

This is a low-current, electromagnetic, not polarized, monostable, not hermetically sealed reed relay for DC with two make contacts; designed to switch DC & AC electrical circuits with frequency to 10000Hz; manufactured according to GOST 16121-86 and ИДЯУ.647613.012 ТУ.

Environmental ratings: temperate, cold and humid climate.

Model types:

- print board mount with through-hole technology RGK 35;
- surface mount technology with incurved terminals RGK 35-1;
- surface mount technology with out-curved terminals РГК 35-2;



Ordering data: **Relay RGK 35 ИДЯУ.647613.012-01 ИДЯУ.647613.012 ТУ**

Technical Parameters

Type	Model	With a Diode	Shielded	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 35	ИДЯУ.647613.012-00	-	-	6 ± 0,6	3,8	0,6	220 ± 33
	ИДЯУ.647613.012-01	-	-	12 ^{+2,4} _{-1,2}	8,0	1,3	600 ± 90
	ИДЯУ.647613.012-02	-	-	15 ± 1,5	9,6	1,5	1200 ± 180
	ИДЯУ.647613.012-03	-	-	24 ^{+4,8} _{-2,4}	16,0	2,6	3200 ± 480
	ИДЯУ.647613.012-05	+	-	6 ± 0,6	3,8	0,6	220 ± 33
	ИДЯУ.647613.012-06	+	-	12 ^{+2,4} _{-1,2}	8,0	1,3	600 ± 90
	ИДЯУ.647613.012-07	+	-	15 ± 1,5	9,6	1,5	1200 ± 180
	ИДЯУ.647613.012-08	+	-	24 ^{+4,8} _{-2,4}	16,0	2,6	3200 ± 480
	ИДЯУ.647613.012-10	-	+	6 ± 0,6	3,8	0,6	220 ± 33
	ИДЯУ.647613.012-11	-	+	12 ^{+2,4} _{-1,2}	8,0	1,3	600 ± 90
	ИДЯУ.647613.012-12	-	+	15 ± 1,5	9,6	1,5	1200 ± 180
	ИДЯУ.647613.012-13	-	+	24 ^{+4,8} _{-2,4}	16,0	2,6	3200 ± 480
	ИДЯУ.647613.012-15	+	+	6 ± 0,6	3,8	0,6	220 ± 33
	ИДЯУ.647613.012-16	+	+	12 ^{+2,4} _{-1,2}	8,0	1,3	600 ± 90
	ИДЯУ.647613.012-17	+	+	15 ± 1,5	9,6	1,5	1200 ± 180
ИДЯУ.647613.012-18	+	+	24 ^{+4,8} _{-2,4}	16,0	2,6		

1	2	3	4	5	6	7	8
RGK 35B	ИДЯУ.647613.012-20	-	-	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.012-21	-	-	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.012-22	-	-	$15 \pm 1,5$	9,6	1,5	1200 ± 180
	ИДЯУ.647613.012-23	-	-	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480
	ИДЯУ.647613.012-25	+	-	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.012-26	+	-	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.012-27	+	-	$15 \pm 1,5$	9,6	1,5	1200 ± 180
	ИДЯУ.647613.012-28	+	-	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480
	ИДЯУ.647613.012-30	-	+	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.012-31	-	+	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.012-32	-	+	$15 \pm 1,5$	9,6	1,5	1200 ± 180
	ИДЯУ.647613.012-33	-	+	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480
	ИДЯУ.647613.012-35	+	+	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.012-36	+	+	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.012-37	+	+	$15 \pm 1,5$	9,6	1,5	1200 ± 180
ИДЯУ.647613.012-38	+	+	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480	
RGK 35-1	ИДЯУ.647613.046-00	-	-	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.046-01	-	-	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.046-02	-	-	$15 \pm 1,5$	9,6	1,5	1200 ± 180
	ИДЯУ.647613.046-03	-	-	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480
	ИДЯУ.647613.046-05	+	-	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.046-06	+	-	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.046-07	+	-	$15 \pm 1,5$	9,6	1,5	1200 ± 180
	ИДЯУ.647613.046-08	+	-	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480
	ИДЯУ.647613.046-10	-	+	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.046-11	-	+	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.046-12	-	+	$15 \pm 1,5$	9,6	1,5	1200 ± 180
	ИДЯУ.647613.046-13	-	+	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480
	ИДЯУ.647613.046-15	+	+	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.046-16	+	+	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.046-17	+	+	$15 \pm 1,5$	9,6	1,5	1200 ± 180

1	2	3	4	5	6	7	8
	ИДЯУ.647613.046-18	+	+	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480
RGK 35-1B	ИДЯУ.647613.046-20	-	-	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.046-21	-	-	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.046-22	-	-	$15 \pm 1,5$	9,6	1,5	1200 ± 180
	ИДЯУ.647613.046-23	-	-	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480
RGK 35-1B	ИДЯУ.647613.046-25	+	-	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.046-26	+	-	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.046-27	+	-	$15 \pm 1,5$	9,6	1,5	1200 ± 180
	ИДЯУ.647613.046-28	+	-	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480
	ИДЯУ.647613.046-30	-	+	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.046-31	-	+	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.046-32	-	+	$15 \pm 1,5$	9,6	1,5	1200 ± 180
	ИДЯУ.647613.046-33	-	+	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480
	ИДЯУ.647613.046-35	+	+	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.046-36	+	+	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.046-37	+	+	$15 \pm 1,5$	9,6	1,5	1200 ± 180
	ИДЯУ.647613.046-38	+	+	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480
RGK 35-2	ИДЯУ.647613.047-00	-	-	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.047-01	-	-	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.047-02	-	-	$15 \pm 1,5$	9,6	1,5	1200 ± 180
	ИДЯУ.647613.047-03	-	-	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480
	ИДЯУ.647613.047-05	+	-	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.047-06	+	-	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.047-07	+	-	$15 \pm 1,5$	9,6	1,5	1200 ± 180
	ИДЯУ.647613.047-08	+	-	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480
	ИДЯУ.647613.047-10	-	+	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.047-11	-	+	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90
	ИДЯУ.647613.047-12	-	+	$15 \pm 1,5$	9,6	1,5	1200 ± 180
	ИДЯУ.647613.047-13	-	+	$24^{+4,8}_{-2,4}$	16,0	2,6	3200 ± 480
	ИДЯУ.647613.047-15	+	+	$6 \pm 0,6$	3,8	0,6	220 ± 33
	ИДЯУ.647613.047-16	+	+	$12^{+2,4}_{-1,2}$	8,0	1,3	600 ± 90

1	2	3	4	5	6	7	8
	ИДЯУ.647613.047-17	+	+	15±1,5	9,6	1,5	1200±180
	ИДЯУ.647613.047-18	+	+	24 ^{+4,8} _{-2,4}	16,0	2,6	3200±480
RGK 35-2B	ИДЯУ.647613.047-20	-	-	6±0,6	3,8	0,6	220±33
	ИДЯУ.647613.047-21	-	-	12 ^{+2,4} _{-1,2}	8,0	1,3	600±90
	ИДЯУ.647613.047-22	-	-	15±1,5	9,6	1,5	1200±180
	ИДЯУ.647613.047-23	-	-	24 ^{+4,8} _{-2,4}	16,0	2,6	3200±480
	ИДЯУ.647613.047-25	+	-	6±0,6	3,8	0,6	220±33
	ИДЯУ.647613.047-26	+	-	12 ^{+2,4} _{-1,2}	8,0	1,3	600±90
	ИДЯУ.647613.047-27	+	-	15±1,5	9,6	1,5	1200±180
	ИДЯУ.647613.047-28	+	-	24 ^{+4,8} _{-2,4}	16,0	2,6	3200±480
RGK 35-2B	ИДЯУ.647613.047-30	-	+	6±0,6	3,8	0,6	220±33
	ИДЯУ.647613.047-31	-	+	12 ^{+2,4} _{-1,2}	8,0	1,3	600±90
	ИДЯУ.647613.047-32	-	+	15±1,5	9,6	1,5	1200±180
	ИДЯУ.647613.047-33	-	+	24 ^{+4,8} _{-2,4}	16,0	2,6	3200±480
	ИДЯУ.647613.047-35	+	+	6±0,6	3,8	0,6	220±33
	ИДЯУ.647613.047-36	+	+	12 ^{+2,4} _{-1,2}	8,0	1,3	600±90
	ИДЯУ.647613.047-37	+	+	15±1,5	9,6	1,5	1200±180
	ИДЯУ.647613.047-38	+	+	24 ^{+4,8} _{-2,4}	16,0	2,6	3200±480

Technical Specification

Contact Resistance, Ohm, not more	0,15	
Operate Time, ms, not more	1,0	
Release Time, ms, not more	0,4	
For models: ИДЯУ.647613.012...-03,-10...13,-20...-23,-30...-33 ИДЯУ.647613.046...-03,-10...13,-20...-23,-30...-33 ИДЯУ.647613.047...-03,-10...13,-20...-23,-30...-33		
ИДЯУ.647613.012-05...-08,-15...-18,-25...-28,-35...-38 ИДЯУ.647613.046-05...-08,-15...-18,-25...-28,-35...-38 ИДЯУ.647613.047-05...-08,-15...-18,-25...-28,-35...-38		
Insulation Resistance between Relay Circuits, mOhm, not less	1000	
at normal ambient temperature	100	
at maximal operating temperature	10	
at high humidity, silver thaw, dew	5	
in conditions of salt fog, mold & fungi, static dust		
Relay's Insulation Strength (effective value) V	Between relay circuits	Between contacts
at normal ambient temperature	500	160
at high humidity, silver thaw, dew	300	100
at low air pressure	250	100
in conditions of salt fog, mold & fungi, static dust	200	100
Weight (shielded) g, not more	3,0	

Switching Modes

Switching Ranges		Current Type	Type of Load	Switching Frequency, Hz	Number of Switching Cycles	
I, A	U, V				Σ	t= 70°C
$5 \cdot 10^{-9} - 0,01$	$10^{-5} - 6$	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				20	$5 \cdot 10^6$	$2,5 \cdot 10^6$
0,1 - 0,5	6 - 20			10	$5 \cdot 10^6$	$2,5 \cdot 10^6$

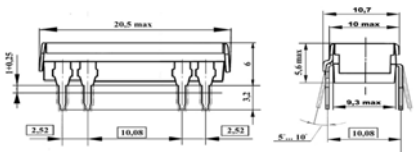
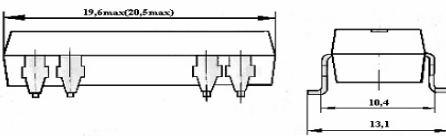
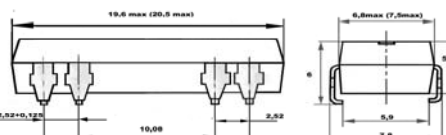
Schematic Circuit Diagram

Without a Diode, non Shielded	With a Inbuilt Diode, non Shielded	Without a Diode, Shielded	With a Inbuilt Diode, Shielded

Terminal Position

Model	Version	Terminal Position	Shield Availability
ИДЯУ.647613.012 ИДЯУ.647613.046 ИДЯУ.647613.047	00-03, 05-08, 20-23, 25-28 00-03, 05-08, 20-23, 25-28 00-03, 05-08, 20-23, 25-28		non shielded
ИДЯУ.647613.012 ИДЯУ.647613.046 ИДЯУ.647613.047	10-13, 15-18, 30-33, 35-38 10-13, 15-18, 30-33, 35-38 10-13, 15-18, 30-33, 35-38		shielded

External and Mounting Dimensions

<p>1. Relay for Print Board Mount with Through-Hole Technology RGK 35</p>	
<p>2. Relay for Surface Mount Technology with Out-curved Terminals RGK 35-2</p>	
<p>3. Relay for Surface Mount Technology with In-curved Terminals RGK 35-1</p>	

Operating Conditions

<p>Ambient Temperature, °C</p>	<p>From minus 50 to plus 70</p>
<p>Relative Humidity at $t \leq 35^\circ\text{C}$, %</p>	<p>to 98</p>
<p>Air Pressure, Pa (mm of Mercury)</p>	<p>$6,7 \cdot 10^2 \dots 30,3 \cdot 10^4$ (5...2280)</p>
<p>Sinusoidal Vibration of: over 1 to 50Hz over 50 to 2000Hz</p>	<p>With motion amplitude of 1,5 mm With acceleration amplitude of 200 m/sec^2 (20g)</p>
<p>Mechanical Shocks : single shock duration (0,1-2 ms) multiple shock duration (2-10 ms)</p>	<p>9 shocks with acceleration to 1500 m/sec^2 (150g) With acceleration to 400 m/sec^2 (40g)</p>
<p>Operating Capability and Effect Parameters of: constant and variable frequencies magnetic field strength</p>	<p>500Hz from 40Am^{-1} to 400Am^{-1} (53)</p>