

- 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 C/O, 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		
• 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		
• resistive AC1		> 2 x 10 ⁵ 8 A, 250 V AC
• cos φ		see Fig. 2
Mechanical life (cycles)		> 3 x 10 ⁷
Motor load according to UL 508		1/4 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.

 Special version available: relays in transparent cover - see "Ordering codes".

Coil data - standard 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	
			min.	max.
1006	6	58	4,0	9,4
1012	12	170	7,4	16,2
1024	24	740	15,4	33,6
1036	36	1 600	23,5	50,0
1048	48	3 200	31,0	70,0
1060	60	5 000	38,0	87,0
1080	80	10 000	55,0	125,0

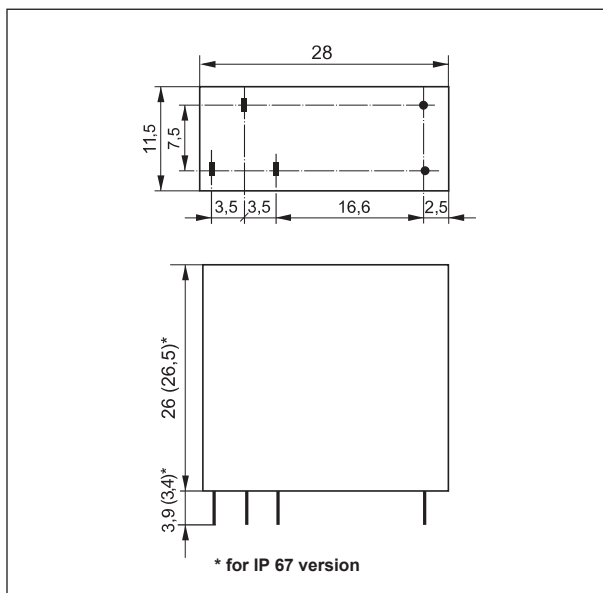
The data in bold type pertain to the standard versions of the relays.

Coil data - sensitive DC voltage version

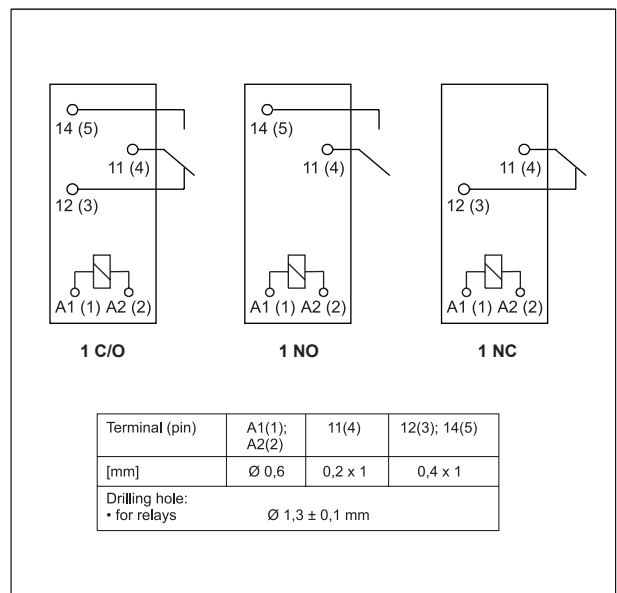
Table 2

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

Dimensions



Connection diagrams (pin side view)

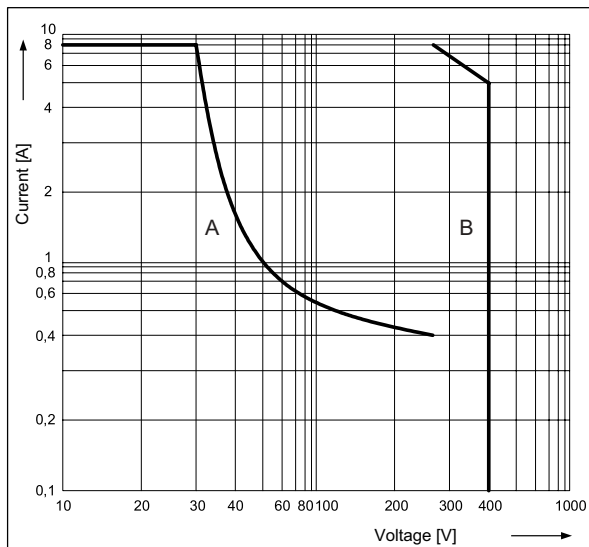


Mounting

Relays **RM92** are designed for: • direct PCB mounting • plug-in sockets for PCB mounting **EC35** with clip **MP25-2**, MH25-2, GD-0025, RM81-0001; plug-in sockets **GD35** with clip **MP25-2**, GD-0025, MH25-2, RM81-0001.

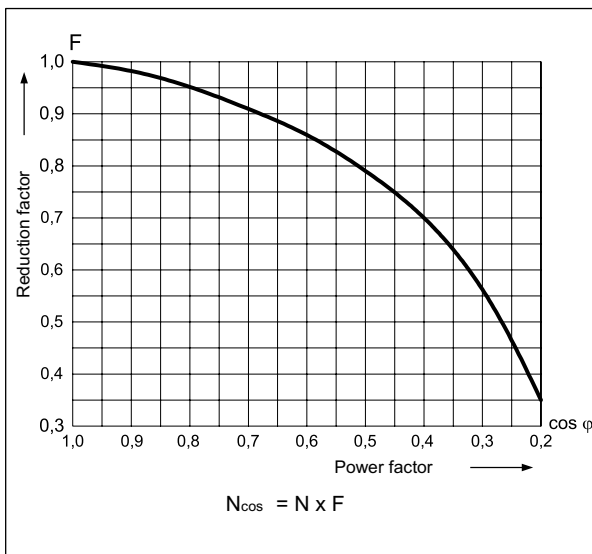
Max. breaking capacity
A - resistive load DC1
B - resistive load AC1

Fig. 1



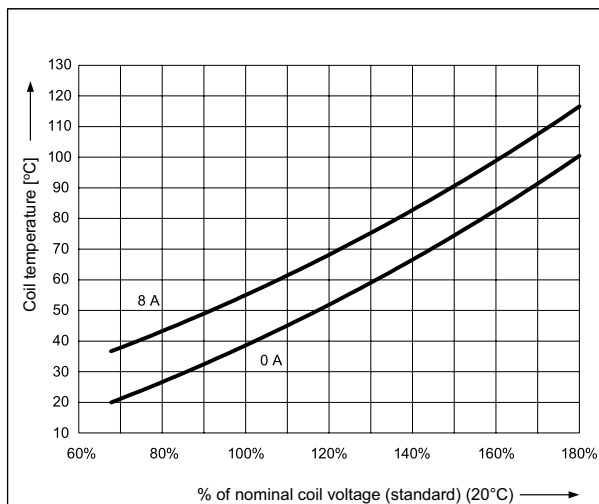
Electrical life reduction factor at AC inductive load

Fig. 2



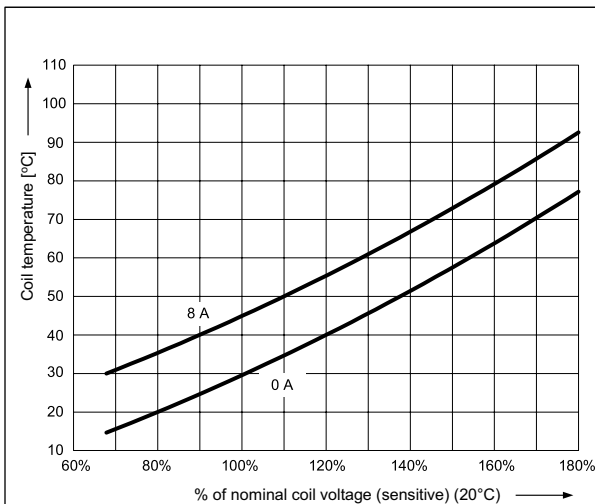
Coil temperature rise - standard version

Fig. 3

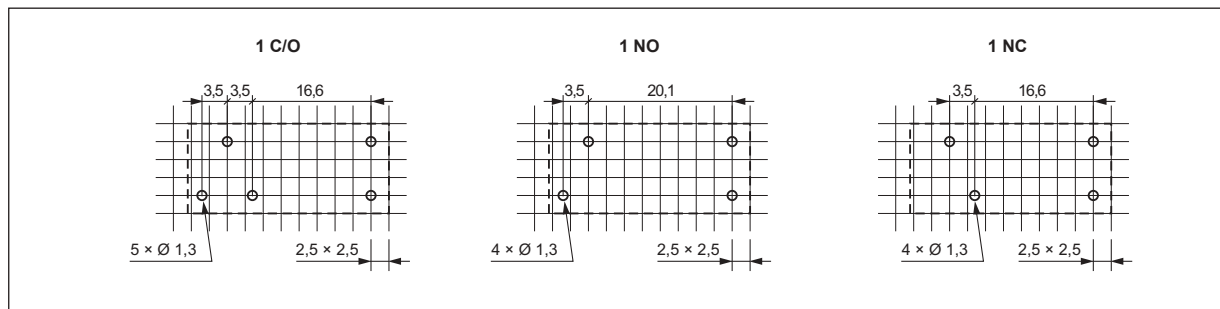


Coil temperature rise - sensitive version

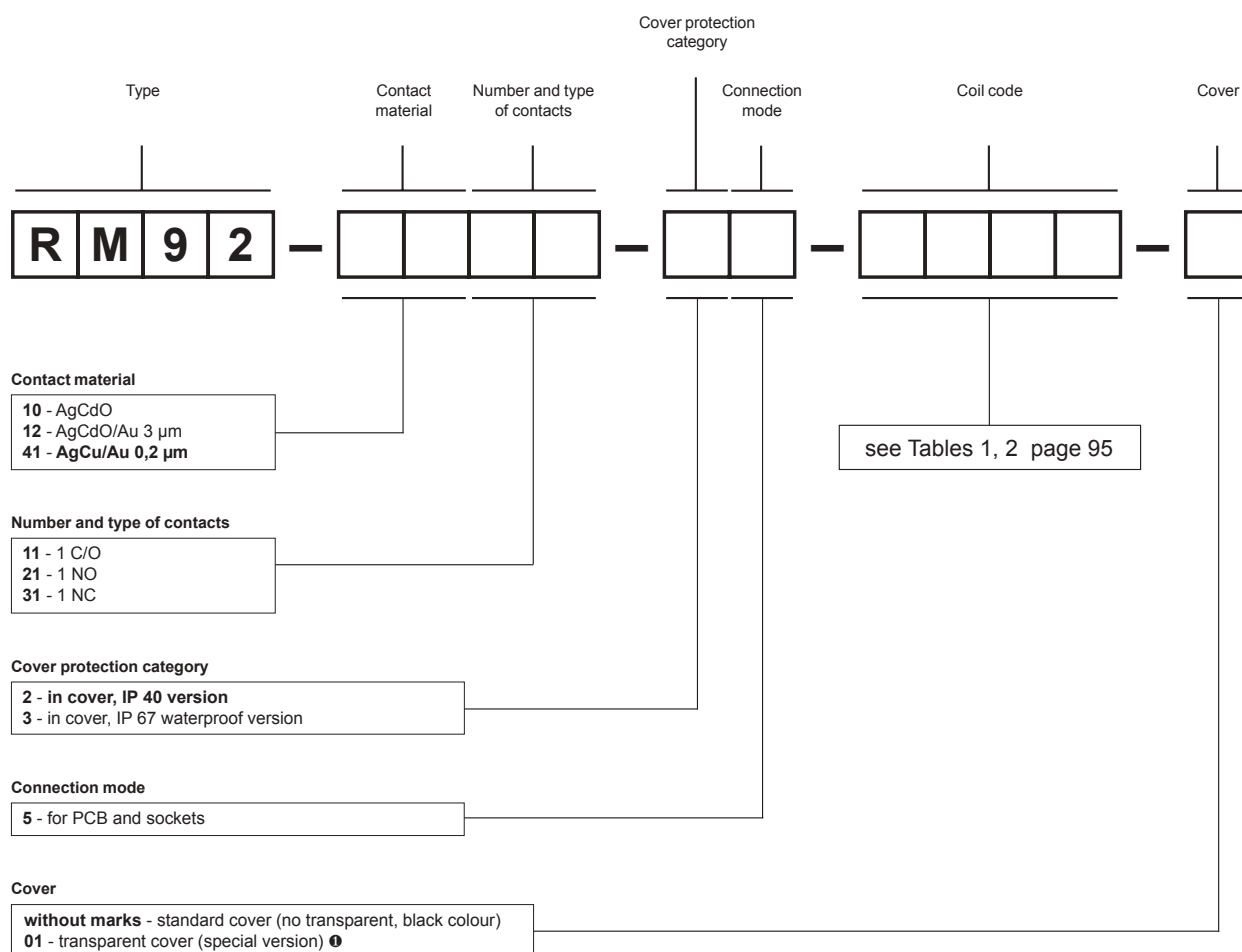
Fig. 4



Pinout (solder side view)



Ordering codes



Examples of ordering codes:

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

Print on relay cover

Type marking on relays cover **RM92** do not match the ordering codes.

Examples of marking:

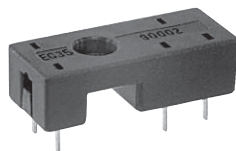
RM92P-24-W	RM92P - relay RM92 , with one changeover contact
	24 - voltage version 24 V DC
	W - in cover, IP 67 waterproof version
RM92P-24-S-W	RM92P - relay RM92 , with one changeover contact
	24 - voltage version 24 V DC
	S - sensitive version
	W - in cover, IP 67 waterproof version

Plug-in sockets and accessories for relays RM87N, RM92

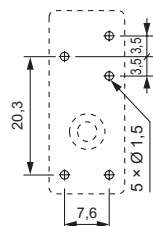
EC35

For RM87N, RM87N sensitive,
RM92

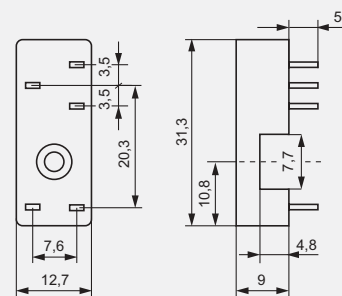
For PCB
31,3 x 12,7 x 9 mm
One pole, 3,5 mm pinout
12 A, 300 V AC



Pinout



Dimensions



Accessories

GD35

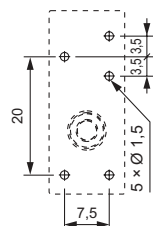
For RM87N, RM87N sensitive,
RM92

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

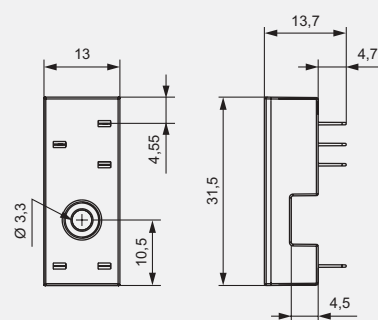
NEW
product



Pinout



Dimensions



Accessories