**RMP7 1 CO** **RMP7 2 CO**





- **Terminals for flat insert connectors: faston 4,7 x 0,5 mm for version 1 CO; faston 2,5 x 0,5 mm for version 2 CO**
- Height 32,3 mm • AC and DC coils
- Standard equipment of relays:
  - mechanical indicator
  - lockable front test button
  - light indicator - LED diode (AC red, DC green)
- For plug-in sockets • Accessories: sockets and modules
- Recognitions, certifications, directives: RoHS,

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## Contact data

| | | | |
|---|---|---|---|
| Number and type of contacts | | 1 CO, 2 CO | |
| Contact material | | **AgNi** | |
| Rated / max. switching voltage | AC | 250 V / 300 V | |
| Min. switching voltage | | 12 V | |
| Rated load | AC1 | 1 CO: 16 A / 250 V AC | 2 CO: 8 A / 250 V AC |
| | DC1 | 1 CO: 16 A / 30 V DC | 2 CO: 8 A / 30 V DC |
| Min. switching current | | 10 mA | |
| Max. make current | | 1 CO: 16 A 20 ms | 2 CO: 10 A 20 ms |
| Rated current | | 1 CO: 16 A | 2 CO: 8 A |
| Max. breaking capacity | AC1 | 1 CO: 3 000 VA | 2 CO: 2 000 VA |
| Min. breaking capacity | | 1 W | |
| Contact resistance | | ≤ 100 mΩ | |
| Max. operating frequency | • at rated load AC1 | 600 cycles/hour | |
| | • no load | 18 000 cycles/hour | |

## Coil data

| | | | |
|---|---|---|---|
| Rated voltage | 50 Hz AC | **24**, 110, **230** V | |
| | DC | 12, **24**, 110 V | |
| Must release voltage | | AC: ≥ 0,3 $U_n$ | DC: ≥ 0,1 $U_n$ |
| Operating range of supply voltage | | 0,8...1,1 $U_n$ | see Tables 1, 2 |
| Rated power consumption | AC | 1,6 VA | |
| | DC | 0,53 W | |

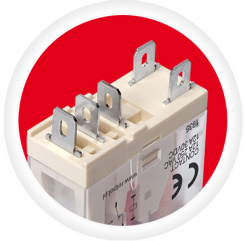
## Insulation according to EN 60664-1

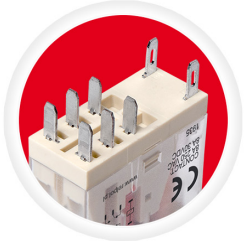
| | | | |
|---|---|---|---|
| Insulation rated voltage | | 250 V AC | |
| Rated surge voltage | | 2 000 V 1,2 / 50 µs | |
| Overvoltage category | | II | |
| Insulation pollution degree | | 3 | |
| Insulation resistance | | > 1 000 MΩ | 500 V DC |
| Dielectric strength | • between coil and contacts | 2 000 V AC | 50/60 Hz, 1 min., type of insulation: basic |
| | • contact clearance | 1 000 V AC | 50/60 Hz, 1 min., type of clearance: micro-disconnection |
| | • pole - pole | 2 500 V AC | contacts 2 CO, 50/60 Hz, 1 min., type of insulation: basic |

## General data

| | | | |
|---|---|---|---|
| Operating / release time (typical values) | | 20 ms / 10 ms | |
| Electrical life (number of cycles) | | | |
| • resistive AC1 | | > $10^5$ | 8 A, 16 A, 250 V AC |
| Mechanical life (cycles) | | > $10^7$ | |
| Dimensions (L x W x H) | | 30,6 x 12,6 x 32,3 mm | |
| Weight | | 20 g | |
| Ambient temperature | • storage | -40...+70 °C | |
| (non-condensation and/or icing) | • operating | -40...+55 °C | |
| Cover protection category | | IP 00 | EN 60529 |
| Environmental protection | | RTII | EN 61810-1 |
| Relative humidity | | 5...85% | |
| Shock resistance | | 98 m/s² 6 ms | |
| Vibration resistance | | 1,0 mm DA (double amplitude) | 10...55 Hz |

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





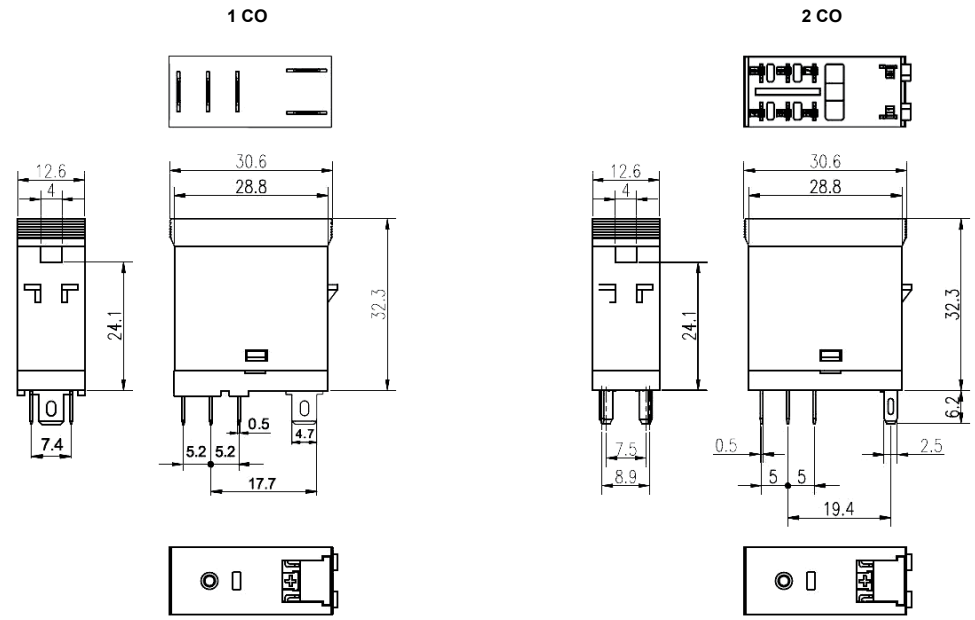
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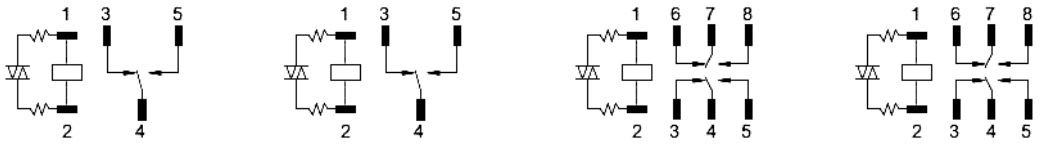


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## Dimensions




## Connection diagrams (pin side view)




**1 CO (DC coil)**
**LED green**

**1 CO (AC coil)**
**LED red**

**2 CO (DC coil)**
**LED green**

**2 CO (AC coil)**
**LED red**

## Mounting, sockets and accessories for relays

Relays **RMP7** are designed for mounting in plug-in sockets.

| Sockets for RMP7 | Accessories | | Additional equipment |
|---|---|---|---|
| | Retainer / retractor clips | Description plates | |
| **Screw terminals sockets**, 35 mm rail mount (acc. to EN 60715) or on panel mounting (one M3 screw) | | | |
| GZ71 ❶ | ❸ | ❸ | Y... ❹ |
| GZ72 ❷ | ❸ | ❸ | Y... ❹ |
| **Push-in terminals sockets**, 35 mm rail mount (acc. to EN 60715) or on panel mounting (one M3 screw) | | | |
| GZP71 ❶ | ❸ | ❸ | Y... ❹ |
| GZP72 ❷ | ❸ | ❸ | Y... ❹ |

❶ Sockets GZ71, GZP71: for version 1 CO. ❷ Sockets GZ72, GZP72: for version 2 CO.
❸ Retainer / retractor clips, description plates: should be ordered separately.
❹ Signalling / protecting modules type Y... - see www.relpol.com.pl

**PRECAUTIONS:**
**1.** Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. **2.** Never touch any live parts of the device. **3.** Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. **4.** In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.

**Coil data** - DC voltage version — Table 1

| Coil code | Rated voltage V DC | Coil resistance at 20 °C Ω | Acceptable resistance | Coil operating range V DC | |
|---|---|---|---|---|---|
| | | | | min. (at 20 °C) | max. (at 20 °C) |
| 1012 | 12 | 270 | ± 10% | 9,6 | 13,2 |
| **1024** | **24** | **1 100** | **± 10%** | **19,2** | **26,4** |
| 1110 | 110 | 22 800 | ± 10% | 88,0 | 121,0 |

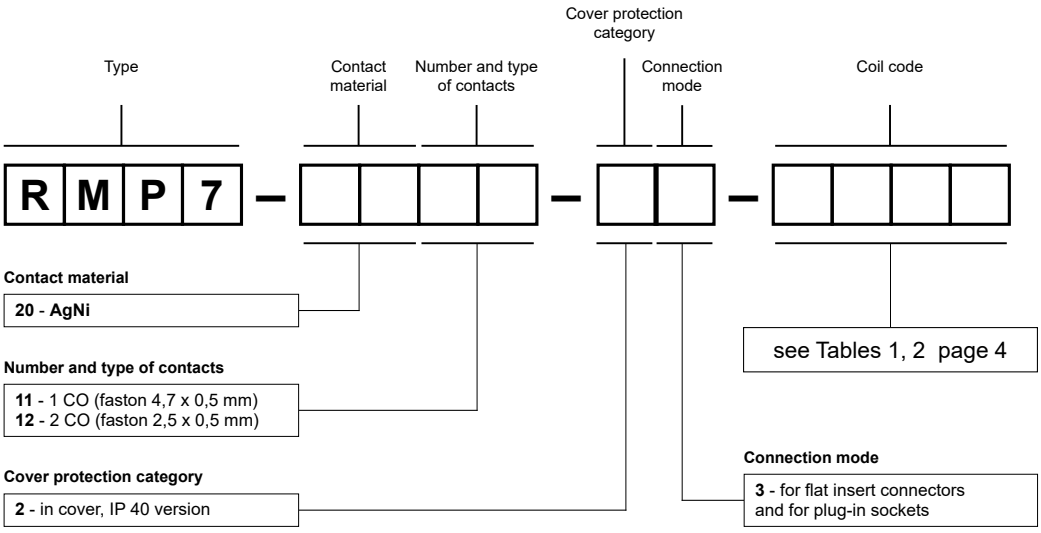
The data in bold type relate to the standard versions of the relays.

**Coil data** - AC 50 Hz voltage version — Table 2

| Coil code | Rated voltage V AC | Coil resistance at 20 °C Ω | Acceptable resistance | Coil operating range V AC 50 Hz | |
|---|---|---|---|---|---|
| | | | | min. (at 20 °C) | max. (at 20 °C) |
| **5024** | **24** | **240** | **± 10%** | **19,2** | **26,4** |
| 5110 | 110 | 6 300 | ± 10% | 88,0 | 121,0 |
| **5230** | **230** | **23 000** | **± 10%** | **184,0** | **253,0** |

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

## Ordering codes




Examples of ordering code:

**RMP7-2011-23-1012** relay **RMP7**, faston 4,7 x 0,5 mm, for plug-in sockets, one changeover contact, contact material AgNi, coil voltage 12 V DC, in cover IP 40

**RMP7-2012-23-5230** relay **RMP7**, faston 2,5 x 0,5 mm, for plug-in sockets, two changeover contacts, contact material AgNi, coil voltage 230 V AC 50 Hz, in cover IP 40

**PI71P, PI72P**

Interface relays with Push-in terminals - see www.relpol.com.pl

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