

RPI-1ZI-U24A

installation relays



RPI-1ZI-U24A



- **Installation relays - electromagnetic**
- **Resistance to inrush current 120 A (20 ms)**
- Cadmium - free contacts 1 NO
- AC/DC and AC input voltages
- Cover - modular, width 17,5 mm
- Direct mounting on 35 mm rail mount acc. to EN 60715
- Recognitions, certifications, directives: RoHS,

- **Switching lighting circuits**, in cooperation with control timers, switches, control switches
- Wide range of application in module apparatus distribution stations, in particular for **switching circuits of high inrush current**

Output circuit - contact data

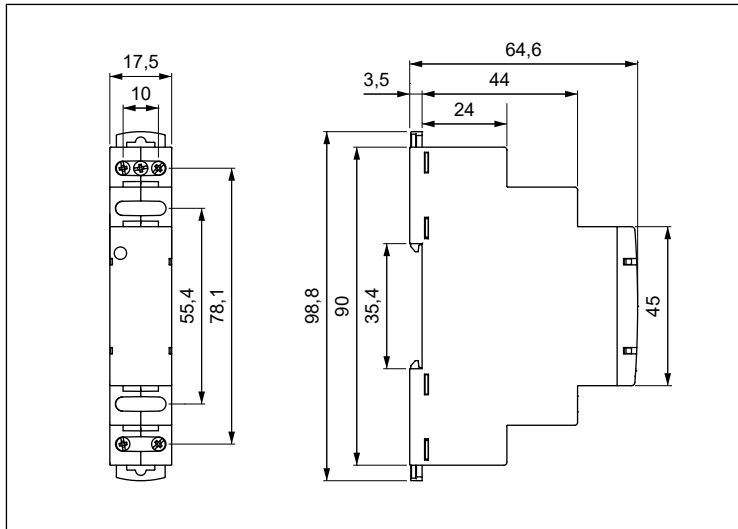
| | | | |
|---|--|---|---|
| Number and type of contacts | | 1 NO | |
| Contact material | | AgSnO₂ | |
| Max. switching voltage | | 300 V AC / 300 V DC | |
| Min. switching voltage | | 10 V | |
| Rated load | AC1 DC1 | 16 A / 250 V AC 16 A / 24 V DC | |
| Min. switching current | | 10 mA | |
| Max. inrush current | | 120 A 20 ms | |
| Rated current | | 16 A | |
| Max. breaking capacity | • AC1 • AC15 • AC3 • DC1 | 4 000 VA (16 A / 250 V AC) 720 VA (3 A / 240 V AC) 650 W 0,35 A / 230 V DC; 16 A / 24 V DC | |
| | | 800 W | |
| | | 2 500 W | |
| | | 500 W | |
| Min. breaking capacity | | 1 W | |
| Contact resistance | | ≤ 100 mΩ | |
| Max. operating frequency | | 600 cycles/hour | |
| • at rated load | AC1 | 72 000 cycles/hour | |
| • no load | | | |
| Input circuit | | | |
| Rated voltage | 50 Hz AC AC: 50 Hz AC/DC | 230 V 24 V | terminals A1, A3 terminals (+)A1, (-)A2 |
| Must release voltage | | AC: ≥ 0,15 U _n | DC: ≥ 0,05 U _n |
| Operating range of supply voltage | | 0,85...1,1 U _n | |
| Rated power consumption | | ≤ 1 W | 24 V AC/DC, AC: 50 Hz |
| | | ≤ 1,5 W / 5,5 VA | 230 V AC, 50 Hz |
| Range of supply frequency | AC | 48...63 Hz | |
| Insulation according to EN 60664-1 | | | |
| Insulation rated voltage | | 250 V AC | |
| Rated surge voltage | | 4 000 V 1,2 / 50 μs | |
| Overvoltage category | | III | |
| Insulation pollution degree | | 2 | |
| Flammability class | | cover: V-0 | front panel: V-2 UL 94 |
| Dielectric strength | • input - output • contact clearance | 4 000 V AC 1 000 V AC | type of insulation: basic type of clearance: micro-disconnection |
| General data | | | |
| Operating / release time (typical values) | | 15 ms / 20 ms | |
| Electrical life | • resistive AC1 | 0,5 x 10 ⁵ | 16 A, 250 V AC |
| Mechanical life (cycles) | | 10 ⁷ | |
| Dimensions (L x W x H) | | 90 x 17,5 x 64,6 mm | |
| Weight | | 68 g | |
| Ambient temperature | • storage (non-condensation and/or icing) | -40...+70 °C | |
| | • operating | -20...+50 °C | |
| Cover protection category | | IP 20 | EN 60529 |
| Relative humidity | | up to 85% | |
| Shock resistance | | 15 g | |
| Vibration resistance | (NO) | 9 g 10...150 Hz | |

The data in bold type relate to the standard versions of the relays. Length with 35 mm rail catches: 98,8 mm.

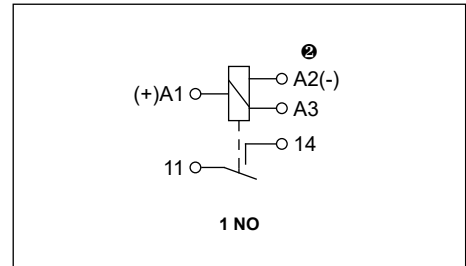
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Dimensions



Connection diagram



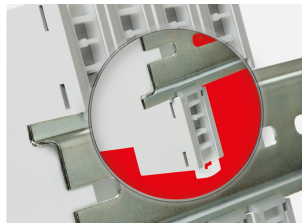
⊗ Selection of relays supply voltage:
24 V AC/DC - wires connection to the terminals A1-A2;
230 V AC - to the terminals A1-A3.

Mounting

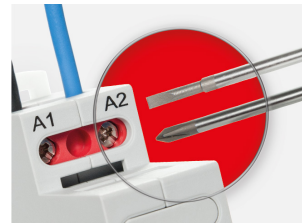
Relays **RPI-1ZI-U24A** are designed for direct mounting on 35 mm rail mount acc. to EN 60715. Operational position - any. **Connections:** max. cross section of the cables: 1 x 2,5 mm² (1 x 14 AWG), stripping length: 6,5 mm, max. tightening moment for the terminal: 0,5 Nm.



Green LED:
signalling the operation status of the relay (is illuminated permanently - correct supply).

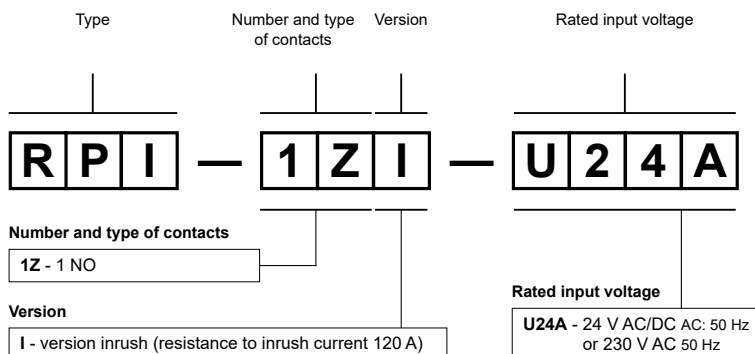


Two catches:
easy mounting on 35 mm rail, firm hold (top and bottom).



Mounting wires in clamps:
universal screw (cross-recessed or slotted head).

Ordering codes



Example of ordering codes:

RPI-1ZI-U24A

relay **RPI-1ZI-U24A**, cover - modular, width 17,5 mm, one normally open contact, version inrush, contact material AgSnO₂, rated input voltage 24 V AC/DC AC: 50 Hz or 230 V AC 50 Hz ⊗

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.