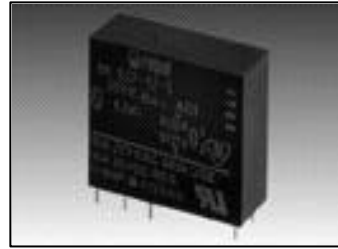


# RM94 MINIATURE POWER RELAY

## COIL DATA

Rated voltage 6...110 V DC (standard version)  
 5...60 V DC (sensitive version)  
 Must release voltage > 0,1 U<sub>n</sub>  
 Operating range of supply voltage see tables 1, 2  
 Rated power consumption 0,8 W (standard version)  
 0,5 W (sensitive version)



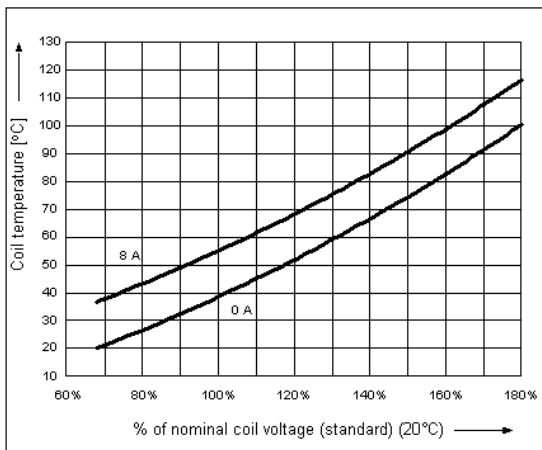
### Coil data - standard version

Coil code	Rated voltage V DC	Coil resistance +/- 10% at 20°C	Operating range of supply voltage 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	1350	22	45.5
1048	48	3200	34	70
1060	60	5000	42	87
1096	96	10000	61	125
1110	110	13000	77	140

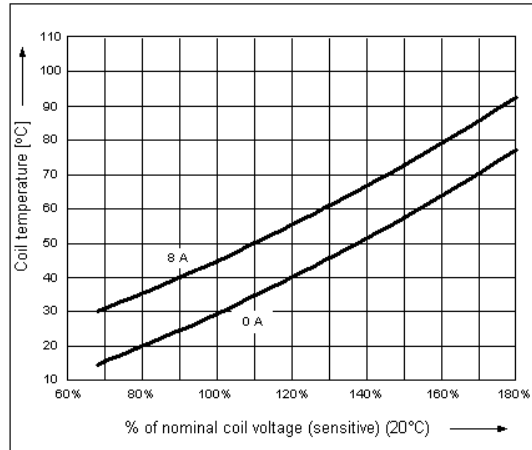
### Coil data - sensitive version

Coil code	Rated voltage V DC	Coil resistance +/- 10% at 20°C	Operating range of supply voltage 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	1100	17.5	41
S036	36	2000	24	55
S048	48	4400	35	82
S060	60	6500	44	100
S110	110	20500	77	188

### Coil temperature rise - standard version



### Coil temperature rise - sensitive version



## CONTACTS DATA

Contact number & arrangement 2C/O, 2NO, 2NC  
 Contact material AgCdO // AgCdO/Au 3µm  
 AgCu/Au 0,2µm

### Voltage

Max. switching voltage AC/DC 400 V / 250 V  
 Min. switching voltage AC/DC 5 V (AgCdO/Au 3µm)  
 10 V (AgCdO, AgCu/Au 0,2µm)

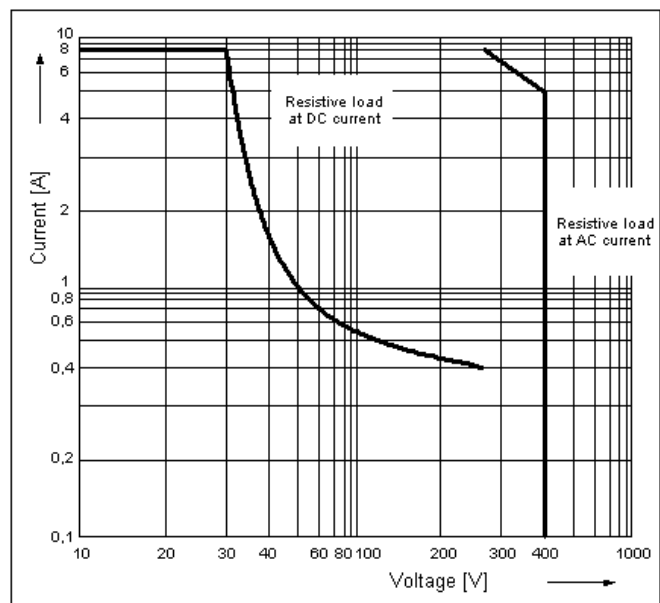
### Current

Rated load AC1 8 A / 250 V AC  
 DC1 8 A / 24 V DC  
 Min. switching current 5 mA  
 Rated current 8 A  
 Max. breaking capacity 2 000 VA  
 Min. breaking capacity contact manufacturer  
 Resistance < 100 mOhm at 10 mA, 1 V

### Max. operating frequency

at rated load 600 cycles/hour  
 no load 72 000 cycles/hour

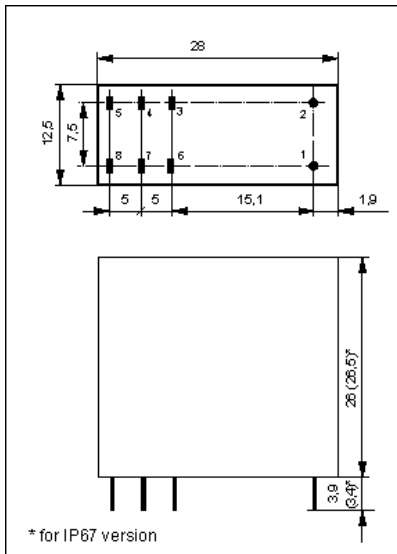
## MAXIMUM AC AND DC RESISTIVE LOAD BREAKING CAPACITY



**GENERAL DATA**

Operating time (typical value) 7 ms  
 Release time (typical value) 2 ms  
**Electrical life**  
 resistive >2 x 10<sup>5</sup> at 8 A, 250 V AC  
 cos φ see Power Factor diagram  
 Mechanical life (cycles) >3 x 10<sup>7</sup>  
 Dimensions (L x W x H), mm 28 x 12,5 x 26  
 (26,5 for IP67 version)  
 Weight 20 g  
**Ambient temperature**  
 storing -40...+85°C  
 operating -40...+70°C  
 Cover protection category IP40 or IP67  
 Shock resistance 20 g  
 Vibration resistance (NC/NO) 10 g / 5 g for 10...150 Hz  
 Solder bath temperature max. 270°C  
 Soldering time max. 5 s

**DIMENSIONS, MM**



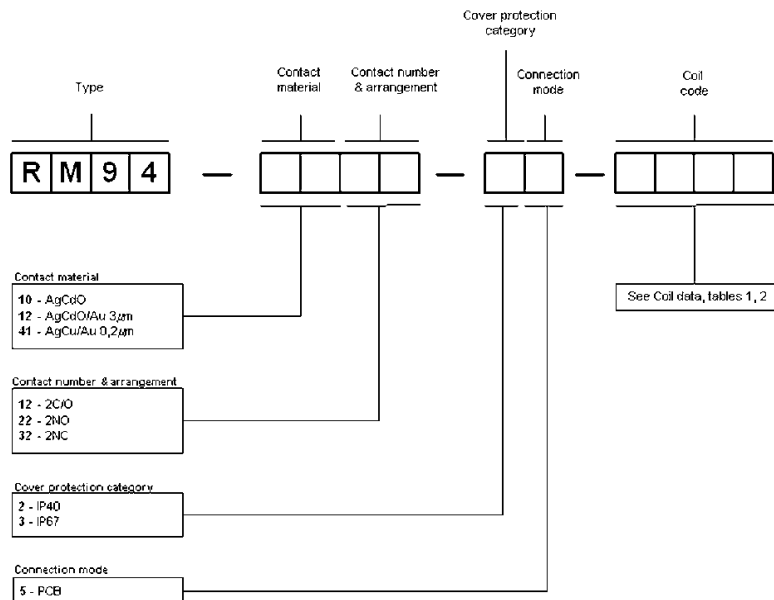
**INSULATION DATA**

Insulation category C250  
**Voltage**  
 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

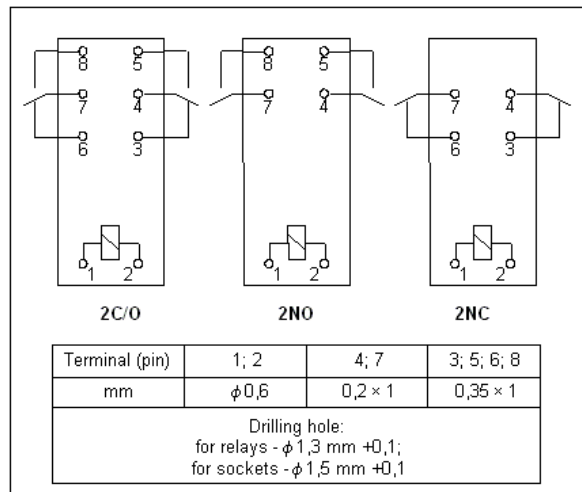
**MOUNTING:**

- direct PCB mounting (PCB terminals socket GW80 (clip RM81 0001) and PW80 (clip RM81 0001))
- DIN rail mount socket with screw terminals GZ80 (clip GZ80 1001 or MS25)+ Indicator modules for GZ80 sockets

**HOW TO ORDER RM94 RELAY: ORDERING CODES**



**CONNECTIONS DIAGRAM**



**ELECTRICAL LIFE REDUCTION FACTOR AT AC INDUCTIVE LOAD**

