

This is a low-current, electromagnetic, monostable, not polarized, reed relay with two make contacts, mounted on a hermetically sealed, magnetically operated contact KEM 2; designed to switch DC & AC electrical circuits with frequency to 10000 Hz; manufactured according to GOST 16121-86 and КЩ0.450.014 ТУ.

Environmental ratings: temperate and cold climate. Models for general industry purposes, space and defense business are also available.



Ordering data: **Relay RES43 PC4.569.200 КЩ0.450.014 ТУ**

Technical Parameters

Model	Identification and Coil Bonding Technique	Rated Voltage, V	Coil Resistance, Ohm	Operate Voltage, V, not more than	Release Voltage, V, not less than
PC4.569.201	A-Б, В-Г	$12^{+2,0}_{-1,2}$	230±34,5	5,5	1,0
	The last АГ (БВ)		460±69,0	5,5	1,0
	Parallel АВ-БГ		115±17,2	2,8	0,5
PC4.569.202	A-Б	$27±5,0$	1200±180	11,5	2,0
	В-Г	$27±3,0$	1200±180	14,0	2,5
	The last АГ (БВ)	$27^{+5,0}_{-4,0}$	2400±360	13,0	2,5
	Parallel АВ-БГ	$27^{+3,0}_{-7,0}$	600±90,0	6,5	1,2
PC4.569.203	A-Б	$10±1,0$	760±114	5,6	1,1
PC4.569.204	A-Б	$48±5,0$	7500±1500	23	3,0

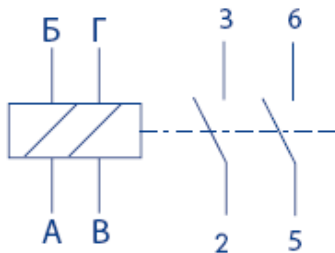
Technical Specifications

Contact Resistance, Ohm, not more than	0,2
Operate Time, ms, not more than	1,3
Insulation Resistance between Current Carrying Elements and between Current Carrying Elements and Package, mOhm, not less than:	
at normal ambient temperature	500
at maximal temperature	20
Insulation Resistance in Conditions of High Humidity, mOhm, not less :	
between contacts, between contacts and package, between contacts and coils	10
between coils, between package and coils	5
Test Voltage (effective value),V	
At Normal Ambient Temperature :	
between current carrying elements and package, between contacts, between contacts and coils	500
between coils	300
between terminals of each magnetically operated contact	200
In Conditions of High Humidity:	
between current carrying elements and package, between contacts, between contacts and coils	300
between terminals of each magnetically operated contact	200
In Conditions of Low Air Pressure :	
between current carrying elements, between current carrying elements and package	180
Weight, g, not more than	15

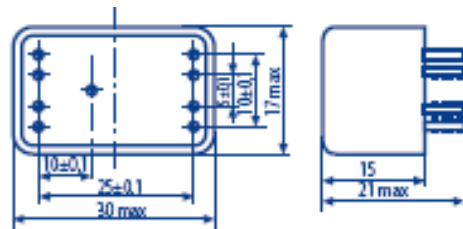
Switching Modes

Switching Range		Current Type	Type of Load	Switching Frequency, Hz	Number of Switching Cycles	
I, A	U, V				Σ	t= 85°C
$5 \cdot 10^{-6} - 10^{-3}$	0,05-30	const & var	active	100	10^8	$5 \cdot 10^6$
0,01-0,1	0,05-30				10^7	$2 \cdot 10^6$
0,1-0,25	0,05-30				10^6	$2 \cdot 10^5$
0,02-0,03	150-180				10^6	$2 \cdot 10^5$
0,001-0,01	0,05-30				10^7	$2 \cdot 10^6$
0,01-0,1	0,05-30	const	inductive $\tau \leq 7$ ms	10	10^5	$5 \cdot 10^4$
0,01-0,1	0,05-30				$5 \cdot 10^4$	$2,5 \cdot 10^4$

Schematic Circuit Diagram



Terminal Position



Operating Conditions

Ambient Temperature, °C	from minus 60 to plus 85
Air Pressure, Pa, (mm of Mercury)	$1,33 \cdot 10^{-4} \dots 2,13 \cdot 10^5$ ($10^{-6} \dots 1,6 \cdot 10^3$)
Relative Humidity at 35 °C, %	to 98
Vibration Loads : from 5 to 50Hz from 50 to 3000Hz	with amplitude of 1,5 mm with acceleration to 147 m/sec^2 (15g)
Vibration Loads : single shocks multiple shocks	9 shocks with acceleration to 1470 m/sec^2 (150g) 4000 shocks with acceleration to 735 m/sec^2 (75g) or 10000 shocks with acceleration to 343 m/sec^2 (35g)
Shock Resistance	60 shocks with acceleration to 980 m/sec^2 (100g)
Linear Loads	to 980 m/sec^2 (100g)