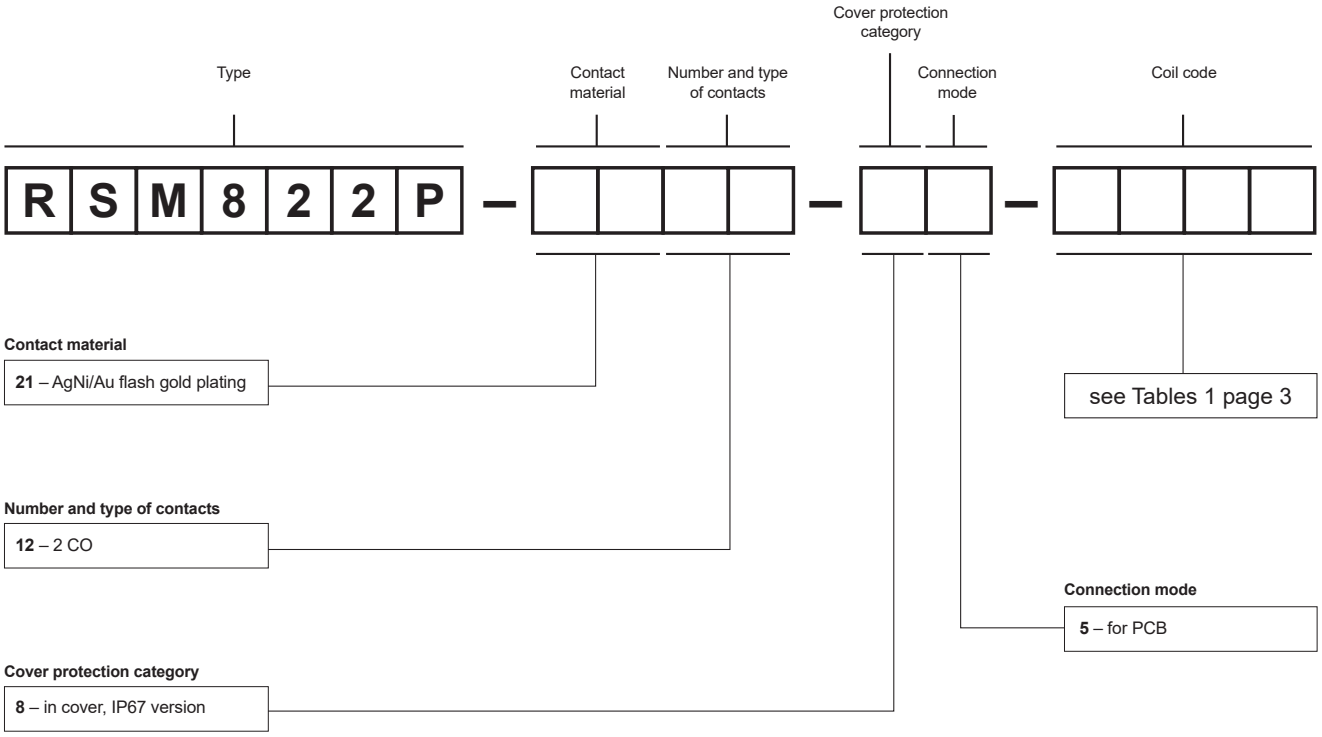


Coil data – DC voltage version

Table 1

Coil code	Rated voltage V DC	Coil resistance at 20 °C Ω	Acceptable resistance	Coil operating range V DC	
				min. (at 20 °C)	max (20 °C)
S005	5	125	± 10%	3,5	6,5
S009	9	405	± 10%	6,75	11,7
S012	12	720	± 10%	8,4	15,6
S024	24	2880	± 10%	18	31,2

Ordering codes



Examples of ordering code:

RSM822P-2112-85-S005 relay **RSM822P**, for PCB, two changeover contacts, contact material AgNi/Au flash gold plating, sensitive coil voltage 5 V DC, in cover IP 67

RSM822P-2112-85-S024 relay **RSM822P**, for PCB, two changeover contacts, contact material AgNi/Au flash gold plating, sensitive coil voltage 24 V DC, in cover IP 67

PRECAUTIONS:

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. **2.** Never touch any live parts of the device. **3.** Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. **4.** In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.