

This is a low-current, electromagnetic, monostable, not polarized, not hermetically sealed reed relay with one change over magnetic operated contact (sealed contact) MKC-14104 and with an inbuilt diode for dampening of Faraday voltage, designed to switch DC electrical circuits with switching frequency to 10000 Hz; manufactured in accordance to GOST 16121-86 and ИДЯУ.647613.054 ТУ.



Environmental ratings: temperate, cold and humid climate.

Ordering data: **Relay RGK 56 ИДЯУ.647613.054 ТУ**

Technical Parameters

Model	Rated Voltage, V	Operate Voltage, V, not more than	Release Voltage, V, not less than	Coil Resistance, Ohm
ИДЯУ.647613.054-06	3±0,3	2,1	0,3	115±23
ИДЯУ.647613.054-01,-07	5±0,5	3,5	0,5	200±40
ИДЯУ.647613.054-02,-08	6±0,6	3,7	0,6	500±100
ИДЯУ.647613.054-03,-09,-04,-10	12±1,2	8,1	1,1	1000±200
ИДЯУ.647613.054-05,-11	27±2,7	19,0	2,7	2500±500

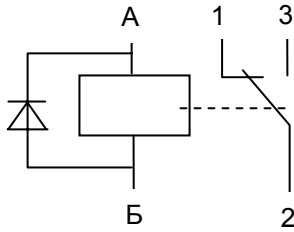
Switching Modes

Switching Range		Switching Power, W, not more	Type of Load	Current Type	Switching Frequency, Hz	Number of Switching Cycles		Value 95% of Re-course, not less
I, A	U, V					Σ	I, A	
5·10 ⁻⁶ - 10 ⁻²	5·10 ⁻² - 5	5	Active and inductive τ ≤ 0,015 c;	Const & Var	50	1,0·10 ⁶	5·10 ⁻⁶ - 10 ⁻²	2,0·10 ⁶
10 ⁻² - 2,5·10 ⁻¹	5 - 36		Active			5,0·10 ⁵	10 ⁻² - 2,5·10 ⁻¹	1,0·10 ⁶
2,5·10 ⁻¹ - 0,5	5 - 60	10				1,0·10 ⁵	2,5·10 ⁻¹ - 0,5	2,0·10 ⁵

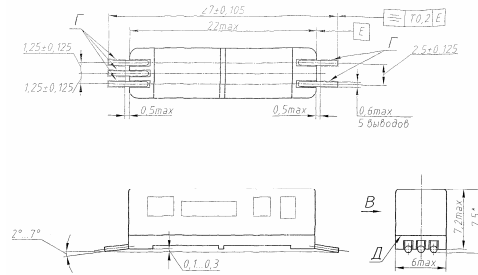
Technical Specifications

Contact Resistance, Ohm, not more than	0,3
Operate Time, ms, not more than	0,5
Release Time, ms, not more than	2,0
Insulation Resistance between Relay Circuits, mOhm, not less than	
at normal ambient temperature	500
at maximal operating temperature	10
at high humidity, silver thaw, dew	10
in conditions of salt fog, mold & fungi, static dust (Model B)	5
Relay's Insulation Strength (effective value), V	
<i>between open contacts</i> :	
at normal ambient temperature	127
at high humidity, silver thaw, dew	95
at low air pressure	110
in conditions of salt fog, mold & fungi, static dust (Model B)	95
<i>between current-carrying circuits, between current-carrying circuits and housing</i>	
at normal ambient temperature	500
at high humidity, silver thaw, dew	200
at low air pressure	250
in conditions of salt fog, mold & fungi, static dust (Model B)	200
Weight, g, not more than	2,8

Schematic Circuit Diagram



External Dimensions



Operating Conditions

Ambient Temperature, °C	From minus 60 to plus 100
Atmospheric Pressure, Pa, (mm of Mercury)	$6,7 \cdot 10^2 \dots 3,0 \cdot 10^5$ (5...2280)
Relative Air Humidity at 35 °C, %	to 98
Vibration loads: over 1 to 2000 Hz	With acceleration amplitude of 200 m/sec^2 (20g)
Shock Loads: single shocks, duration $2 \pm 0,1 \text{ ms}$ multiple shocks, duration $10 \pm 2 \text{ ms}$	9 shocks with acceleration to 5000 m/sec^2 (500g) 4000 shocks with acceleration to 400 m/sec^2 (40g)
Linear Acceleration, m/sec^2	to 500 (50g)