R3B-...-B

industrial bistable relays







- · Energy-saving single-coil bistable relays
- they do not require continuous power supply, but only one pulse to change the state (two stable states: open or closed)
- Relays with permanent magnet, designed for continuous operation*
- For plug-in sockets: on 35 mm rail mount acc. to EN 60715; on panel mounting
- DC coils, insulation class F: 155 °C
- W (mechanical indicator) standard equipment of relays
- · Recognitions, certifications, directives

s: RoHS,	ϵ	UK
----------	------------	----

• Recognitions, certifications, directives: RoHS, CE UK		
3 CO		
AgNi		
250 V / 440 V		
10 V		
8 A / 250 V AC		
3 A / 120 V 1,5 A / 240 V (B300)		
8 A / 24 V DC		
0,22 A / 120 V 0,1 A / 250 V (R300)		
1/2 HP 240 V AC, 4,9 FLA, single-phase motor 1		
0,37 kW 240 V AC, single-phase motor		
5 mA		
20 A		
8 A		
2 000 VA		
0,3 W		
5,5 ¥V ≤ 100 mΩ		
1 200 cycles/hour		
18 000 cycles/hour		
10 000 cycles/flour		
5, 6, 12 , 24 , 48, 60 V		
5, 6, 12, 24, 40, 60 V ≤ 0,8 U _n		
min.: 0,8 U _n max.: 1,1 U _n		
min.: 0,05 s max.: 100 s		
1 W		
1 VV		
0507/40		
250 V AC		
4 000 V 1,2 / 50 μs		
2		
2 500 V AC type of insulation: basic		
1 €00 V AC type of clearance: micro-disconnection		
2 500 V AC type of insulation: basic		
≥ 2,5 mm		
≥ 4 mm		
13 ms / 3 ms		
> 5 x 10 ⁴ 8 A, 250 V AC		
see Fig. 2		
> 2 x 10 ⁷		
28,6 x 21 x 35,5 mm		
35 g		
-40+85 °C		
-20+55 °C		
IP 40 EN 60529		
RTI EN 61810-1		
10 g / 5 g		
5 g 10150 Hz		

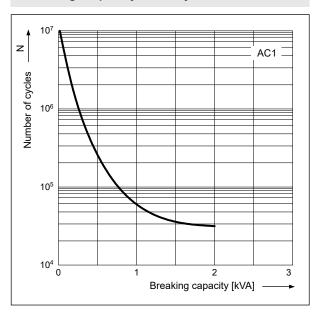
The data in bold type relate to the standard versions of the relays. *The relays are designed for continuous operation while maintaining the parameters declared in the data sheet. • • For single phase motors for 110-120 V AC do not use motors with higher FLA than given for 240 V AC.

R3B-...-B

industrial bistable relays

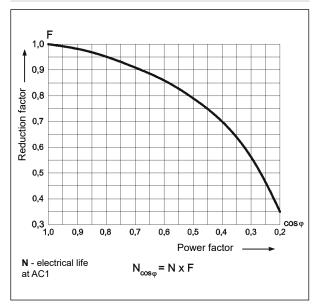
Fig. 1

Electrical life at AC resistive load. Switching frequency: 1 200 cycles/hour

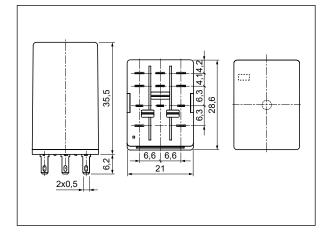


Electrical life reduction factor at AC inductive load

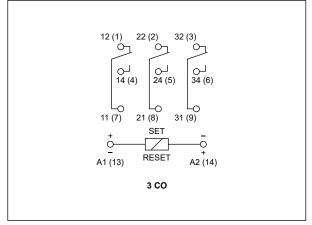
Fig. 2



Dimensions - plug-in version



Connection diagram (pin side view)



2

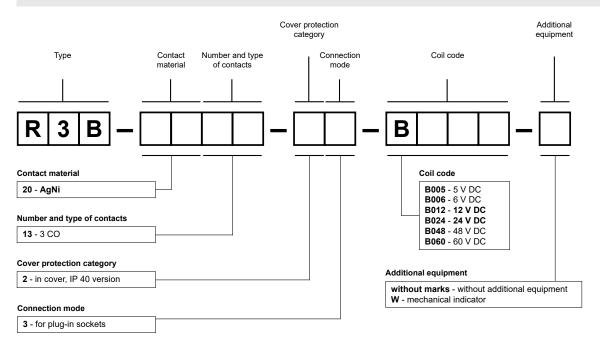
Mounting, sockets and accessories for relays

Relays R3B-...-B are offered in versions for plug-in sockets. With W equipment as standard (W - mechanical indicator).

	Accessories			
Sockets for R3BB	Retainer	Spring wire clips	Description plates	Additional
	/ retractor clips	'	<u> </u>	equipment
Screw terminals sockets, 35 mm rail mount (acc. to EN 60715) or on panel mounting (two M3 screws)				
GZT3	GZT4-0040, GZP4-0400	G4 1052	GZT4-0035	M ❷, ZGGZ4 ❸
GZM3	GZT4-0040, GZP4-0400	G4 1052	GZT4-0035	M ❷, ZGGZ4 ❸

Signalling / protecting modules type M... - see www.relpol.com.pl
Interconnection strips ZGGZ4 - see www.relpol.com.pl

Ordering codes



Example of ordering code:

R3B-2013-23-B024-W

bistable relay **R3B-...-B** with one coil, for plug-in sockets, three changeover contacts, contact material AgNi, coil voltage 24 V DC, with mechanical indicator, in cover IP 40

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.