

This is a low-current, electromagnetic, super-sensitive, miniature, monostable, not hermetically sealed SIL reed relay for DC with one make contact, with lower wattage and high reliability, and with an inbuilt diode for damping of Faraday voltage; designed to switch DC & AC electrical circuits with frequency to 10000 Hz; manufactured according to GOST 16121-86 and ИДЯУ.647613.014 ТУ.



Environmental ratings: temperate, cold and humid climate.

Ordering data: **Relay RGK 36 ИДЯУ. 647613. 014-01 ИДЯУ. 647613. 014 ТУ**

Technical Parameters

Type	Model	Without a Diode	With a Diode	Rated Voltage, V	Operate Voltage, V (not more than)	Release Voltage, V (not less than)	Coil Resistance, Ohm
1	2	3	4	5	6	7	8
RGK 36	ИДЯУ.647613.014	+	-	$5^{+1,6}_{-0,5}, 6^{+0,6}_{-1,5}$	3,3	0,6	1400 ± 140
	ИДЯУ.647613.014-01	+	-	$5 \pm 0,5$	3,3	0,7	1900 ± 190
	ИДЯУ.647613.014-02	+	-	$24^{+5,7}_{-2,4}$ $27^{+2,7}_{-5,4}$	15,0	2,6	3200 ± 320
	ИДЯУ.647613.014-03	+	-	$12^{+4,5}_{-1,2}$ $15^{+1,5}_{-4,2}$	7,6	1,2	3200 ± 320
	ИДЯУ.647613.014-04	+	-	$24^{+5,7}_{-2,4}$ $27^{+2,7}_{-5,7}$	15,0	2,6	6750 ± 675
	ИДЯУ.647613.014-05	-	+	$5^{+1,6}_{-0,5}, 6^{+0,6}_{-1,5}$	3,3	0,6	1400 ± 140
	ИДЯУ.647613.014-06	-	+	$5 \pm 0,5$	3,3	0,7	1900 ± 190
	ИДЯУ.647613.014-07	-	+	$24^{+5,7}_{-2,4}$ $27^{+2,7}_{-5,4}$	15,0	2,6	3200 ± 320
	ИДЯУ.647613.014-08	-	+	$12^{+4,5}_{-1,2}$ $15^{+1,5}_{-4,2}$	7,6	1,2	3200 ± 320
	ИДЯУ.647613.014-09	-	+	$24^{+5,7}_{-2,4}$ $27^{+2,7}_{-5,7}$	15,0	2,6	6750 ± 675

1	2	3	4	5	6	7	8
RGK 36B	ИДЯУ.647613.014-10	+	-	$5^{+1,6}_{-0,5}, 6^{+0,6}_{-1,5}$	3,3	0,6	1400±140
	ИДЯУ.647613.014-11	+	-	5±0,5	3,3	0,7	1900±190
	ИДЯУ.647613.014-12	+	-	$24^{+5,7}_{-2,4}$ $27^{+2,7}_{-5,4}$	15,0	2,6	3200±320
	ИДЯУ.647613.014-13	+	-	$12^{+4,5}_{-1,2}$, $15^{+1,5}_{-4,2}$	7,6	1,2	3200±320
	ИДЯУ.647613.014-14	+	-	$24^{+5,7}_{-2,4}$, $27^{+2,7}_{-5,7}$	15,0	2,6	6750±675
	ИДЯУ.647613.014-15	-	+	$5^{+1,6}_{-0,5}, 6^{+0,6}_{-1,5}$	3,3	0,6	1400±140
	ИДЯУ.647613.014-16	-	+	5±0,5	3,3	0,7	1900±190
	ИДЯУ.647613.014-17	-	+	$24^{+5,7}_{-2,4}$ $27^{+2,7}_{-5,4}$	15,0	2,6	3200±320
	ИДЯУ.647613.014-18	-	+	$12^{+4,5}_{-1,2}$, $15^{+1,5}_{-4,2}$	7,6	1,2	3200±320
	ИДЯУ.647613.014-19	-	+	$24^{+5,7}_{-2,4}$, $27^{+2,7}_{-5,7}$	15,0	2,6	6750±675

Technical Specifications

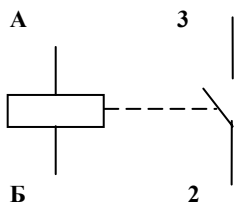
Contact Resistance, Ohm, (not more than)	0,15	
Operate Time, ms, not more than	1,0	
Release Time, ms, not more than	0,5	
Insulation Resistance between Relay Circuits, mOhm, not less than		
at normal ambient temperature	1000	
at maximal operating temperature	100	
in conditions of high humidity, silver thaw, dew	10	
in conditions of salt fog, mold & fungi, static dust (climate model B)	5	
Relay's Insulation Strength (effective value), V	Between relay circuits	Between contacts
at normal ambient temperature	500	180
in conditions of high humidity, silver thaw, dew	300	110
at low air pressure	150	110
in conditions of salt fog, mold & fungi, static dust	200	110
Weight, g, not more than	2,6	

Switching Modes

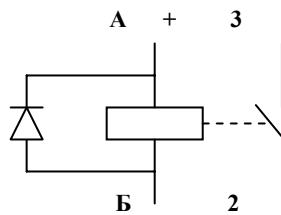
Switching Range		Current Type	Type of Load	Switching Frequency, Hz	Number of Switching Cycles	
I, A	U, V				I, A	U, V
$5 \cdot 10^{-9}$ - 0,01	10^{-5} - 6	const & var	Active	100	10^8	$5 \cdot 10^7$
0,01 - 0,05	6-100			50	10^7	$5 \cdot 10^6$
0,05 - 0,1	6-100			20	$5 \cdot 10^6$	$2,5 \cdot 10^6$
0,1 - 0,5	6-20			10	$5 \cdot 10^6$	$2,5 \cdot 10^6$

Switching Circuit Diagram

-00...-04, -10,...-14

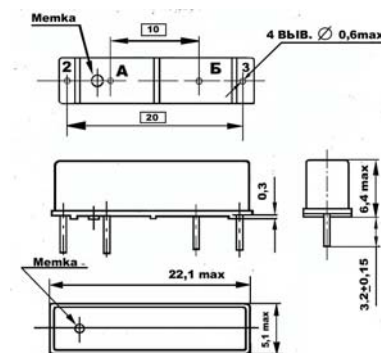


-05,...-09,-15,...-19



Mounting Dimensions

All models



Operating Conditions

Ambient Temperature, °C	from minus 50 to plus 70
Relative Humidity at Temperature not more than 35°C	to 98%
Air Pressure, Pa,(mm of Mercury)	$6,7 \cdot 10^2 \dots 3,03 \cdot 10^4$ (5...2280)
Sinusoidal Vibration : over 1 to 50Hz over 50 to 2000Hz	with motion amplitude of 1,5mm with acceleration amplitude of 200 m/sec ² (20g)
Mechanical Shocks: single shock duration of (0,1-2 ms) multiple shock duration of (2-10 ms)	9 shocks with acceleration to 500 m/sec ² (50g) 10000 shocks with acceleration to 400 m/sec ² (40g)