# RM64 MINIATURE POWER RELAY

## COIL DATA

| | |
|---|---|
| Rated voltage | 6...240 V AC |
| Must release voltage | > 0,15 $U_n$ |
| Operating range of supply voltage | see Table below |
| Rated power consumption | 1,6 VA |

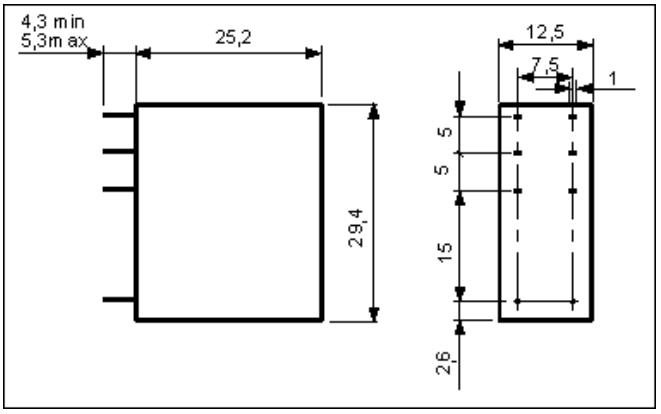
### Coil data: AC version

| Coil code | Rated voltage V AC | Rated current ± 10% mA | Coil resistance ± % at 20°C Ohm | Resistance tolerance ± % | Operating range of supply voltage at 20°C, V AC min. | max. |
|---|---|---|---|---|---|---|
| **3006** | 6 | 270,0 | 12 | 10 | 4,8 | 6,6 |
| **3012** | 12 | 119,0 | 56 | 10 | 9,6 | 13,2 |
| **3024** | 24 | 57,0 | 230 | 10 | 19,2 | 26,4 |
| **3048** | 48 | 30,5 | 870 | 15 | 38,4 | 52,8 |
| **3060** | 60 | 23,8 | 1500 | 15 | 48,0 | 66,0 |
| **3110** | 110 | 12,3 | 5 300 | 15 | 88,0 | 129,0 |
| **3220** | 220 | 5,9 | 20 000 | 15 | 176,0 | 242,0 |
| **3240** | 240 | 5,7 | 25 000 | 15 | 192,0 | 264,0 |

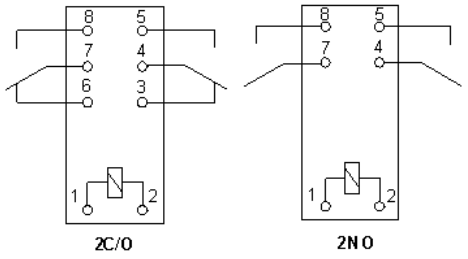
## CONTACTS DATA

| | | |
|---|---|---|
| Contact number & arrangement | | 2C/O, 2NO |
| Contact material | | AgCdO; $AgSnO_2$ |
| **Voltage** | | |
| Max. switching voltage AC/DC | | 400 V / 250 V |
| Min. switching voltage | | 10 V |
| **Current** | | |
| Rated load | AC1 | 10 A / 250 V AC |
| | DC1 | 10 A / 24 V DC |
| Min. switching current | | 5 mA |
| Max. inrush current | | 14 A |
| Rated current | | 10A |
| Max. breaking capacity | | 2500 VA |
| Min. breaking capacity | | 0,5 W |
| Resistance | | < 100 mOhm at 1 A, 24 V |
| **Max. operating frequency** | | |
| | at rated load | 3 600 cycles/hour |
| | no load | 18 000 cycles/hour |

## DIMENSIONS

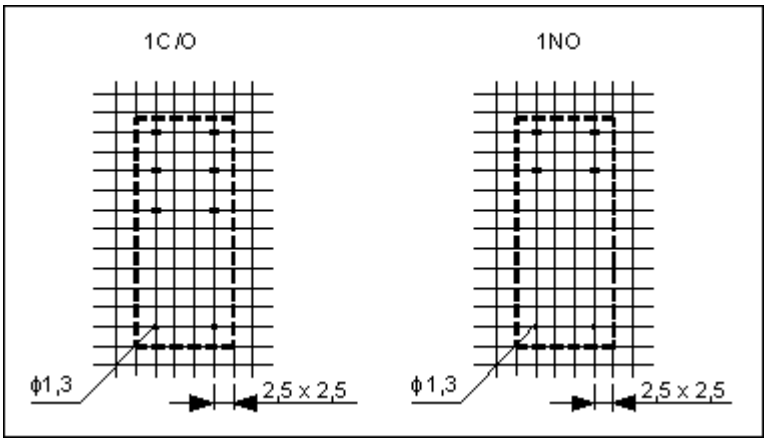



## CONNECTIONS DIAGRAM




| Terminal (pin) | 1; 2 | 4; 7 | 3;5; 6;8 |
|---|---|---|---|
| mm | 0,6 x 1 | 0,2 x 1 | 0,4 x 1 |
| Drilling hole: for relays - ϕ 1,3 mm +0,1; for sockets - ϕ 1,5 mm +0,1 | | | |

## DRILLING PATTERN

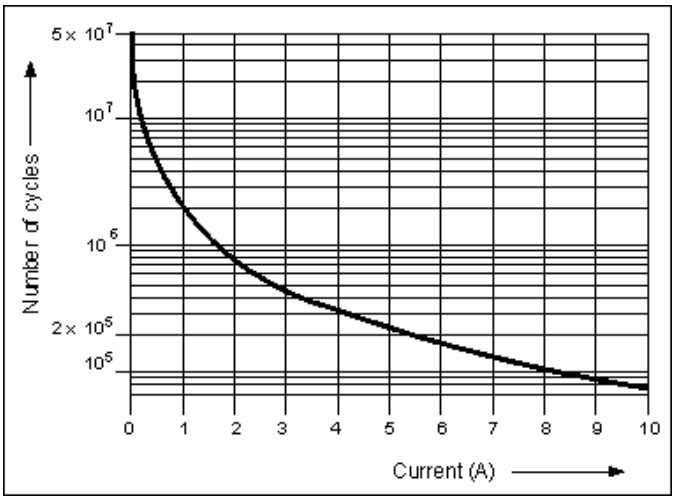



## GENERAL DATA

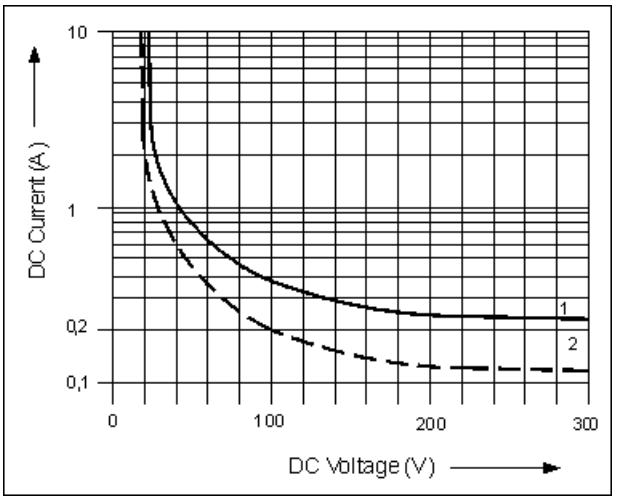
| | |
|---|---|
| Operatig time (typical value) | 10 ms |
| Release time (typical value) | 5 ms |
| Electrical life (resistive) | >7,5 x $10^4$ at 1000 cycles/hour |
| | >8 x $10^4$ at 500 cycles/hour |
| Mechanical life (cycles) | >5 x $10^7$ |
| Dimensions (LxWxH) | 29,4 x 12,5 x 25,2 mm |
| Weight | 15...18 g |
| **Ambient temperature** | |
| storing | -40...+85 °C |
| operating | -40...+70 °C |
| Protection category | IP40 or IP67 |
| Shock resistance | 10 g |
| Vibration resistance | 2,5 mm for 5...45 Hz |
| | 10 g for 45...200 Hz |
| Solder bath temperature | max. 270°C |
| Soldering time | max. 5s |

## EXPECTED LIFE AT 250 V AC

## (RESISTIVE LOADS AND REPETITION RATE 1000 CYCLES/HOUR)




## MAX. SWITCHING POWER DC




**1 - resistive load**
**2 - inductive load (L/R < 40 ms)**

## INSULATION DATA

| | |
|---|---|
| Insulation category | C250 |
| **Voltage** | |
| Insulation rated voltage | 400 V AC |
| Dielectric strength | |
| coil-contact | 5 000 V AC |
| contact-contact | 1 000 V AC |
| pole-pole | 4 000 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

## ORDERING CODES