This is a low-current, electromagnetic, miniature, monostable, not polarized, reed relay with one change-over contact, mounted on hermetically sealed magnetically operated contact KEM3; designed to switch DC & AC electrical circuits with frequency to 10 kHz as two design types:

- RES 55A – with bottom terminals for print mount;
- RES55B – terminals sideways for three-dimensional wire;

manufactured according to PC0.456.011 ТУ.

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

Ordering data: **Relay RES55 PC4.569.600-00 PC0.456.011 ТУ**

Technical Parameters

Type	Model	Rated Voltage, V	Coil Resistance, Ohm	Operate Voltage, V, not more than	Release Voltage, V, not less than
RES 55A RES 55A-T	PC4.569.600-00	48±4,8	4400±880	24	3,5
	PC4.569.600-01	12,6±1,26	377±56,5	7,3	0,85
	PC4.569.600-02	6±0,6	95±14,2	3,25	0,35
	PC4.569.600-03	5±0,5	67±10	2,5	0,3
	PC4.569.600-04	3±0,3	35±3,5	1,72	0,2
	PC4.569.600-05	27±2,7	1880±282	14,7	1,6
	PC4.569.600-06	12,6±1,26	377±56,5	6,3	0,75
	PC4.569.600-07	6±0,6	95±14,2	2,75	0,3
	PC4.569.600-08	5±0,5	67±10	2,12	0,25
	PC4.569.600-09	3±0,3	35±3,5	1,46	0,18
	PC4.569.600-10	10±1	377±56,5	5,9	0,9
	PC4.569.600-11	5±0,5	95±14,2	2,6	0,4
	PC4.569.600-12	48±4,8	4400±880	24	3,5
	PC4.569.600-13	27±2,7	1880±282	16,2	1,8
	PC4.569.600-14	12,6±1,26	377±56,5	7,3	0,85
	PC4.569.600-15	6±0,6	95±14,2	3,25	0,35
	PC4.569.600-16	5±0,5	67±10	2,5	0,3
	PC4.569.600-17	3±0,3	35±3,5	1,72	0,2
RES 55Б RES 55B-T	PC4.569.625-00	27±2,7	1880±282	16,2	1,8
	PC4.569.625-01	12,6±1,26	377±56,5	7,3	0,85
	PC4.569.625-02	6±0,6	95±14,2	3,25	0,35
	PC4.569.625-03	5±0,5	67±10	2,5	0,3
	PC4.569.625-04	3±0,3	35±3,5	1,72	0,2
	PC4.569.625-05	27±2,7	1880±282	14,7	1,6
	PC4.569.625-06	12,6±1,26	377±56,5	6,3	0,75
	PC4.569.625-07	6±0,6	95±14,2	2,75	0,3
	PC4.569.625-08	5±0,5	67±10	2,12	0,25
	PC4.569.625-09	3±0,3	35±3,5	1,46	0,18
	PC4.569.625-10	27±2,7	1880±282	16,2	1,8
	PC4.569.625-11	12,6±1,26	377±56,5	7,3	0,85
	PC4.569.625-12	6±0,6	95±14,2	3,25	0,35
	PC4.569.625-13	5±0,5	67±10	2,5	0,3
	PC4.569.625-14	3±0,3	35±3,5	1,72	0,2

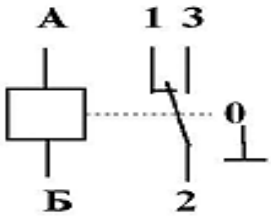
Technical Specifications

Operate Time, ms, not more than	1,5
Release Time, ms, not more than	2,3
Insulation Resistance between Current Conductors, between Current Conductors and Shield, mOhm, not less than: at normal ambient temperature; at maximal temperature;	 500 200
Insulation Resistance in Conditions of High Humidity, mOhm, not less than : between contacts insulation resistance after mold fungi and salt fog attack (for RES 55A-T and RES 55B-T), mOhm, not less than	5 10 5
Test Voltage (effective value) between Current Conductors (except contacts), between Current Conductors and Shield, V : at normal ambient temperature; in conditions of high humidity; at low air pressure ; after mold& fungi and salt fog testing (for RES 55AT and RES 55BT)	 500 200 200 200
Transient Resistance of the Contact Circuit, Ohm, not more PC4.569.600-00 – PC4.569.600-12, PC4.569.625-00 – PC4.569.625-09 PC4.569.600-13 – PC4.569.600-17, PC4.569.625-10 – PC4.569.625-14	 0,18 0,5
Weight, g, not more than	6

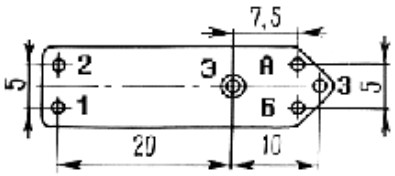
Switching Modes

Switching Power, VA	Switching Range		Current Type	Type of Load	Switching Frequency, Hz	Number of Switching Cycles	
	I,A	U, V				∑	t= 85°C
-	$5 \cdot 10^{-6}$-0,01		I,A	active	50	$2 \cdot 10^6$	10^6
7,5	0,01-0,06	6-127				10^6	$5 \cdot 10^6$
	0,01-0,25	6-36	0,01-0,15			10^6	$5 \cdot 10^6$
	0,25 - 0,5		var			$5 \cdot 10^6$	$2,5 \cdot 10^6$
15	0,01-0,15		var		10	10^4	$5 \cdot 10^3$
	0,01-0,1		var			10^3	$5 \cdot 10^2$
-	0,01-0,15		const	active; in-duct. $\tau \leq 7$ ms	50	10^6	$5 \cdot 10^5$
	0,01-0,1		var	active			
For models PC4.569.600-05 - PC4.569.600-12 and PC4.569.625-05 - PC4.569.625-09							
-	0,01-0,5	6 - 36	var	active	50	$7,5 \cdot 10^5$	$3,75 \cdot 10^5$
For models PC4.569.600-13 - PC4.569.600-17 and PC4.569.625-10 - PC4.569.625-14							
7,5	0,01-0,25	6 - 36	var	active	50	10^6	$5 \cdot 10^5$
15	0,25-0,5				10	10^4	$5 \cdot 10^3$
30	0,5-1,0		const & var		1	10^3	$5 \cdot 10^2$

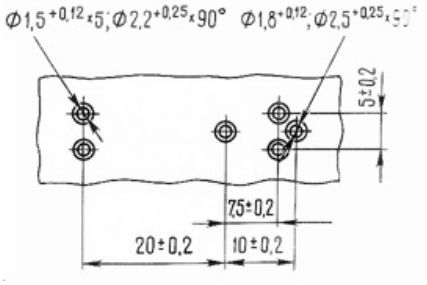
Schematic Circuit Diagram



Terminal Position



Wafer Spotting for RES55A – Mounting



Operating Conditions

Ambient Temperature, °C	from minus 60 to plus 85
Air Pressure, Pa (mm of Mercury)	from 6,66 to 1066 (from 5 to 800)
Relative Humidity at 35 °C, %	to 98
Vibration Loads: from 5 to 50Hz from 50 to 3000Hz	 with amplitude of 2,5 mm with acceleration to 245 m/sec^2 (25g)
Shock 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	with acceleration to 735 m/sec^2 (75g)
Linear Loads	to 490 m/sec^2 (50g)