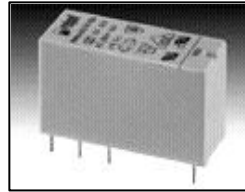


# RM84 MINIATURE POWER RELAY

## COIL DATA

Rated voltage 3...110 V DC, 24...240 V AC  
 Must release voltage > 0,1 U<sub>N</sub>  
 Operating range of supply voltage see Table and information below  
 Rated power consumption 0,4...0,48 W



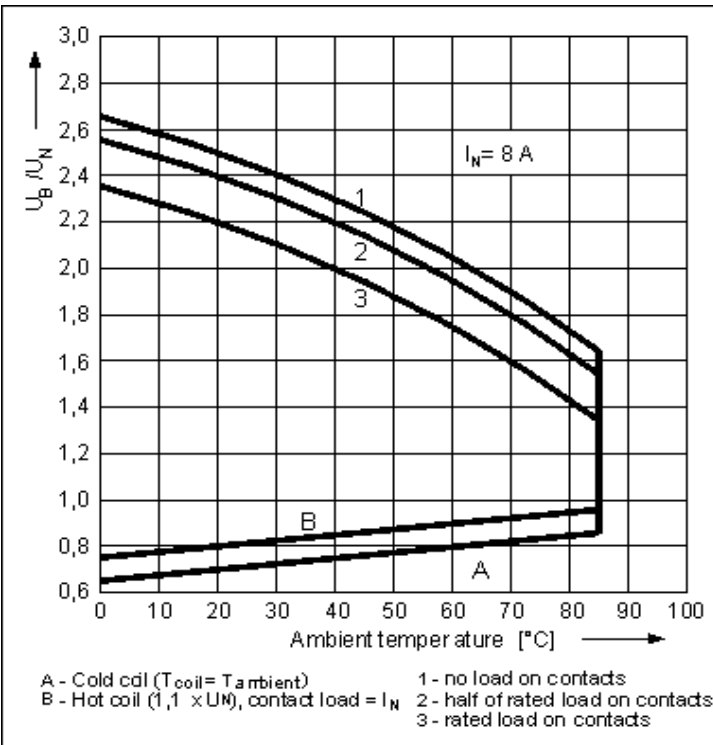
### Coil data - DC version

Coil code	Rated voltage V DC	Coil resistance +/- 10% at 20°C, Ohm	Operating range of supply voltage at 20°C, V DC	
			min.	max.
1003	3	22	2.1	7.6
1005	5	60	3.5	12.7
1006	6	90	4.2	15.3
1009	9	200	6.3	22.9
1012	12	360	8.4	30.6
1018	18	710	12.6	45.9
1024	24	1440	16.8	61.2
1036	36	3140	25.2	91.8
1048	48	5700	33.6	122.4
1060	60	7500	42	153
1110	110	25200	77	280

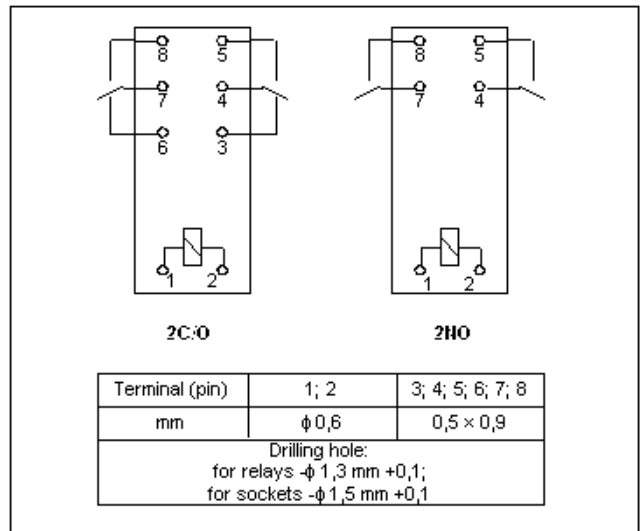
### Coil data - AC version

Coil code	Rated voltage V AC	Coil resistance +/- 10% at 20°C, Ohm	Operating range of supply voltage at 20°C, V AC	
			min.	max.
5024	24	400	19,2	28,8
5048	48	1550	38,4	57,6
5060	60	2600	48,0	72,0
5110	110	8900	88,0	132,0
5115	115	9600	92,0	138,0
5120	120	10200	96,0	144,0
5220	220	35500	176,0	264,0
5230	230	38500	184,0	276,0
5240	240	42500 (15%)	192,0	288,0

## COIL OPERATING RANGE



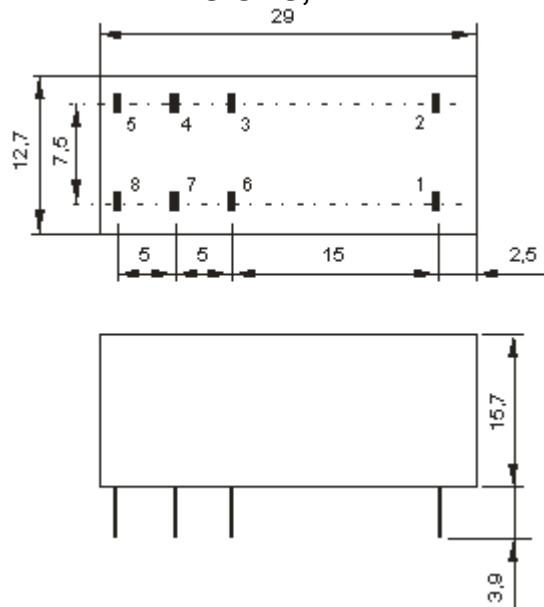
## CONNECTIONS DIAGRAM



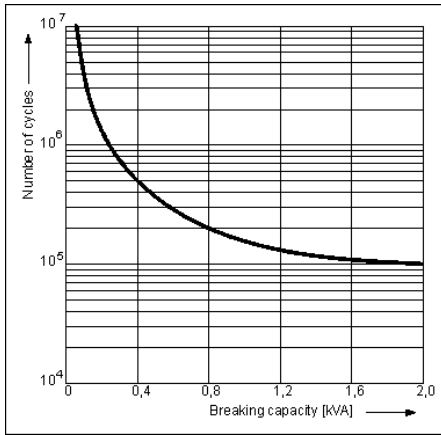
## CONTACTS DATA

Contact number & arrangement 2C/O, 2NO  
 Contact material AgNi // AgNi/Au 5 μm // AgSnO<sub>2</sub>  
**Voltage**  
 Max. switching voltage AC/DC 400 V / 300 V  
 Min. switching voltage AC/DC 5 V (AgNi)  
 AgNi/Au 5 μm)  
 10 V (AgSnO<sub>2</sub>)  
**Current**  
 Rated load AC1 8 A / 250 V AC  
 DC1 8 A / 24 V DC  
 Min. switching current 5 mA  
 Max. inrush current 70 A for NO AgSnO<sub>2</sub>  
 Rated current 8 A  
 Max. breaking capacity 2 000 VA  
 Min. breaking capacity 0,3 W (AgNi, AgNi/Au 5 μm)  
 0,5 W (AgSnO<sub>2</sub>)  
 Resistance < 100 mOhm at 1 A, 24 V  
**Max. operating frequency**  
 at rated load 600 cycles/hour  
 no load 72 000 cycles/hour

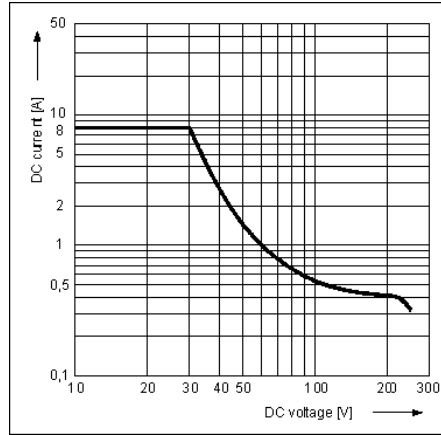
## DIMENSIONS, MM



### ELECTRICAL LIFE AT AC RESISTIVE LOAD



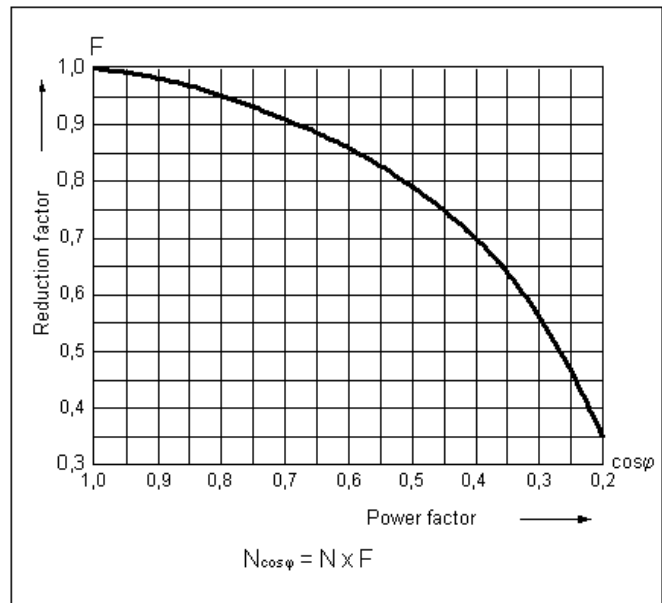
### MAX. DC RESISTIVE LOAD BREAKING CAPACITY



### GENERAL DATA

Operating time (typical value)	7 ms
Release time (typical value)	3 ms
<b>Electrical life</b> resistive	>10 <sup>5</sup> at 8 A, 250 V AC
cos φ	see electrical life diagram
L/R = 40 ms	>10 <sup>5</sup> at 0,12 A, 220 V DC
Mechanical life (cycles)	>3 x 10 <sup>7</sup>
Dimensions (L x W x H)	29 x 12,7 x 15,7 mm
Weight	14 g
<b>Ambient temperature</b> storing and operating	-40...+85 °C
Cover protection category	IP40 or IP67
Vibration resistance (NC/NO)	10 g / 5 g for 10...150 Hz
Solder bath temperature	max. 270 °C
Soldering time	max. 5 s

### ELECTRICAL LIFE REDUCTION FACTOR AT AC INDUCTIVE LOAD



### INSULATION DATA

<b>Insulation category</b>	C250
<b>Voltage</b>	
Insulation rated voltage	400 V AC
<b>Dielectric strength</b>	
coil-contact	5 000 V AC
contact-contact	1 000 V AC
pole-pole	2 500 V AC
<b>Contact-coil distance</b>	
clearance	> 10 mm
creepage	> 10 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 RM84 RELAY: ORDERING CODES

