



- General purpose relays
- Sensitive coil available
- Protection category IP 40 or IP 67
- for PCB mounting
- Accessories: PCB sockets

Contacts

Contact number & arrangement		2C/O, 2NO, 2NC
Contact material		AgCdO , AgCdO/Au 3 μm, AgCu/Au 0,2 μm
Max. switching voltage	AC/DC	400 V / 250 V
Min. switching voltage		10 V AgCdO, 5 V AgCdO/Au 3 μm, 10 V AgCu/Au 0,2 μm
Rated load	AC1	8 A / 250 V AC
	DC1	8 A / 24 V DC
Min. switching current		5 mA AgCdO, 2 mA AgCdO/Au 3 μm, 5 mA AgCu/Au 0,2 μm
Rated current		8 A
Max. breaking capacity	AC1	2 000 VA
Min. breaking capacity		0,5 W AgCdO, 0,05 W AgCdO/Au 3 μm, 0,5 W AgCu/Au 0,2 μm
Resistance		≤ 100 mΩ
Max. operating frequency		
• at rated load	AC1	600 cycles/hour
• no load		72 000 cycles/hour

Coil

Rated voltage	DC	6...110 V standard version	5...110 V sensitive version
Must release voltage		DC: ≥ 0,1 U _n	
Operating range of supply voltage		see Table 1, 2	
Rated power consumption	DC	0,8 W standard version	0,5 W sensitive version

Insulation

Insulation category		C250
Insulation rated voltage		400 V AC
Dielectric strength		
• coil - contact		4 000 V AC
• contact - contact		1 000 V AC
• pole - pole		2 500 V AC
Contact - coil distance		
• clearance		≥ 8 mm
• creepage		≥ 8 mm

General data

Operating time (typical value)		7 ms
Release time (typical value)		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
Dimensions (L x W x H)		28 x 12,5 x 26 mm for IP 67 H=26,5 mm
Weight		20 g
Ambient temperature		
• storing		-40...+85 °C
• operating		-40...+70 °C
Cover protection category		IP 40 or IP 67
Shock resistance		20 g
Vibration resistance	(2NO/2NC)	10 g / 5 g 10...150 Hz
Solder bath temperature		max. 270 °C
Soldering time		max. 5 s

Standard contact material marked with bolt type.



Coil data - DC standard 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	47	3,9	8,5
1012	12	170	7,9	16,2
1024	24	740	16,8	33,6
1036	36	1 350	22,0	45,5
1048	48	3 200	34,0	70,0
1060	60	5 000	42,0	87,0
1096	96	10 000	61,0	125,0
1110	110	13 000	77,0	140,0

Standard coil rated voltages marked with bold type.

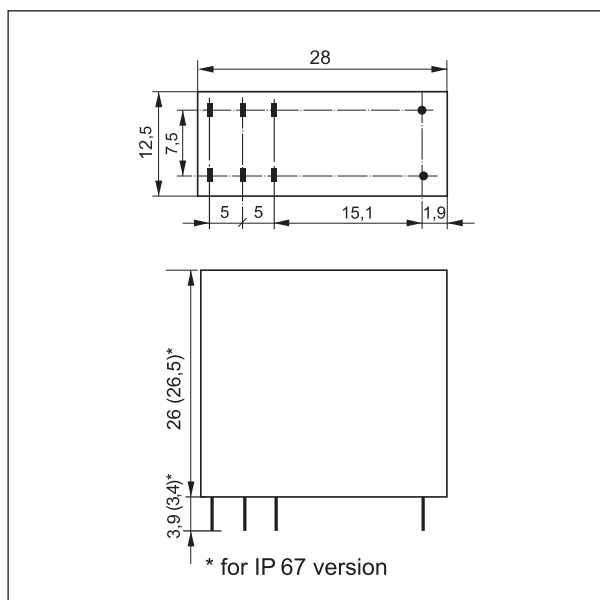
Coil data - DC sensitive version

Table 2

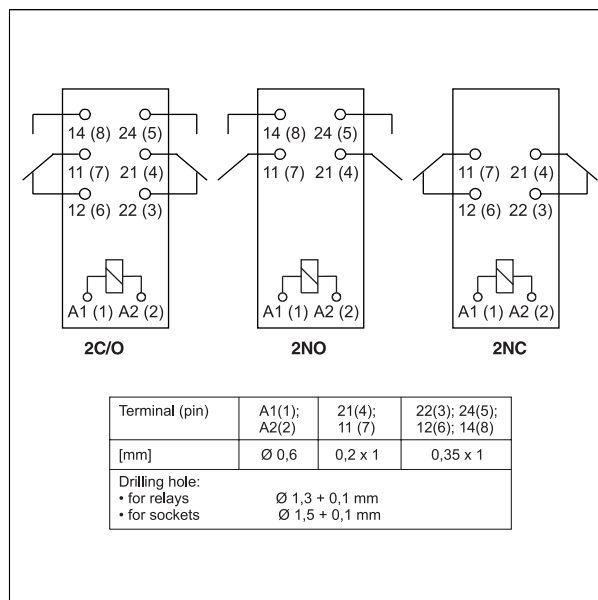
Coil code	Rated voltage V DC	Coil resistance $\pm 10\%$ at 20 °C Ω	Coil operating range at 20 °C V DC	
			min.	max.
S005	5	47	3,5	8,5
S006	6	70	4,4	10,3
S012	12	270	8,8	20,3
S024	24	1 100	17,5	41,0
S036	36	2 000	24,0	55,0
S048	48	4 400	35,0	82,0
S060	60	6 500	44,0	100,0
S110	110	20 000	88,0	188,0

Standard coil rated voltages marked with bold type.

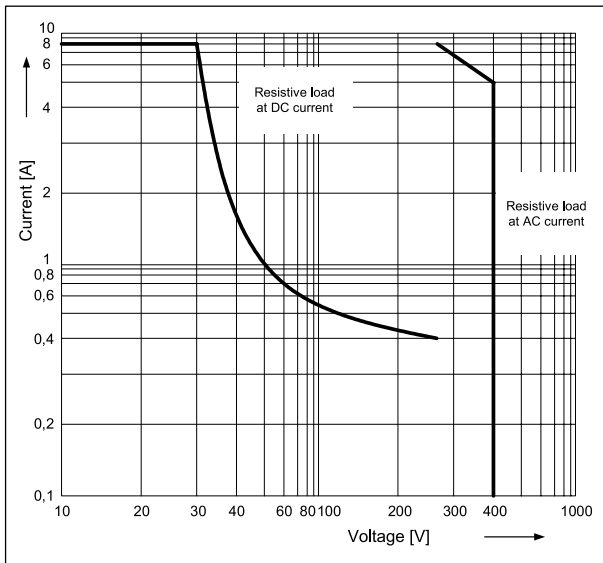
Dimensions



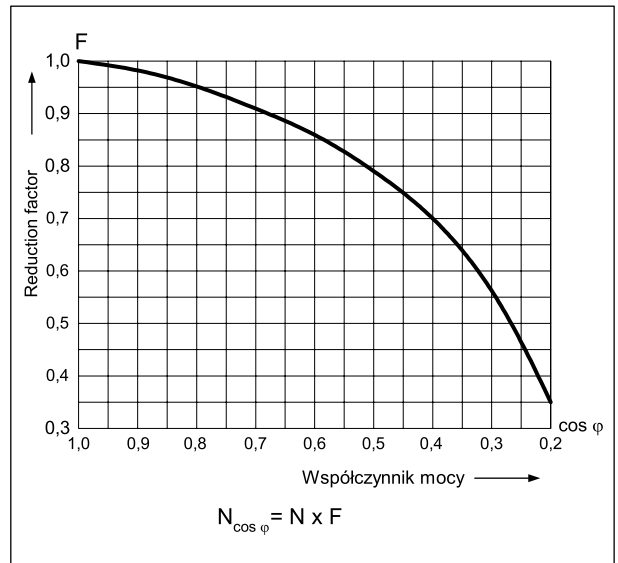
Connections diagram (pin side view)



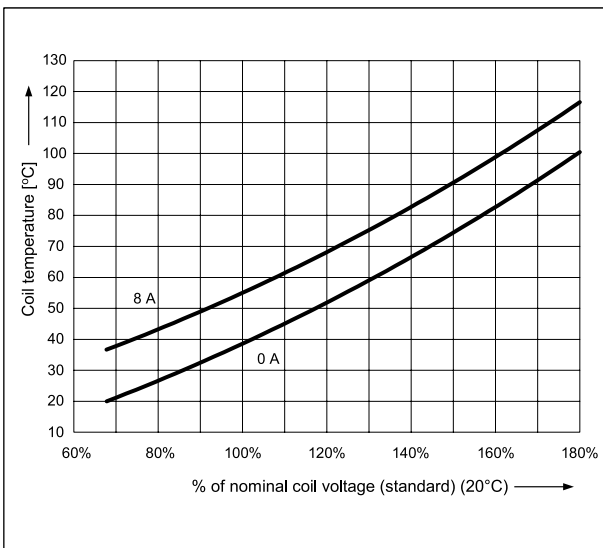
Max. AC and DC resistive load breaking capacity Fig. 1



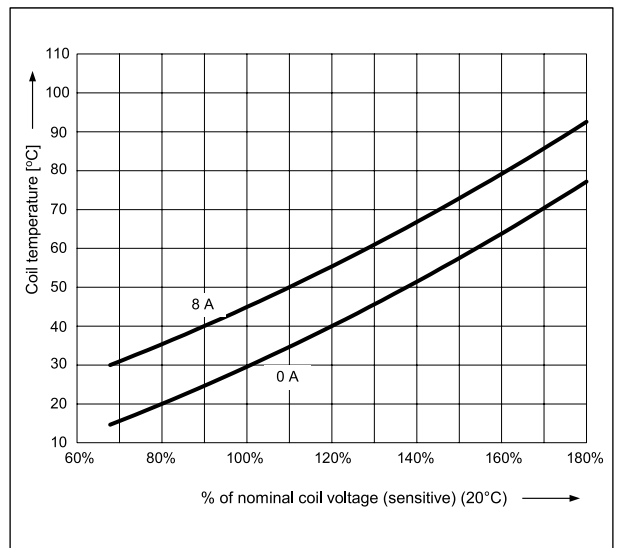
Electrical life reduction factor at AC inductive load Fig. 2



Coil temperature rise - standard version Fig. 3



Coil temperature rise - sensitive version Fig. 4



Mounting

Relays **RM94** are designed for: • direct PCB mounting • terminals sockets for PCB mounting **PW80** and **GW80** with clip **RM81 0001**.

Ordering codes

