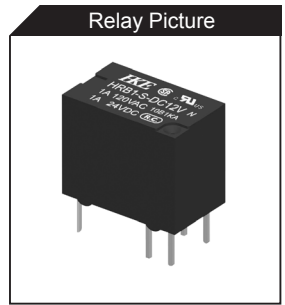
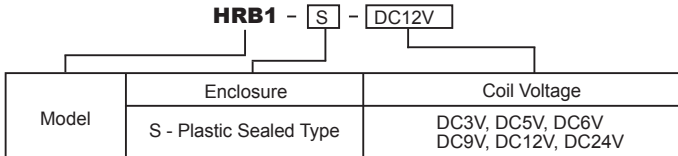




Features	
▪	Microminiature relay
	Dimensions: 12.3×7.3×10.2 (mm)
▪	Light weight
▪	Contact: 1 Form C
▪	High sensitivity 150mW
Safety Approval	
	NO.1369391
	us NO.E164730



## 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	
Contact Rating	1A 125VAC/24VDC 2A 125VAC/24VDC	
Contact Resistance	Max. 50mΩ (6VDC 0.1A)	
Load	Max. Switching Voltage	125VAC/30VDC
	Max. Switching Current	2A
	Max. Switching Power	250VA, 48W
	Min. Switching Load	5VDC, 10mA
Life	Electrical	100,000 operations
	Mechanical	5,000,000 operations

### COIL DATA

Nominal Coil Power	150mW
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### 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°C to +70°C	
Humidity	35~95%RH, +40°C	
Shock Resistance	Endurance	1,000m/s <sup>2</sup>
	Misoperation	100m/s <sup>2</sup>
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	Remarks
UL E164730	C	0.15W	3-24VDC	1A 125VAC/24VDC	Ambient Temperature: 70°C
	C	0.15W	3-24VDC	2A 125VAC/24VDC	Ambient Temperature: 70°C
CSA 1369391(LR 109368)	C	0.15W	3-24VDC	1A 125VAC/24VDC	Ambient Temperature: normal

Specifications subject to change without notice

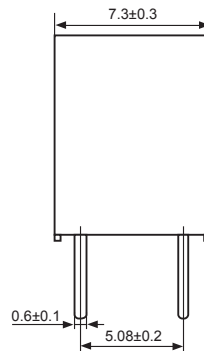
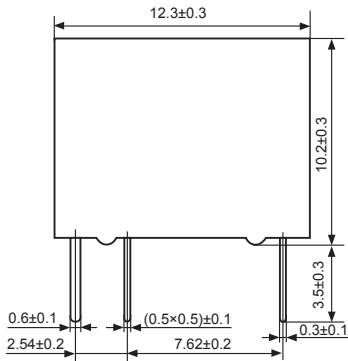
## COIL DATA

Ambient Temperature: 23°C

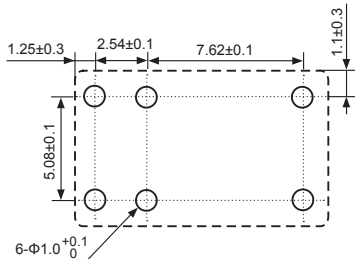
Model	Nominal Voltage VDC	Coil Resistance $\Omega \pm 10\%$	Operate Voltage $\leq$ VDC	Release Voltage $\geq$ VDC	Coil Power mW
HRB1-S-DC3V	3	60	2.25	0.30	150
HRB1-S-DC5V	5	167	3.75	0.50	
HRB1-S-DC6V	6	240	4.5	0.60	
HRB1-S-DC9V	9	540	6.75	0.90	
HRB1-S-DC12V	12	960	9.0	1.20	
HRB1-S-DC24V	24	3291	18.0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

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

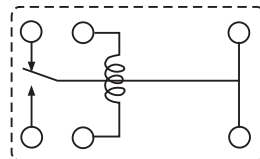
Outline



Mounting Hole Layout  
(Bottom View)

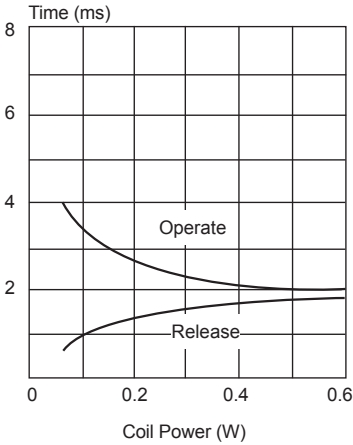


Wiring Diagram  
(Bottom View)

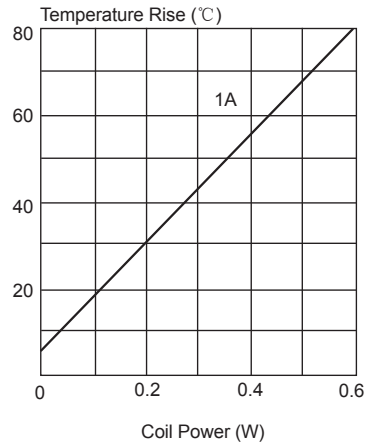


## REFERENCE DATA

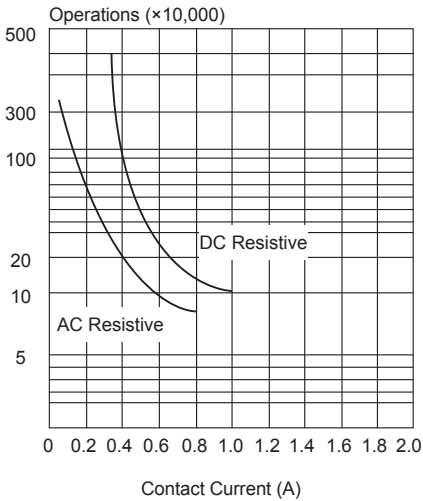
Time Curve



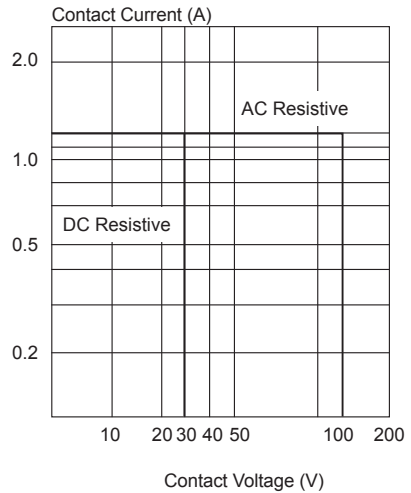
Coil Temperature Rise



Life Curves



Maximum Switching Power



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