



HRS1(H) Relay

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1.COIL DATA

1-1.Nominal Voltage	3 VDC to 24 VDC
1-2.Coil Resistance	Refer to Table 1
1-3.Operate Voltage	Refer to Table 1
1-4.Release Voltage	Refer to Table 1
1-5.Nominal Power Consumption	200 to 360 mW

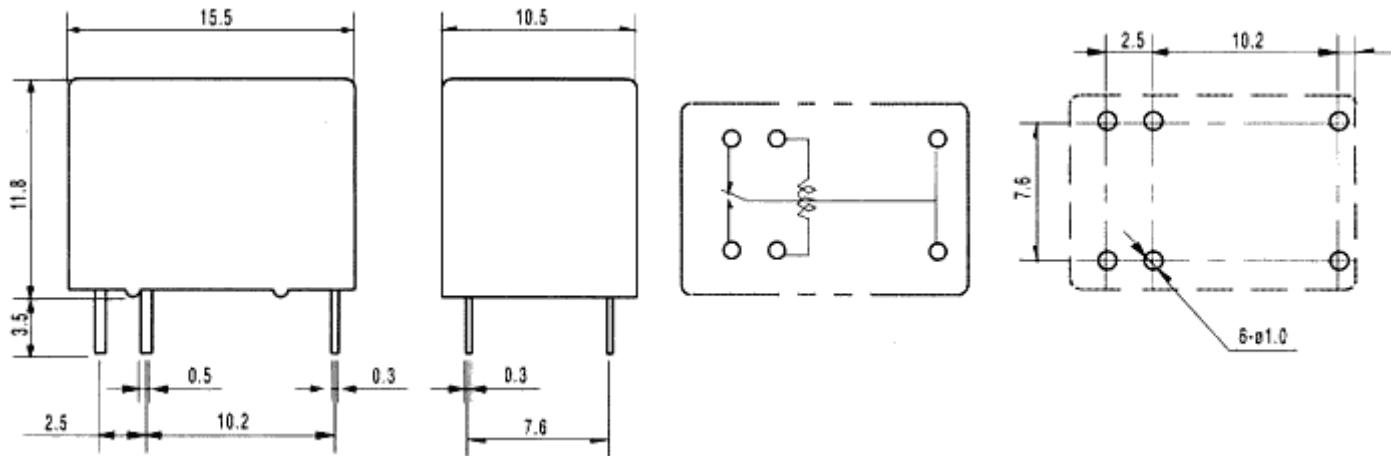
2.CONTACT DATA

2-1.Contact Arrangement	1 Form C
2-2.Contact Material	AuAg
2-3.Contact Rating	1A 24 VDC / 120VAC
2-4.Max. Switching Voltage	30 VDC / 120 VAC
2-5.Max. Switching Current	2A
2-6.Max. Switching Power	120 VA , 24W
2-7.Contact Resistance (Initial)	100 mΩ, at 6 VDC 1A
2-8.Life Expectancy	Electrical 100,000 operations at nominal load Mechanical 10,000,000 operations

3.GENERAL DATA

3-1.Insulation Resistance	Min.100MΩ, at 500 VDC
3-2.Dielectric Strength	1,000VAC , 1min between open contact 1,500VAC , 1min between contacts and coil
3-3.Operate Time	Max. 5ms
3-4.Release Time	Max. 5ms
3-5.Temperature Range	-25 to +55 ºC
3-6.Shock Resistance	10G
3-7.Vibration Resistance	10 - 55 Hz , Amplitude 1.5mm
3-8.Weight	4 gr.
3-9.Safety Standard	UL/cUL NO. E164730 CSA NO. LR109368-1

4.DIMENSIONS (in mm)



ii

5.ORDERING CODE

HRS1	H-	S	DC5V	ii ii
				NOMINAL VOLTAGE: DC3V , DC5V , DC6V , DC9V , DC12V , DC24V
				ENCLOSURE S ----WASHABLE
				COIL ii NIL ---- STANDARD TYPE H ----- HIGH SENSITIVE TYPE
				ii TYPE

6.COIL DATA CHART

ORDERING CODE	COIL NOMINAL VDC	COIL RESISTANCE , +/- 10%	OPERATE VOLTAGE VDC	RELEASE VOLTAGE VDC	COIL NOMINAL mW
HRS1-S DC3V	3	25	2.25	0.30	360
HRS1-S DC5V	5	70	3.75	0.50	
HRS1-S DC6V	6	100	4.50	0.60	
HRS1-S DC9V	9	220	6.75	0.90	
HRS1-S DC12V	12	400	9.00	1.20	
HRS1-S DC24V	24	1600	18.00	2.40	
HRS1H-S DC3V	3	45	2.25	0.30	200
HRS1H-S DC5V	5	120	3.75	0.50	
HRS1H-S DC6V	6	180	4.50	0.60	
HRS1H-S DC9V	9	400	6.75	0.90	
HRS1H-S DC12V	12	700	9.00	1.20	

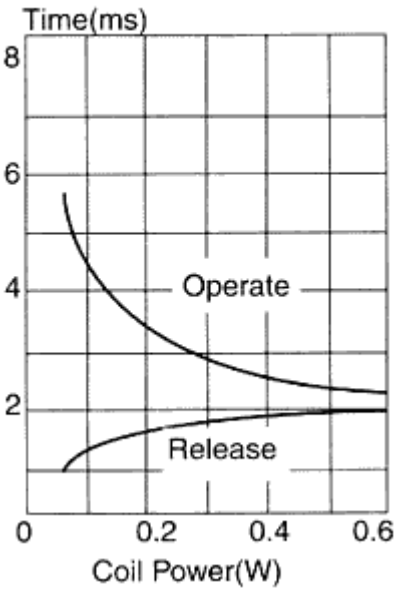
HRS1H-S DC24V	24	2800	18.00	2.40	
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Table 1

7.HRS1(H) CHARACTERISTIC DATA

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Timing

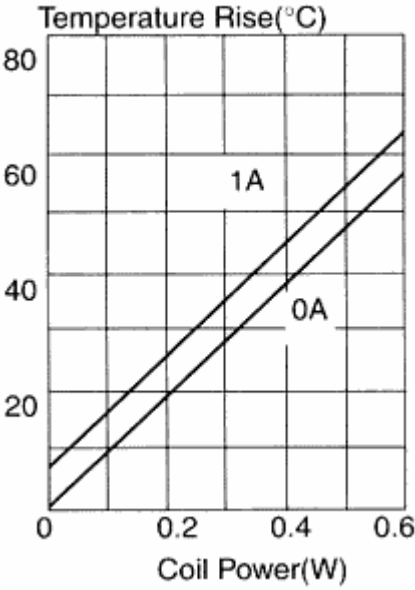


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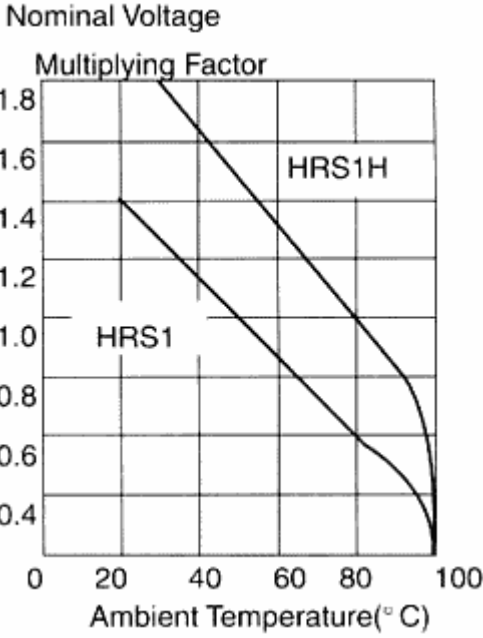
Maximum Switching Power

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Coil Temperature Rise



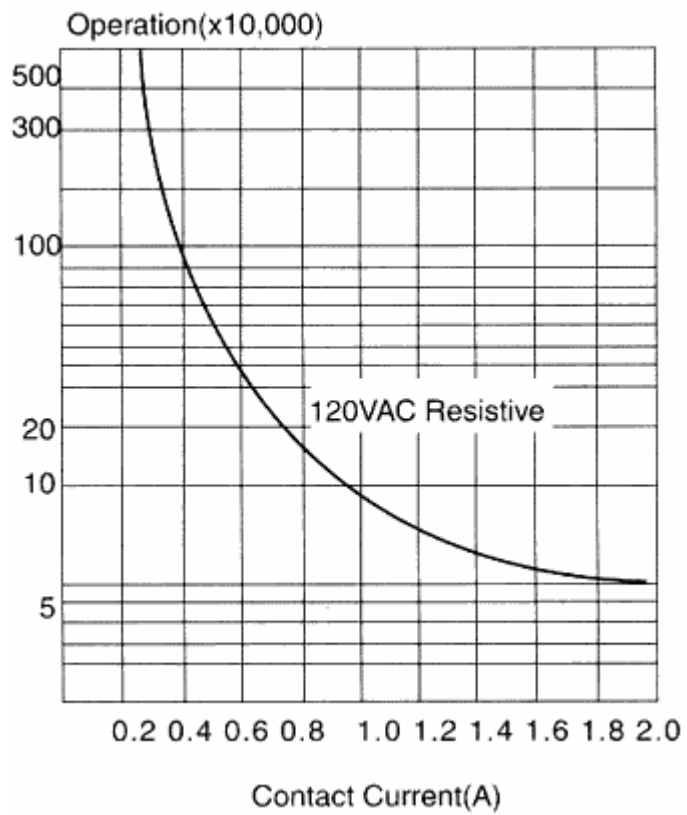
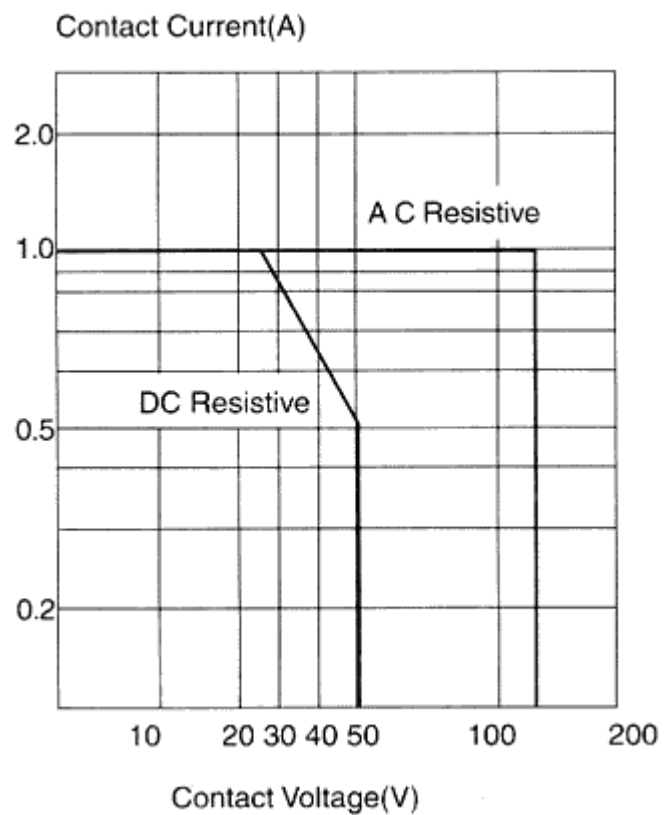
Operating Range



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Life Curve

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