

Output circuit - contact data

| Number and type of contacts |  |
| :---: | :---: |
| Contact material |  |
| Max. switching voltage |  |
| Rated load | AC1 |
|  | DC1 |
| Max. inrush current |  |
| Rated current |  |
| Max. breaking capacity | AC1 |
| Min. breaking capacity |  |
| Contact resistance |  |
| Max. operating frequency | - at rated load AC1 <br> - no load |
| Input circuit - coil data |  |
| Rated voltage | $50 / 60 \mathrm{~Hz} \mathrm{AC}$ |
|  | AC: $50 / 60 \mathrm{~Hz} \mathrm{AC/DC}$ |
| Must release voltage |  |
| Operating range of supply voltage |  |
| Rated power consumption |  |
| Control contact S ${ }_{\text {( }}$ | - load |



General data
Operating / release time (typical values)

| Electrical life | •resistive AC1 |
| :--- | :--- |
| Mechanical life (cycles) |  |
| Operation cycle |  |
| Dimensions $(\mathrm{L} \times \mathrm{W} \times \mathrm{H})$ |  |
| Weight |  |
| Ambient temperature |  |
| (non-condensation and/or icing) | • storage |
| Cover protection category |  |
| Relative humidity |  |
| Shock / vibration resistance |  |
| Function data |  |
| Functions |  |
| LED indicator |  |

- Bistable - impulse relays type "ON-OFF", single-function without memory
- Cadmium - free contacts $2 \mathrm{NO} \cdot \mathrm{AC}$ and AC/DC input voltages
- Cover - modular, width $17,5 \mathrm{~mm}$
- Direct mounting on 35 mm rail mount acc. to EN 60715
- Applications: in cooperation with control switches and buttons ©; electric systems; switchgears of modular equipment
- Compliance with standard EN 61810
- Recognitions, certifications, directives: RoHS, EMC (2) ( $\in$ EH[

2 NO
$\mathrm{AgSnO}_{2}$
300 V AC / 300 V DC
8 A / 250 V AC
$8 \mathrm{~A} / 24 \mathrm{~V}$ DC
15 A
8 A
2000 VA
$1 \mathrm{~W} 10 \mathrm{~V}, 10 \mathrm{~mA}$
$\leq 100 \mathrm{~m} \Omega$
600 cycles/hour
3600 cycles/hour

| 230 V | terminals A1, A2 |
| :---: | :---: |
| 24 V | terminals (-/+)A1, (+/-)A2 |
| $\mathrm{AC}: \geq 0,15 \mathrm{Un}^{\text {n }}$ | DC: $\geq 0,05 \mathrm{Un}_{n}$ |
| 0,85...1,15 Un | see Tables 1, 2 |
| <0,6 W | $230 \mathrm{VAC}, 50 / 60 \mathrm{~Hz}$ |
| $\leq 0,9 \mathrm{~W}$ | $24 \mathrm{~V} \mathrm{AC/DC} ,50 / 60 \mathrm{~Hz}$ |
| $\Sigma \mathrm{I}<5 \mathrm{~mA}$ |  |
| $0,85 U_{n}$ |  |

250 V AC
4000 V $1,2 / 50 \mu \mathrm{~s}$
III
2
V-0 for modular cover, UL 9
4000 V AC type of insulation: basic
1000 V AC type of clearance: micro-disconnection
2500 V AC type of insulation: basic
$60 \mathrm{~ms} / 60 \mathrm{~ms}$
$0,5 \times 10^{5} \quad 8 \mathrm{~A}, 250 \mathrm{VAC}$ (9)
$10^{7}$
1:1
$90 \ominus \times 17,5 \times 64,6 \mathrm{~mm}$
69 g
$-40 . .+70^{\circ} \mathrm{C}$
$-20 \ldots+55^{\circ} \mathrm{C}$
IP 20 EN 60529
up to $85 \%$
$15 \mathrm{~g} / 0,35 \mathrm{~mm}$ DA $10 . . .55 \mathrm{~Hz}$

## SET/RESET (RESET)

green LED U ON - indication of supply voltage $U$ yellow LED R ON/OFF - output relay status
(1) Control contact S provides control of switching ON/OFF of receivers (lighting or other devices) from a few different points, with the use of connected in parallel momentary (doorbell) switches or lit-up buttons ( $\Sigma 1<5 \mathrm{~mA}$ ). (2) EMC tests (electromagnetic compatibility): EN 55011, EN 61000-4-2/3/4/5/6/11. (3 Where the control signal is recognizable. (4) Continuous voltage applied between A1, A2, activated with the control contact S . $\boldsymbol{5}$ Length with 35 mm rail catches: $98,8 \mathrm{~mm}$.

## Functions

SET/RESET (RESET) - Switching ON and OFF, controlled by pulses on the contact $S$.


After the supply voltage has been applied, the output relay R remains switched off.
When a pulse occurs on the control input S , the output relay R is activated (SET). This status lasts until another control pulse occurs - then, the output relay $R$ is switched off (RESET).
Further pulses which will occur on the control input $S$ will change the $R$ contact status into an opposite one.
Switching the supply off will cause switching the output relay R off. Switching on the supply again and applying a control pulse to the $S$ input will switch the $R$ relay on. Further control pulses which will occur on the control input $S$ will change the $R$ contact status into an opposite one.

## Additional functions

LEDs: green U , yellow R - are lit permanently.
Triggering: the relay is triggered by connecting the contact S to the A 1 terminal, from connected in parallel control switches / buttons. For DC supply, the positive pole may be connected to the A1 or A2 terminal.

## Supply:

- RPB-2Z-A230: the relay may be supplied with AC voltage $50 / 60 \mathrm{~Hz}$ of 195,5...264,5 V,
- RPB-2Z-U24: the relay may be supplied with DC voltage or AC voltage $50 / 60 \mathrm{~Hz}$ of $20,4 \ldots 27,6 \mathrm{~V}$.
$\mathbf{U}$ - supply voltage; $\mathbf{R}$ - output state of the relay; $\mathbf{t}$ - time axis


## Dimensions



Front panel description


## Connection diagrams



Note: the indicated polarization of the supply refers only to the relays RPB-2Z-U24.
© If too many lit-up buttons are connected, the lighting circuits can be switched on spontaneously or the lights can be switched on permanently.
bistable - impulse relays

## Mounting

Relays RPB-2Z-... are designed for direct mounting on 35 mm rail mount acc. to EN 60715. Operational position - any. Connections: max. cross section of the cables: $1 \times 2,5 \mathrm{~mm}^{2}(1 \times 14$ AWG), stripping length: $6,5 \mathrm{~mm}$, max. tightening moment for the terminal: $0,5 \mathrm{Nm}$.


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


## Mounting wires

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

Coil data - AC $50 / 60 \mathrm{~Hz}$ voltage version
Table 1

| Coil code | Rated voltage <br> V AC | Coil operating range <br> V AC |  |
| :---: | :---: | :---: | :---: |
|  |  | $\min .\left(\right.$ at $\left.20^{\circ} \mathrm{C}\right)$ | $\max .\left(\right.$ at $\left.55^{\circ} \mathrm{C}\right)$ |
| A230 | 230 | 195,5 | 264,5 |

Coil data - AC/DC 50/60 Hz voltage version
Table 2

| Coil code | Rated voltage <br> V AC/DC | Coil operating range <br> V AC/DC |  |
| :---: | :---: | :---: | :---: |
|  | 24 | $\min .\left(\right.$ at $\left.20^{\circ} \mathrm{C}\right)$ | max. (at $55^{\circ} \mathrm{C}$ ) |
| U 24 | 20,4 | 27,6 |  |

## Ordering codes



Examples of ordering codes:
RPB-2Z-A230
bistable - impulse relay RPB-2Z-..., single-function (relay perform function SET/RESET (RESET)), cover - modular, width $17,5 \mathrm{~mm}$, two normally open contacts, contact material AgSnO2, coil voltage 230 V AC $50 / 60 \mathrm{~Hz}$
RPB-2Z-U24 bistable - impulse relay RPB-2Z-..., single-function (relay perform function SET/RESET
(RESET)), cover - modular, width $17,5 \mathrm{~mm}$, two normally open contacts, contact material AgSnO2, coil voltage 24 V AC/DC AC: $50 / 60 \mathrm{~Hz}$

## 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

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