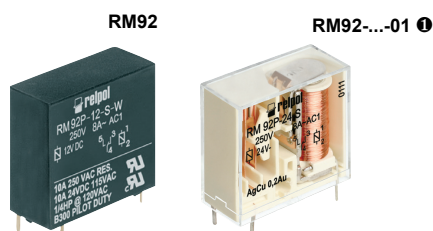


RM92

miniature relays



- Miniature dimensions
- General purpose relays
- Protection category IP 40 or IP 67
- For PCB and plug-in sockets
- DC coils - standard and sensitive
- Recognitions, certifications, directives: RoHS,

Contact data

Number and type of contacts		1 CO, 1 NO, 1 NC
Contact material		AgCu/Au 0,2 μm , AgCdO, AgCdO/Au 3 μm
Rated / max. switching voltage	AC	250 V / 440 V
Min. switching voltage		10 V AgCu/Au 0,2 μm, 10 V AgCdO, 5 V AgCdO/Au 3 μm
Rated load	AC1 DC1	8 A / 250 V AC 8 A / 24 V DC
Min. switching current		5 mA AgCu/Au 0,2 μm, 5 mA AgCdO, 2 mA AgCdO/Au 3 μm
Rated current		8 A
Max. breaking capacity	AC1	2 000 VA
Min. breaking capacity		0,5 W AgCu/Au 0,2 μm, 0,5 W AgCdO, 0,05 W AgCdO/Au 3 μm
Contact resistance		≤ 100 mΩ
Max. operating frequency		600 cycles/hour
• at rated load	AC1	600 cycles/hour
• no load		72 000 cycles/hour

Coil data

Rated voltage	DC	6 ... 80 V standard version	5 ... 60 V sensitive version
Must release voltage		DC: ≥ 0,1 U _n	
Operating range of supply voltage		see Tables 1, 2	
Rated power consumption	DC	0,8 W standard version	0,5 W sensitive version

Insulation according to PN-EN 60664-1

Insulation rated voltage		400 V AC
Dielectric strength		
• between coil and contacts		4 000 V AC type of insulation: reinforced
• contact clearance		1 000 V AC type of clearance: micro-disconnection
Contact - coil distance		
• clearance		≥ 8 mm
• creepage		≥ 8 mm

General data

Operating / release time (typical values)		6 ms / 2 ms
Electrical life (number of cycles)		
• resistive AC1		> 2 x 10 ⁵ 8 A, 250 V AC
• cosφ		see Fig. 1
Mechanical life (cycles)		> 3 x 10 ⁷
Motor load according to UL 508		0,25 HP 120 V AC, single-phase motor
Dimensions (L x W x H)		IP 40: 28 x 11,5 x 26 mm IP 67: 28 x 11,5 x 26,5 mm
Weight		17 g
Ambient temperature	• storage • operating	-40...+85 °C -40...+70 °C
Cover protection category		IP 40 or IP 67 PN-EN 60529
Shock resistance		20 g
Vibration resistance		10 g 10...150 Hz
Solder bath temperature		max. 270 °C
Soldering time		max. 5 s

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

❶ For special version - relays in transparent cover - see "Ordering codes".

RM92

miniature relays

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. (at 20 °C)
1006	6	58	$\pm 10\%$	4,0	9,4
1012	12	170	$\pm 10\%$	7,4	16,2
1024	24	740	$\pm 10\%$	15,4	33,6
1036	36	1 600	$\pm 10\%$	23,5	50,0
1048	48	3 200	$\pm 10\%$	31,0	70,0
1060	60	5 000	$\pm 10\%$	38,0	87,0
1080	80	10 000	$\pm 10\%$	55,0	125,0

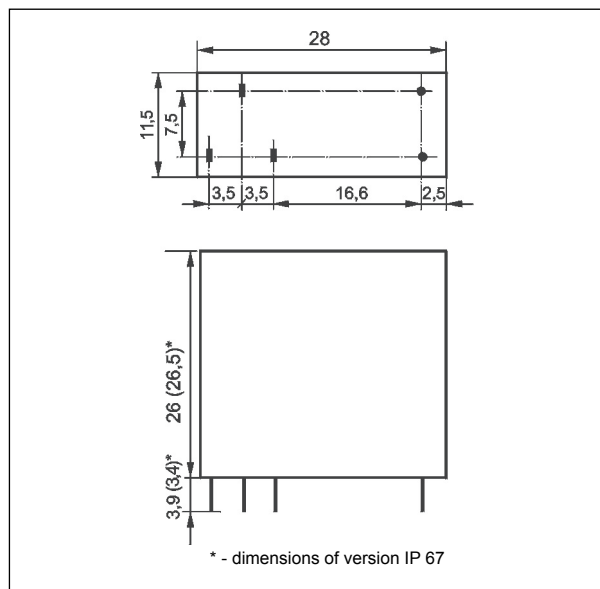
The data in bold type pertain to the standard versions of the relays.

Coil data - DC voltage version, sensitive

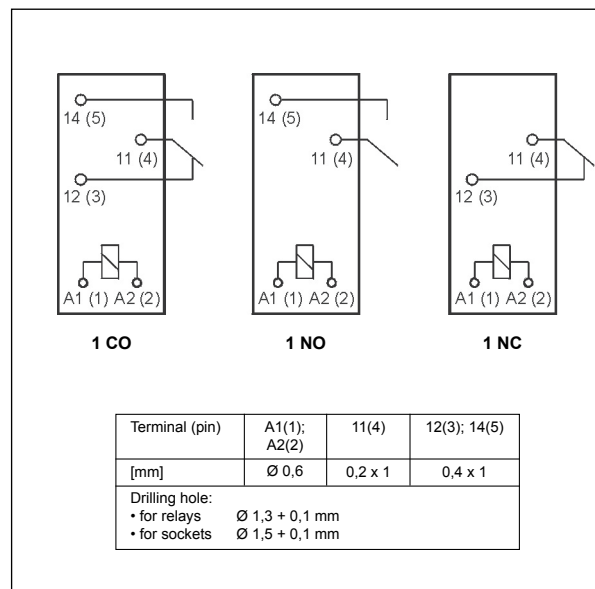
Table 2

Coil code	Rated voltage V DC	Coil resistance at 20 °C Ω	Acceptable resistance	Coil operating range V DC	
				min. (at 20 °C)	max. (at 20 °C)
S005	5	47	$\pm 10\%$	3,2	8,5
S006	6	80	$\pm 10\%$	4,2	11,0
S012	12	330	$\pm 10\%$	8,3	22,5
S024	24	1 200	$\pm 10\%$	16,8	43,0
S036	36	2 700	$\pm 10\%$	25,0	64,0
S048	48	4 700	$\pm 10\%$	32,8	85,0
S060	60	7 200	$\pm 10\%$	42,0	105,0

Dimensions



Connection diagrams (pin side view)

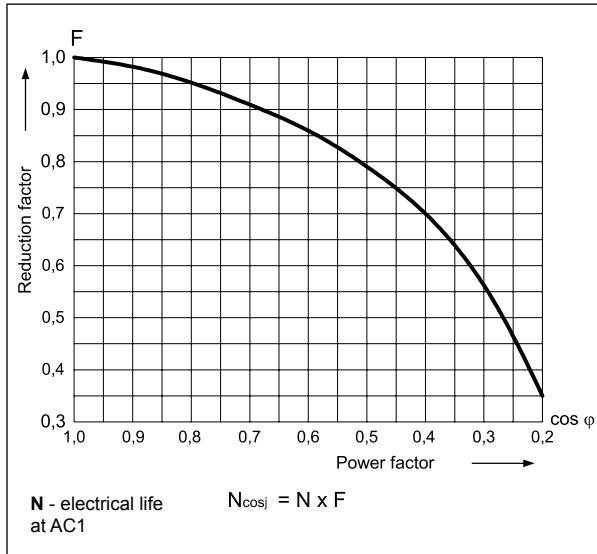


Mounting

Relays **RM92** are designed for: • direct PCB mounting • plug-in sockets for PCB mounting **EC 35** with clip **MP25-2**, MH25-2, GD-0025, RM81-0001; plug-in sockets **GD35** with clip **MP25-2**, GD-0025, MH25-2, RM81-0001.

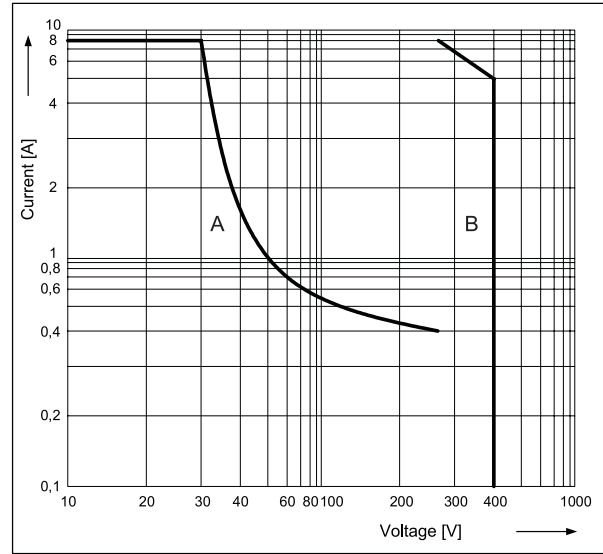
Electrical life reduction factor at AC inductive load

Fig. 1



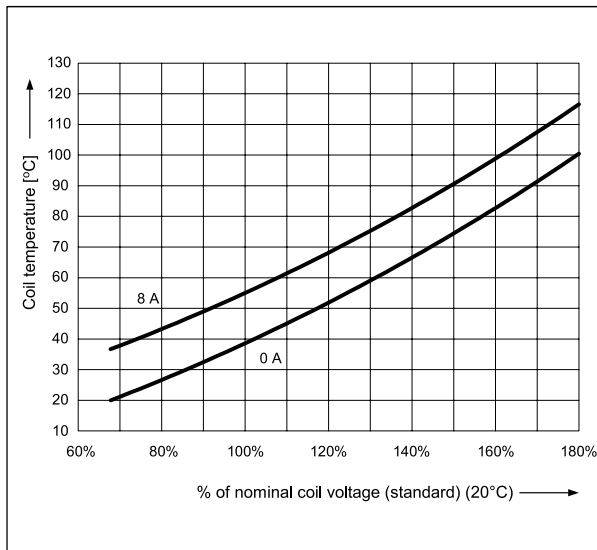
Max. breaking capacity
A - resistive load DC1
B - resistive load AC1

Fig. 2



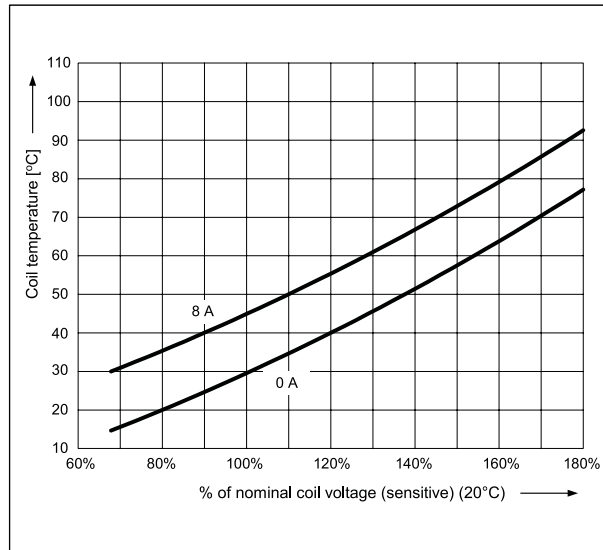
Coil temperature rise - standard version

Fig. 3

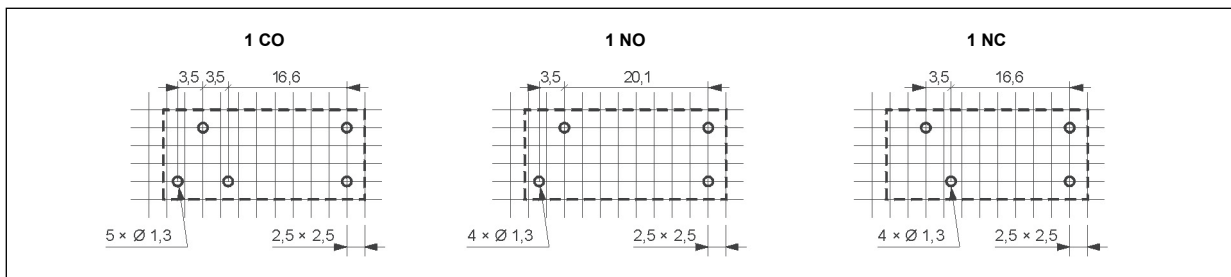


Coil temperature rise - sensitive version

Fig. 4



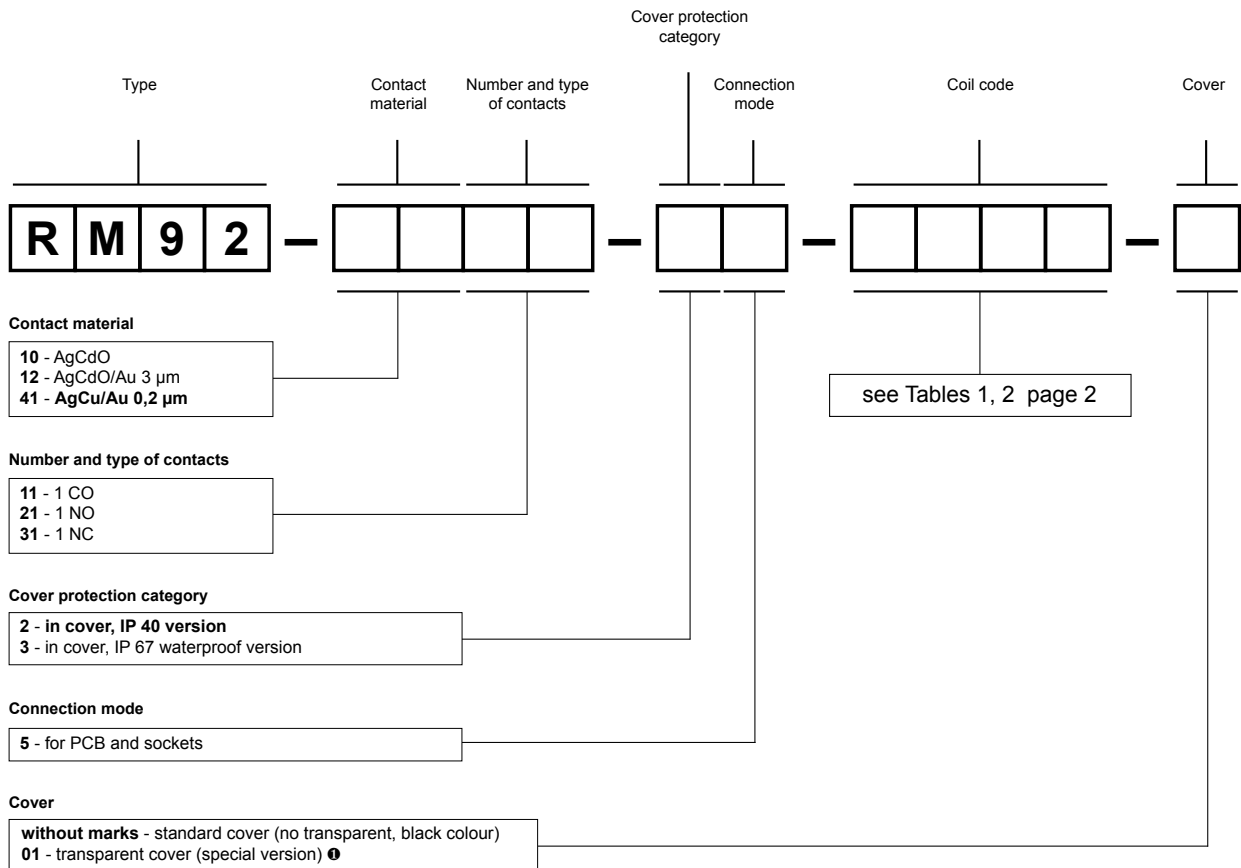
Pinout (solder side view)



RM92

miniature relays

Ordering codes

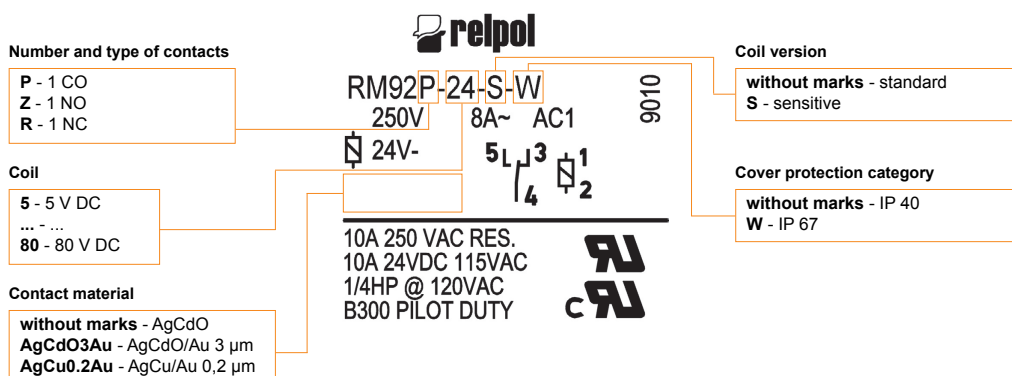


Examples of ordering codes:

- RM92-4111-25-1024** relay **RM92**, for PCB and sockets, one changeover contact, contact material AgCu/Au 0,2 µm, coil voltage 24 V DC, in standard cover (no transparent, black colour) IP 40
- RM92-4121-35-S024** relay **RM92**, for PCB and sockets, one normally open contact, contact material AgCu/Au 0,2 µm, sensitive coil voltage 24 V DC, in standard cover (no transparent, black colour) IP 67
- RM92-4131-35-1012-01** relay **RM92**, for PCB and sockets, one normally closed contact, contact material AgCu/Au 0,2 µm, coil voltage 12 V DC, in transparent cover (special version) IP 67

Print on relay cover

Type marking on relays cover **RM92** do not match the ordering codes (example of marking for **RM92-1011-35-S024**).

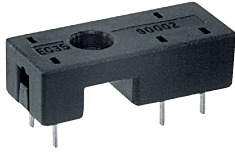


Plug-in sockets and accessories

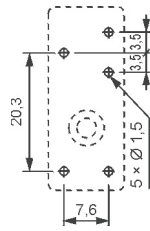
EC 35

For RM87N, RM87N sensitive, RM92

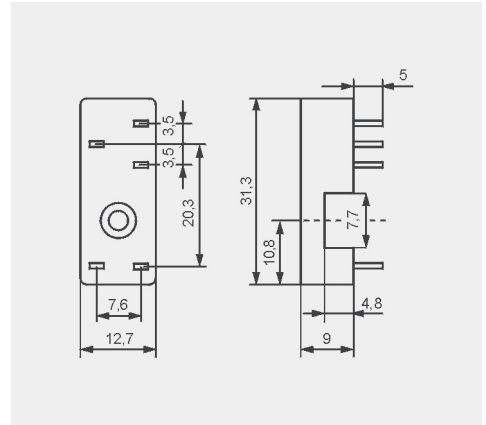
For PCB
31,3 x 12,7 x 9 mm
One pole, 3,5 mm pinout
12 A, 300 V AC



Pinout



Dimensions



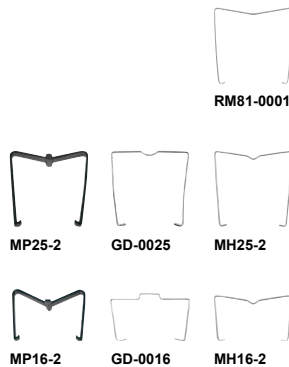
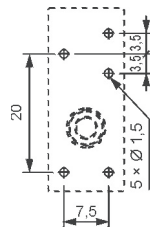
GD35

For RM87N, RM87N sensitive, RM92

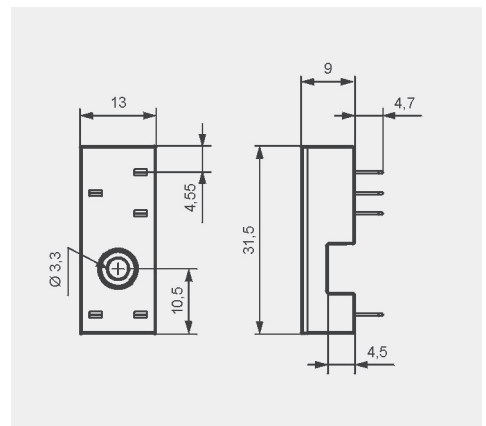
For PCB
31,5 x 13 x 9 mm
One pole, 3,5 mm pinout
12 A, 300 V AC



Pinout



Dimensions



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.

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[7-1393144-5](#) [7-1393767-8](#)