- Low power consumption by the coil.
- Micro-miniature relay, standard PCB terminals.
- zmiana tekstu – EX version – GLOW WIRE design suitable for use in systems using refrigerants such as R134
- Standard and sensitive coil
- Applications: Household appliances: air conditioners, heaters, etc.; vending machines; Office equipment: computers, fax machines, etc.; Electrically operated windows, car antennas, door locks, etc.
- Recognitions, certifications, directives: RoHS, c UL us

Contact data

Number and type of contacts		1 NO
Contact material		$AgSnO_2$
Rated / max. switching voltage	AC	277 V AC/ 277 V AC
Min. switching voltage		6 V DC
Rated load (capacity)	AC1	16 A / 277 V AC
Motor load		1/3 Hp, 277 V AC, 1 × 10^5 cycles, 105 °C
Min. switching current		6 V DC / 1 A
Max. make current		16 A
Rated current		16 A
Max. breaking capacity	AC1	4432 VA
Min. breaking capacity		6 VA
Contact resistance		≤ 100 mΩ (1A 24 V DC)
Max. operating frequency:		
• at rated load AC1		360 cycles/hour
• no load		18 000 cycles/hour

Coil data

Rated voltage	DC	5, 6, 9, **12**, **24**
Operating range of supply voltage		see table 1, 2
Rated power consumption		0,45 W (standard coil)/ 0,2 W (sensitive coil) – see table 1,2

Insulation according to EN 60664-1

Insulation resistance	1000 MΩ Min (500 V DC)
Rated surge voltage	10 kV 1,2 / 50 µs
Overvoltage category	II
Insulation pollution degree	2
Flammability class	UL 94 V-0
Dielectric strength	
• between coil and contacts	4 000 V AC
• between open contacts	1 000 V AC (0.4 W), 750 V AC (0.2 W)
Contact - coil distance	
• clearance	≥ 8 mm
• creepage	≥ 8 mm

General data

Max. Operate/release time (typical values)		10 ms / 5 ms	
Electrical life	• resistive AC1 (number of cycles)	≥ 5 × 10^4 cycles	16 A, 277 V AC
Mechanical life (cycles)		≥ 10^7 Cycles	
Dimensions (L × W × H) / Weight		18.2 × 10.2 × 15.5 / 5.7g	
Ambient temperature (non-condensation and/or icing)			
• storage		−40… +85 °C	
• operating		−40… +105 °C	
Cover protection category		RT II / RT III	
Environmental protection		RTII / RTIII	
Shock resistance		10G	
Vibration resistance (NO)		10~55Hz, at double amplitude of 1.5 mm	
Solder bath temperature / Soldering time		max. 270 °C / max. 5 s	

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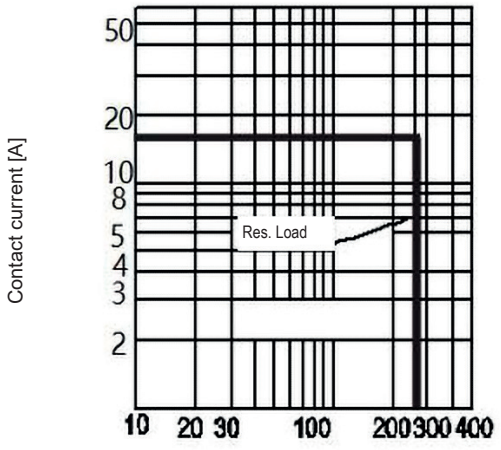
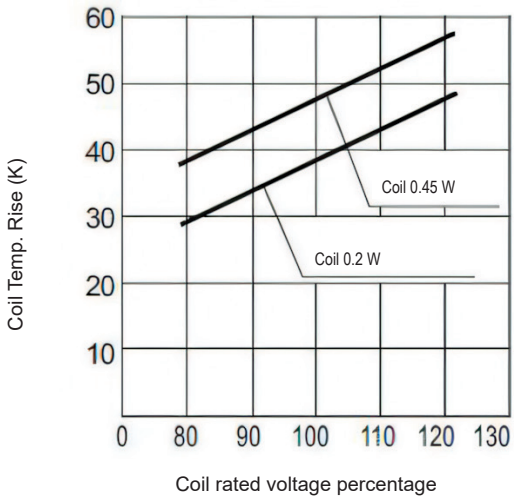
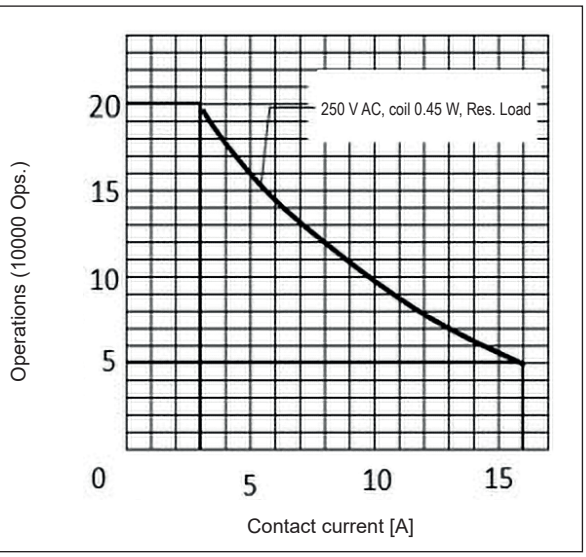
Max. Switching Power Fig. 1



Coil Temp. Rise Fig. 2



Endurance Curve Fig. 3

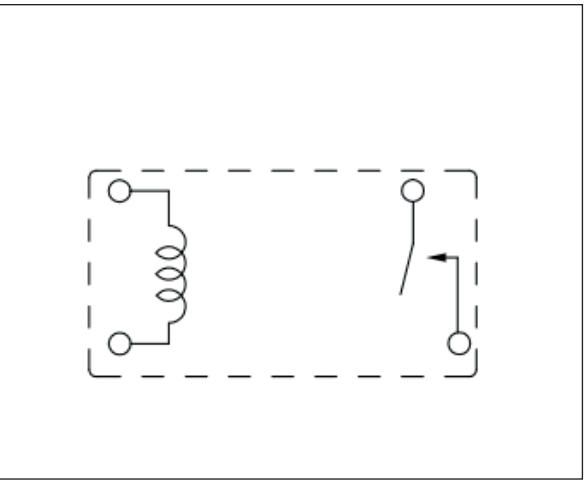


Note:

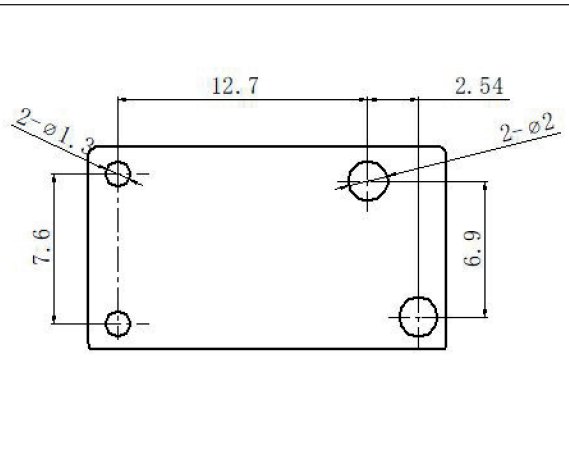
(1) Test conditions: room temperature, flux-proof product, resistive load, 1s on, 9s off.

(2) The above curves are for reference only, and the final result is subject to the experiment.

Connection diagrams (bottom)



PCB Layouts (bottom view)



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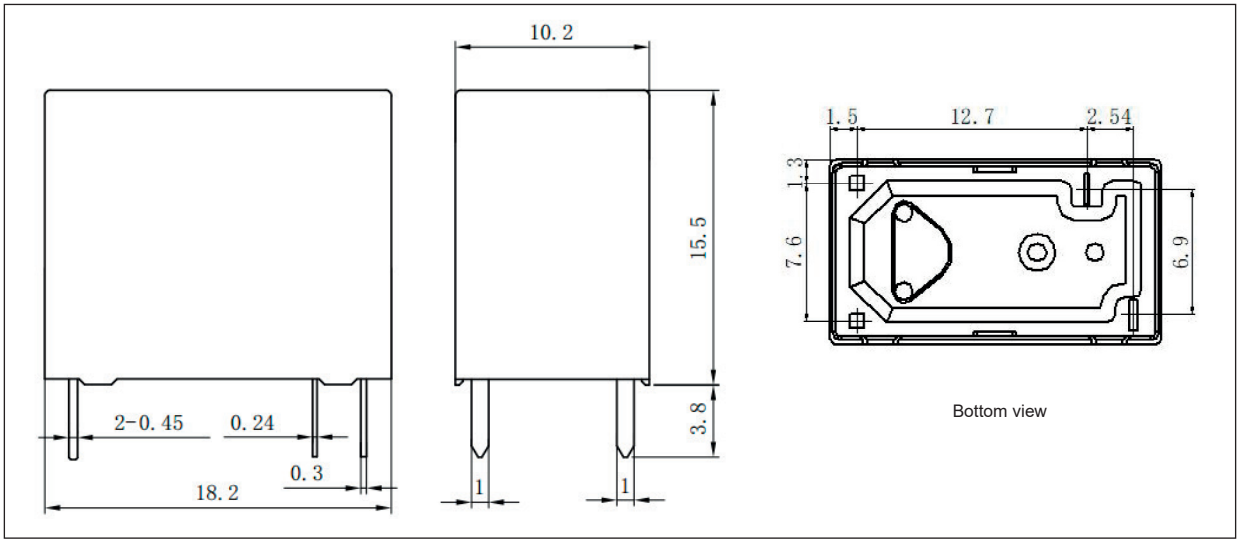
Dimension



Note:

1. The dimension of pin is the size before tinning

2. Tolerance of PCB layout: ±0.1 mm.

Coil data – DC voltage version, standard

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)
1005	5	62,5	± 10%	3,75	5,5
1006	6	90,0	± 10%	4,5	6,6
1009	9	202,5	± 10%	6,75	9,9
1012	**12**	**360,0**	**± 10%**	**9,0**	**13,2**
1024	**24**	**1440,0**	**± 10%**	**18,0**	**26,4**

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

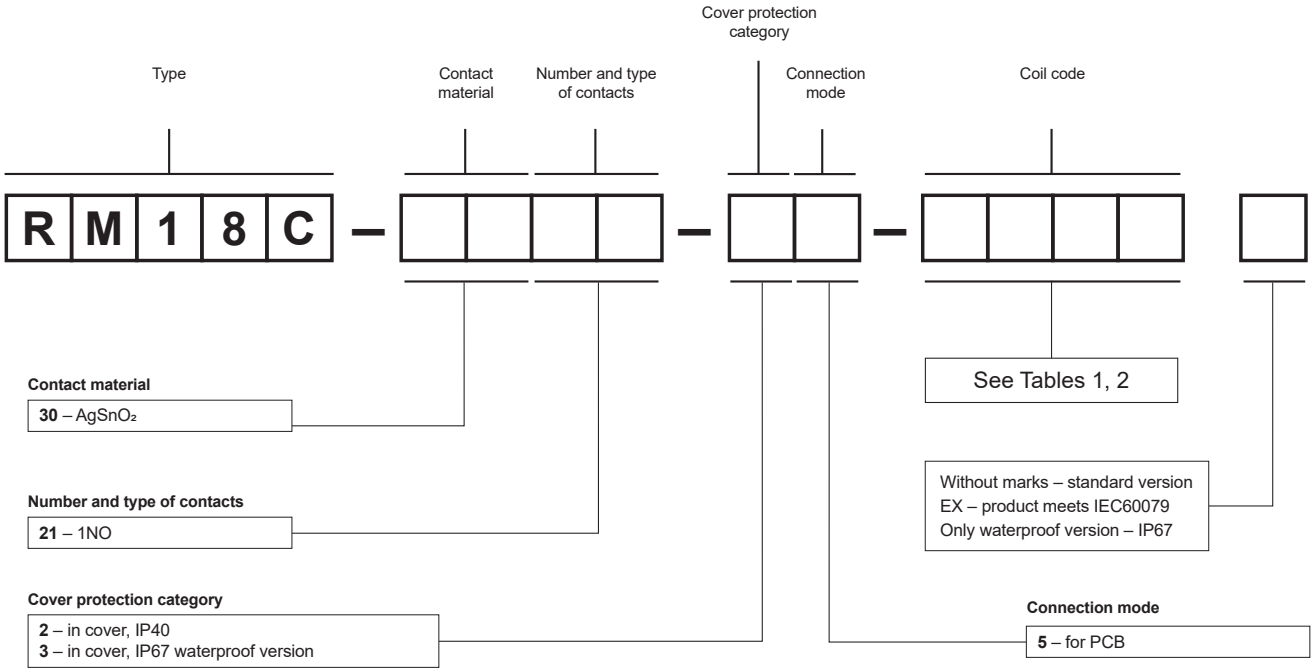
Coil data – DC voltage version, sensitive

Table 2

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%	3,75	5,5
S006	6	180	± 10%	4,5	6,6
S009	9	405	± 10%	6,75	9,9
S012	**12**	**720**	**± 10%**	**9,0**	**13,2**
S024	**24**	**2880**	**± 10%**	**18,0**	**26,4**

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

Ordering codes



Examples of ordering code:

RM18C-3021-25-1012 relay **RM18C**,contact material $AgSnO_2$, one normally open contact,in cover, IP40 version, for PCB, standard coil voltage 12 V DC

RM18C-3021-35-1024-EX relay **RM18C**, contact material $AgSnO_2$, one normally open contact, in cover, IP67 waterproof version, for PCB, standard coil voltage 24 V DC, EX version

RM18C-3021-35-S024 relay **RM18C**, contact material $AgSnO_2$, one normally open contact, in cover, IP67 waterproof version, for PCB, sensitive coil voltage 24 V DC,

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.