

RMP7

miniature relays

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,

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 DC1	1 CO: 12 A / 250 V AC 1 CO: 12 A / 30 V DC
		2 CO: 8 A / 250 V AC 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: 12 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 • no load	600 cycles/hour 18 000 cycles/hour

Coil data

Rated voltage	50 Hz AC DC	24, 110, 230 V 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 DC	1,6 VA 0,53 W

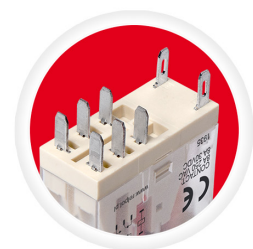
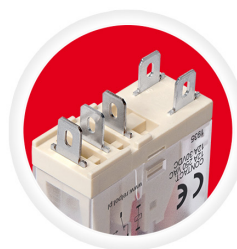
Insulation according to EN 60664-1

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 • contact clearance • pole - pole	2 000 V AC 50/60 Hz, 1 min., type of insulation: basic 1 000 V AC 50/60 Hz, 1 min., type of clearance: micro-disconnection 2 500 V AC contacts 2 CO, 50/60 Hz, 1 min., type of insulation: basic

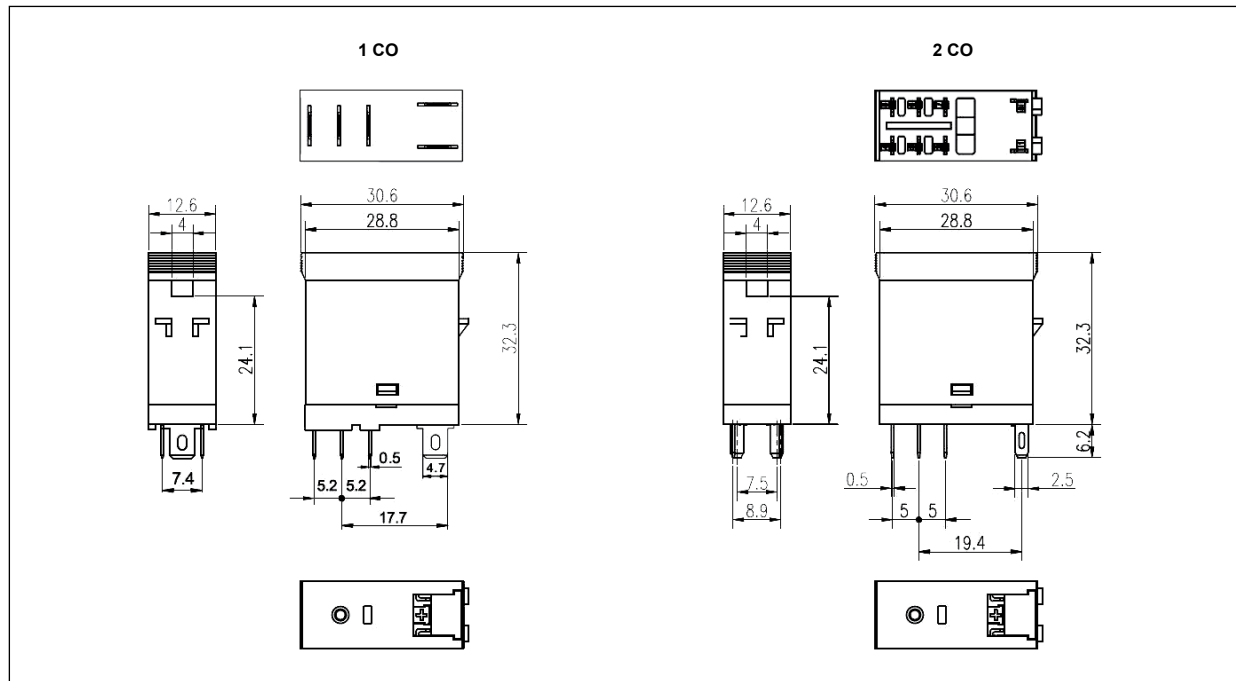
General data

Operating / release time (typical values)	20 ms / 10 ms	
Electrical life (number of cycles)		
• resistive AC1	> 10 ⁵ 8 A, 12 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 (non-condensation and/or icing)	-40...+70 °C -40...+55 °C
Cover protection category	IP 00	EN 60529
Environmental protection	RTII	EN 61810-1
Relative humidity	5...85%	
Shock resistance	98 m/s ² 6 ms	
Vibration resistance	1,0 mm DA (double amplitude) 10...55 Hz	

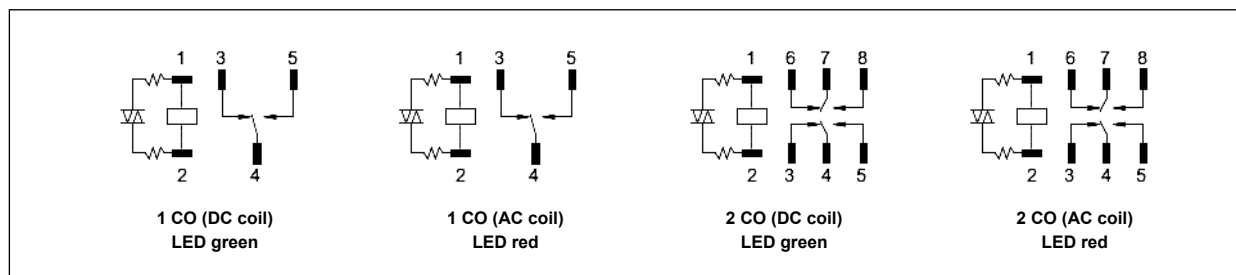
The data in bold type relate to the standard versions of the relays.



Dimensions



Connection diagrams (pin side view)



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	❹	Y... ❷
GZ72 ❷	❸	❹	Y... ❷
Push-in terminals sockets, 35 mm rail mount (acc. to EN 60715) or on panel mounting (one M3 screw)			
GZP71 ❶	❸	❹	Y... ❷
GZP72 ❷	❸	❹	Y... ❷

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	$\pm 10\%$	9,6	13,2
1024	24	1 100	$\pm 10\%$	19,2	26,4
1110	110	22 800	$\pm 10\%$	88,0	121,0

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

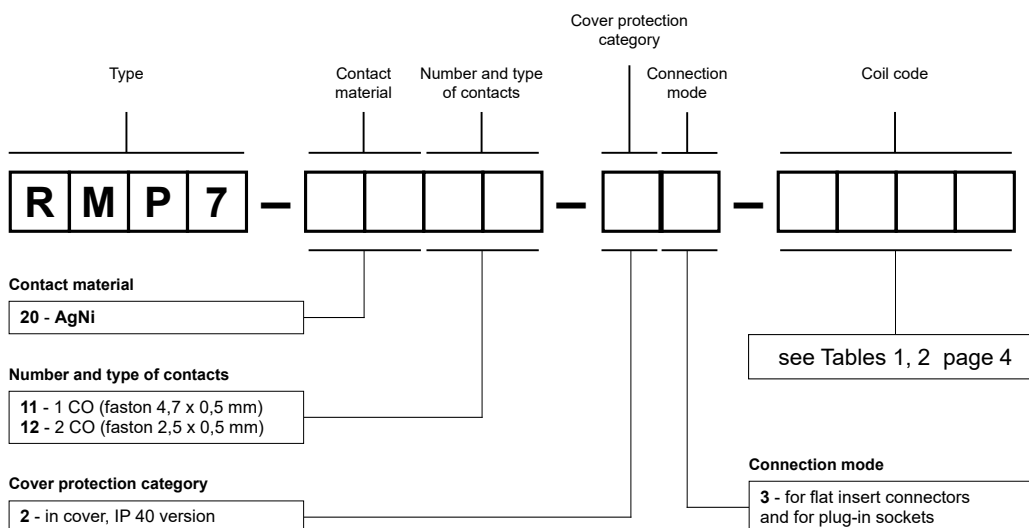
Coil data - AC 50 Hz voltage version

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	$\pm 10\%$	19,2	26,4
5110	110	6 300	$\pm 10\%$	88,0	121,0
5230	230	23 000	$\pm 10\%$	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.repol.com.pl

NEW

