

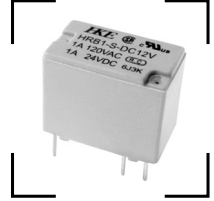


■ Safety Approval

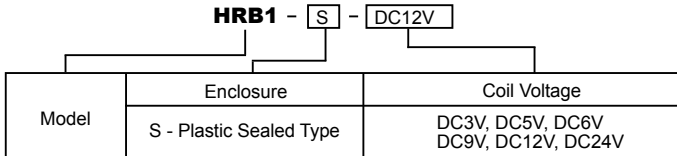
SP No. 1369391
 UL US No. E164730

■ Features

- Microminiature relay
 Dimension: 12.3×7.3×10.2 (mm)
- Light weight
- Contact: 1 Form C
- High sensitivity 150mW



ORDERING INFORMATION



Remarks: 1. Available in 1 Form C only
 2. HRB1-S-DC(3-12)V Coil Power: 150mW, HRB1-S-DC24V Coil Power: 175mW

SPECIFICATION

CONTACT DATA

Contact Form		1 Form C
Contact Material		AuAg overlay, Ag Alloy
Contact Rating		1A 120VAC/24VDC
Contact Resistance		Max. 50mΩ (6VDC 0.1A)
Load	Max. Switching Voltage	125VAC/30VDC
	Max. Switching Current	1A
	Max. Switching Power	125VA, 30W
	Min. Switching Load	5VDC, 10mA
Life	Electrical	100,000 operations
	Mechanical	5,000,000 operations

COIL DATA

Nominal Coil Power	150mW
--------------------	-------

GENERAL DATA

Insulation Resistance		Min. 1,000MΩ 500VDC
Dielectric Strength	Between open contacts	500VAC, 1min
	Between coil and contacts	1,000VAC, 1min
Operate Time		Max. 5ms
Release Time		Max. 5ms
Operating Temperature		-40℃ to +70℃
Humidity		35~95%RH, +40℃
Shock Resistance	Endurance	1,000m/s ²
	Misoperation	100m/s ²
Vibration Resistance	Endurance	10~55Hz, 1.5mm double amplitude
	Misoperation	10~55Hz, 1.5mm double amplitude
Weight		Approximately 2.2g

Note: Data shown are of initial value

SAFETY APPROVAL

File Number	Contact Form	Power Consumption	Coil Voltage	Contact Rating	Remark
UL E164730	C	0.15W	3-24VDC	1A 125VAC/24VDC	Ambient Temperature: 70℃
CSA 1369391(LR 109368)	C	0.15W	3-24VDC	1A 125VAC/24VDC	Ambient Temperature: normal

Specifications subject to change without notice

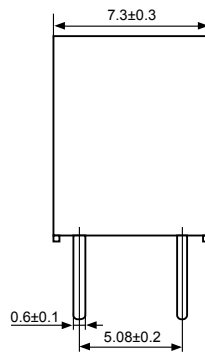
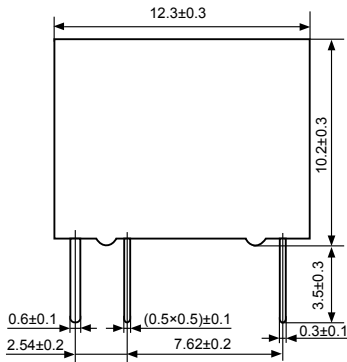
COIL DATA

Ambient Temperature: 23°C

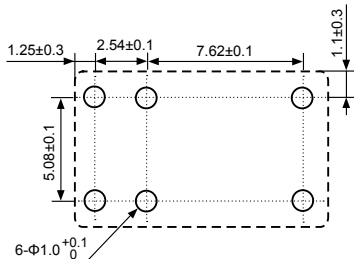
Model	Nominal Voltage VDC	Coil Resistance Ω ±10%	Operate Voltage \leq VDC	Release Voltage \geq VDC	Coil Power mW
HRB1-S-DC3V	3	60	2.25	0.30	150
HRB1-S-DC5V	5	167	3.75	0.50	
HRB1-S-DC6V	6	240	4.5	0.60	
HRB1-S-DC9V	9	540	6.75	0.90	
HRB1-S-DC12V	12	960	9.0	1.20	
HRB1-S-DC24V	24	3291	18.0	2.40	175

OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

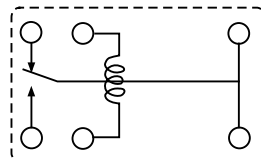
Outline



Mounting Hole Layout
(Bottom View)

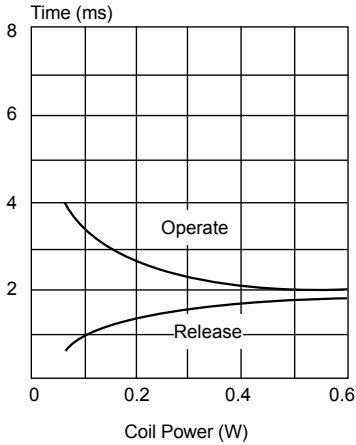


Wiring Diagram
(Bottom View)

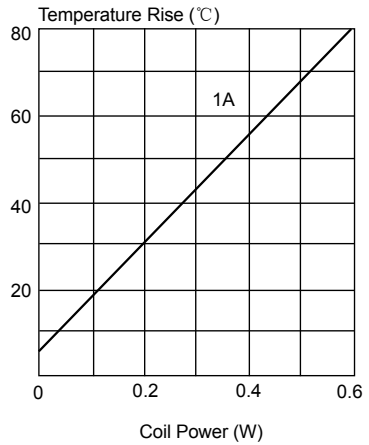


REFERENCE DATA

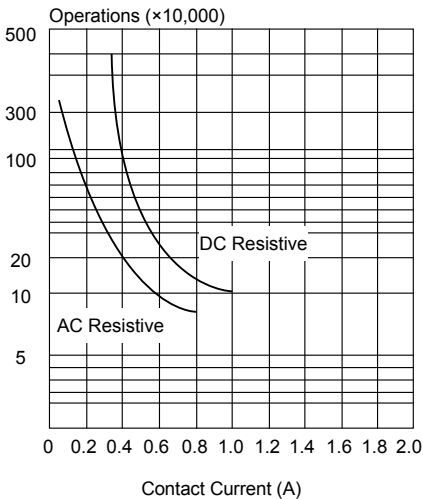
Timing



Coil Temperature Rise



Life Curves



Maximum Switching Power

