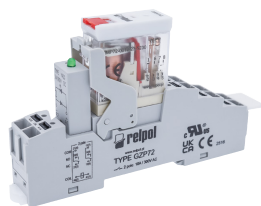
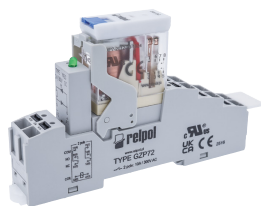


# PI72P with socket Push-in GZP72 interface relays with Push-in terminals

RMP7 (AC) + GZP72



RMP7 (DC) + GZP72



- Interface relay **PI72P with socket GZP72** consists of: electro-magnetic relay **RMP7**, grey plug-in socket **GZP72**, signalling / protecting module type **Y...**, retainer / retractor clip (plastic)
- 35 mm rail mount acc. to EN 60715 or on panel mounting with one M3 screw
- Recognitions, certifications\*, directives: recognitions RMP7, RoHS,



## Contact data

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

**NEW**

## Coil data

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| Rated voltage                     | 50 Hz AC 24, 110, <b>230 V</b><br>DC 12, <b>24</b> , 110 V |
| Must release voltage              | AC: ≥ 0,3 U <sub>n</sub> DC: ≥ 0,1 U <sub>n</sub>          |
| Operating range of supply voltage | 0,8...1,1 U <sub>n</sub> see Tables 1, 2                   |
| Rated power consumption           | AC 1,6 VA<br>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<br>• contact clearance 1 000 V AC 50/60 Hz, 1 min., type of clearance: micro-disconnection<br>• pole - pole 2 500 V AC 50/60 Hz, 1 min., type of insulation: basic |
| Contact - coil distance     | • clearance ≥ 8 mm<br>• creepage ≥ 8 mm                                                                                                                                                                                                               |

## General data

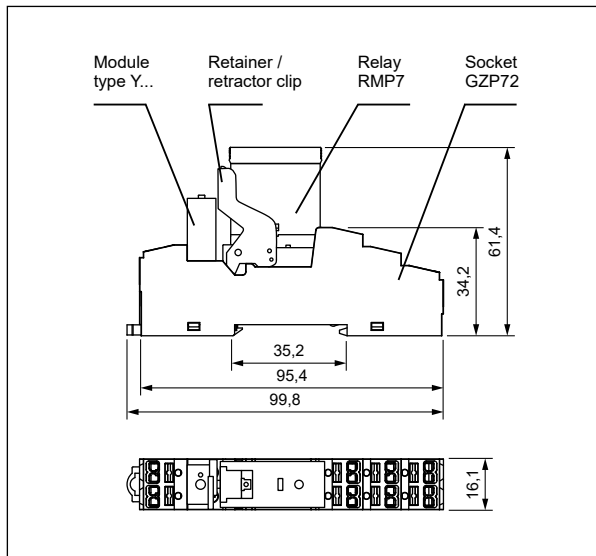
|                                           |                                                                                    |
|-------------------------------------------|------------------------------------------------------------------------------------|
| Operating / release time (typical values) | 20 ms / 10 ms                                                                      |
| Electrical life (number of cycles)        |                                                                                    |
| • resistive AC1                           | > 10 <sup>5</sup> 8 A, 250 V AC                                                    |
| Mechanical life (cycles)                  | > 10 <sup>7</sup>                                                                  |
| Dimensions (L x W x H)                    | 99,8 x 16,1 x 61,4 mm                                                              |
| Weight                                    | 59,7 g                                                                             |
| Ambient temperature                       | • storage -40...+70 °C<br>• operating (non-condensation and/or icing) -40...+55 °C |
| Cover protection category                 | IP 20 EN 60529                                                                     |
| Environmental protection                  | RMP7: RTII GZP72: RT0 EN 61810-1                                                   |
| Relative humidity                         | 5...85%                                                                            |
| Shock resistance                          | 98 m/s <sup>2</sup> 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.

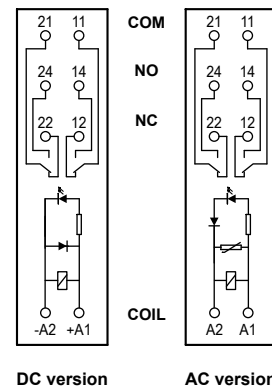
\*The cULus certification covers the certifications of the interface kit components, i.e. socket and relay.

# PI72P with socket Push-in GZP72 interface relays with Push-in terminals

## Dimensions



## Connection diagrams (Push-in terminals side view)

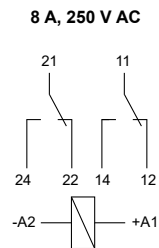


## Mounting

Relays **PI72P with socket GZP72** are designed for direct mounting on 35 mm rail mount acc. to EN 60715 or on panel mounting with one M3 screw. **Connections:** max. cross section of the cables: 2 x 1,5 mm<sup>2</sup> (ferrules without insulation), 2 x 1 mm<sup>2</sup> (ferrules with insulation), stripping length: 8...10 mm. Description plates should be ordered separately.



## Connection of GZP72 socket



## Miniature relays RMP7

electromagnetic relays  
with faston terminals

NEW



# PI72P with socket Push-in GZP72

## interface relays with Push-in terminals

**Coil data - DC voltage version**

**Table 1**

| Coil code    | Rated voltage<br>V DC | Coil resistance<br>at 20 °C<br>Ω | Acceptable<br>resistance | Coil operating range<br>V DC |                 |
|--------------|-----------------------|----------------------------------|--------------------------|------------------------------|-----------------|
|              |                       |                                  |                          | min. (at 20 °C)              | max. (at 20 °C) |
| 012DC        | 12                    | 270                              | ± 10%                    | 9,6                          | 13,2            |
| <b>024DC</b> | <b>24</b>             | <b>1 100</b>                     | <b>± 10%</b>             | <b>19,2</b>                  | <b>26,4</b>     |
| 110DC        | 110                   | 22 800                           | ± 10%                    | 88,0                         | 121,0           |

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

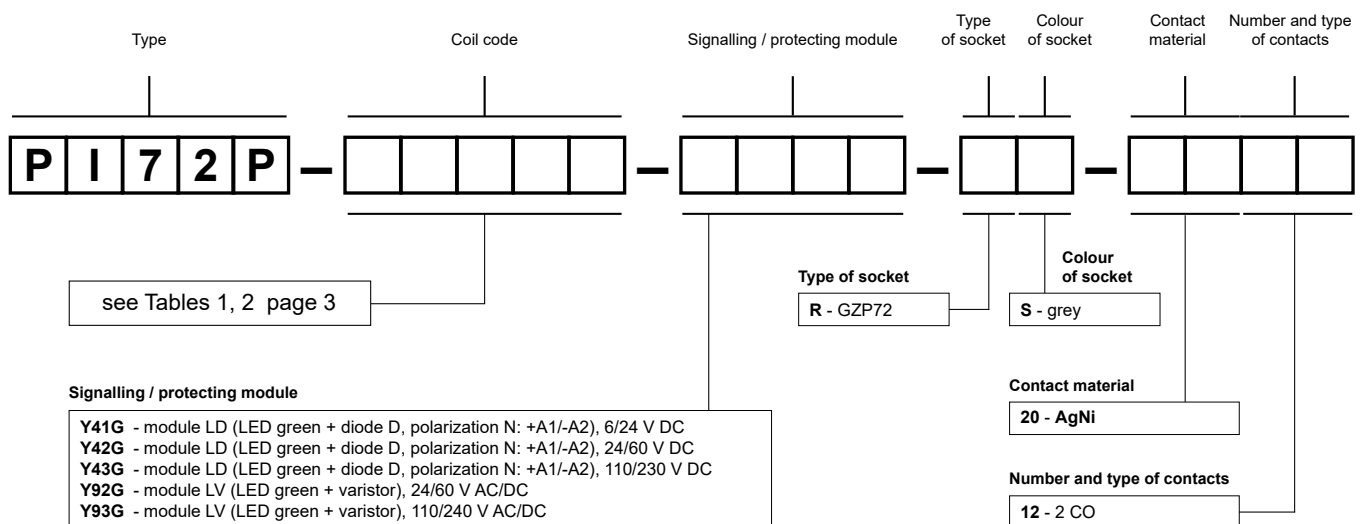
**Coil data - AC 50 Hz voltage version**

**Table 2**

| Coil code    | Rated voltage<br>V AC | Coil resistance<br>at 20 °C<br>Ω | Acceptable<br>resistance | Coil operating range<br>V AC 50 Hz |                 |
|--------------|-----------------------|----------------------------------|--------------------------|------------------------------------|-----------------|
|              |                       |                                  |                          | min. (at 20 °C)                    | max. (at 20 °C) |
| <b>024AC</b> | <b>24</b>             | <b>240</b>                       | <b>± 10%</b>             | <b>19,2</b>                        | <b>26,4</b>     |
| 110AC        | 110                   | 6 300                            | ± 10%                    | 88,0                               | 121,0           |
| <b>230AC</b> | <b>230</b>            | <b>23 000</b>                    | <b>± 10%</b>             | <b>184,0</b>                       | <b>253,0</b>    |

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

### Ordering codes



Examples of ordering codes:

**PI72P-024DC-Y42G-RS-2012**

interface relay **PI72P** consists of: relay **RMP7** (two changeover contacts, contact material AgNi, coil voltage 24 V DC), socket **GZP72** (grey, Push-in terminals), signalling / protecting module **Y42G** (version LD), retainer / retractor clip (grey, plastic)

**PI72P-230AC-Y93G-RS-2012**

interface relay **PI72P** consists of: relay **RMP7** (two changeover contacts, contact material AgNi, coil voltage 230 V AC 50 Hz), socket **GZP72** (grey, Push-in terminals), signalling / protecting module **Y93G** (version LV), retainer / retractor clip (grey, plastic)

### 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.