

This is an electromagnetic, neutral, monostable reed relay for DC (direct current) with two magnetic operated contacts MKA 20101; designed to switch DC & AC electric circuits; manufactured according to GOST 16121-86 and Br0.450.003 TY.

Environmental ratings: temperate and cold climate: 2.1

Ordering data: **RGK 15 Br4.569.003-01 Br0.450.003 TY**



## Technical Parameters

Model	Coil Resistance, Ohm	Operate Voltage V (not more than)	Release Voltage V (not less than)	Rated Voltage, V
Br4.569.003	155 ± 15	3,6	1,5	5 ± 0,5; 6 ± 0,6
Br4.569.003-01	650 ± 65	7,2	1,5	12 ± 1,2
Br4.569.003-02	2400 ± 240	14,4	1,5	24 ± 2,4
Br4.569.003-03	2400 ± 240	14,4	1,5	27 <sup>+2,7</sup> <sub>-4,0</sub>

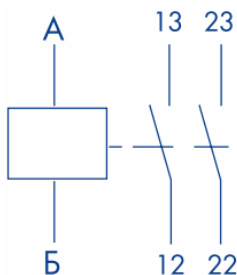
## Technical Specifications

Operate Time, ms, not more than	1,5
Release Time, ms, not more than	0,5
Contact Resistance, Ohm (at V=(6±1)V and I=(10±1)mA)	0,2
Insulation Resistance between Relay Circuits, mOhm	
at normal ambient temperature	1000
at maximal operating temperature	20
at high humidity	10
Test Voltage of AC (effective value) V :	
At normal ambient temperature:	
between contacts, between contacts and coil	500
between terminals of each contact	200
at high humidity:	
between contacts, between contacts and coil	300
between terminals of each contact	200
At low air pressure:	
between contacts, between contacts and coil, between terminals of each contact	180
Weight, g, not more than	8,5

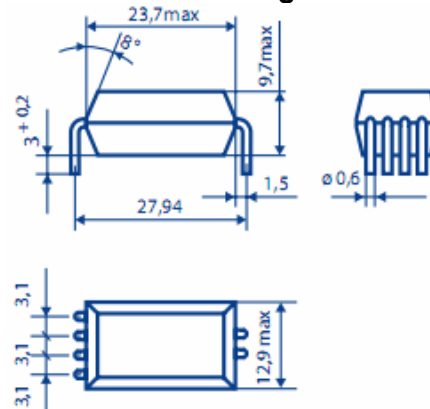
## Switching Modes

Switching Ranges		Current Type	Type of Load	Switching Frequency, Hz	Number of Switching Cycles	
I, A	U, B				$\Sigma$	t=85°C
$0,5 \cdot 10^{-5}$ - $1 \cdot 10^{-2}$	0,05-30	const & var	active	100	$9 \cdot 10^7$	$1,8 \cdot 10^7$
0,01-0,01	0,05-30				$9 \cdot 10^6$	$4,5 \cdot 10^6$
01,-0,25	0,05-30				$9 \cdot 10^5$	$4,5 \cdot 10^5$
0,02-0,03	150-180				$9 \cdot 10^5$	$4,5 \cdot 10^5$
0,001-0,01	0,05-30				$9 \cdot 10^6$	$4,5 \cdot 10^6$
0,01-0,1	0,05-30	Const	inductive $\tau \leq 0,015c$	10	$10^5$	$5 \cdot 10^4$
0,1-0,2	0,05-30				$5 \cdot 10^4$	$2,5 \cdot 10^4$

### Schematic Circuit Diagram



### External and Mounting Dimensions



## Operating Conditions

Ambient Temperature, °C	from -60 to +85
Air Pressure, Pa (mm of Mercury)	$8,4 \cdot 10^4 - 3,03 \cdot 10^5$ (от 630 до 2280)
Relative Humidity at 35 °C, %	to 98
Vibration loads Over 1 to 50 Hz Over 50 to 2000 Hz	with amplitude of 1,5mm with acceleration to $200 \text{ m/sec}^2$ (20g)
Electrial (Centrifugal) Loads	to $981 \text{ m/sec}^2$ (100g)
Shock Loads: single shocks multiple shocks	9 shocks with acceleration to $1470 \text{ m/sec}^2$ (150g) 4000 shocks with acceleration to $735 \text{ m/sec}^2$ (75g) or 10000 shocks with acceleration to $343 \text{ m/sec}^2$ (35g)