

HRS2H

 SIGNAL RELAY

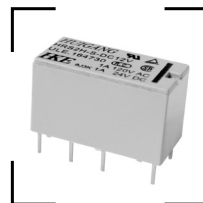
■ Safety Approval

 No. E164730

 No. 50097843

■ Features

- Microminiature relay
Dimension: 20.3×9.9×11.4 (mm)
- High sensitivity
- 2 Form C contacts



ORDERING INFORMATION

HRS2H - S - DC12V - T			
Model	Enclosure	Coil Voltage	Coil Sensitivity
	S - Plastic Sealed Type	DC3V, DC5V, DC6V DC9V, DC12V, DC24V	Blank: 450mW T - High Sensitivity (150mW) N - Sensitivity (200mW) B - Standard 360mW (48VDC: 400mW)

Remarks: 1. Available in 2 Form C only 2. Contact rating: 1A, 2A

SPECIFICATION

CONTACT DATA

Contact Form		2 Form C
Contact Material		AuAg overlay, Ag Alloy
Contact Rating		1A 120VAC/24VDC 2A 120VAC/24VDC
Contact Resistance		Max. 50mΩ (6VDC 0.1A)
Load	Max. Switching Voltage	125VAC/30VDC
	Max. Switching Current	2A
	Max. Switching Power	250VA, 60W
	Min. Switching Load	5VDC, 10mA
Life	Electrical	100,000 operations
	Mechanical	15,000,000 operations

COIL DATA

Nominal Coil Power	150mW, 200mW, 360mW, 450mW
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GENERAL DATA

Insulation Resistance		Min. 1000MΩ 500VDC
Dielectric Strength	Between open contacts	500VAC, 1min
	Between coil and contacts	1,000VAC, 1min
Operate Time		Max. 7ms
Release Time		Max. 3ms
Operating Temperature		-25℃ to +70℃
Humidity		35~95%RH, +40℃
Surge Strength		1,500VAC, 10x160 μs
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 5.0g

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/0.20W/0.36W	3-48VDC	1A 120VAC/24VDC 2A 120VAC/24VDC	Ambient Temperature: 85℃
	C	0.45W	3-48VDC	1A 120VAC/24VDC	
TUV 50097843	C	0.20W/0.36W	3-24VDC	1A 120VAC/24VDC	Ambient Temperature: 70℃

Specifications subject to change without notice

ISO9001、ISO/TS16949、ISO14001 Approved

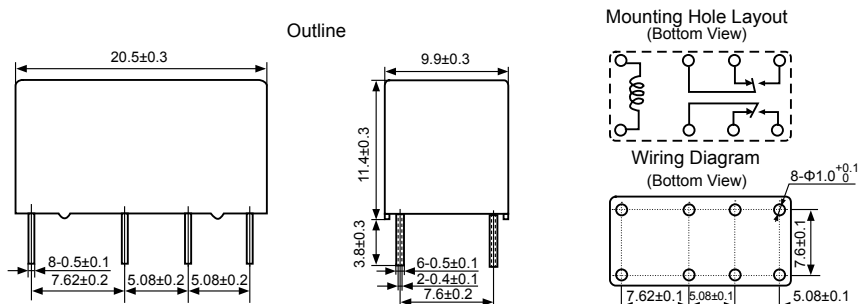
HKE HRS2H-198

COIL DATA

Ambient Temperature: 23℃

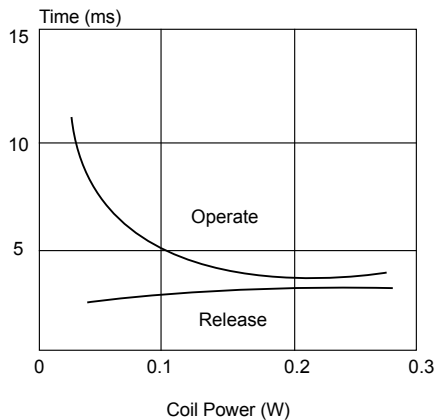
Model	Nominal Voltage VDC	Coil Resistance $\Omega \pm 10\%$	Operate Voltage $\leq \text{VDC}$	Release Voltage $\geq \text{VDC}$	Coil Power mW
HRS2H-S-DC3V-N	3	45	2.25	0.3	200
HRS2H-S-DC5V-N	5	125	3.75	0.5	
HRS2H-S-DC6V-N	6	180	4.5	0.6	
HRS2H-S-DC9V-N	9	405	6.75	0.9	
HRS2H-S-DC12V-N	12	720	9.0	1.2	
HRS2H-S-DC24V-N	24	2880	18.0	2.4	
HRS2H-S-DC48V-N	48	11520	36.0	4.8	150
HRS2H-S-DC3V-T	3	60	2.25	0.3	
HRS2H-S-DC5V-T	5	166	3.75	0.5	
HRS2H-S-DC6V-T	6	240	4.5	0.6	
HRS2H-S-DC9V-T	9	540	6.75	0.9	
HRS2H-S-DC12V-T	12	960	9.0	1.2	
HRS2H-S-DC24V-T	24	3840	18.0	2.4	360
HRS2H-S-DC48V-T	48	15360	36.0	4.8	
HRS2H-S-DC3V-B	3	25	2.25	0.3	
HRS2H-S-DC5V-B	5	69.4	3.75	0.5	
HRS2H-S-DC6V-B	6	100	4.5	0.6	
HRS2H-S-DC9V-B	9	225	6.75	0.9	400
HRS2H-S-DC12V-B	12	400	9.0	1.2	
HRS2H-S-DC24V-B	24	1600	18.0	2.4	
HRS2H-S-DC48V-B	48	5760	36.0	4.8	
HRS2H-S-DC3V	3	20	2.25	0.3	450
HRS2H-S-DC5V	5	55.6	3.75	0.5	
HRS2H-S-DC6V	6	80	4.5	0.6	
HRS2H-S-DC9V	9	180	6.75	0.9	
HRS2H-S-DC12V	12	320	9.0	1.2	
HRS2H-S-DC24V	24	1280	18.0	2.4	
HRS2H-S-DC48V	48	5120	36.0	4.8	

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

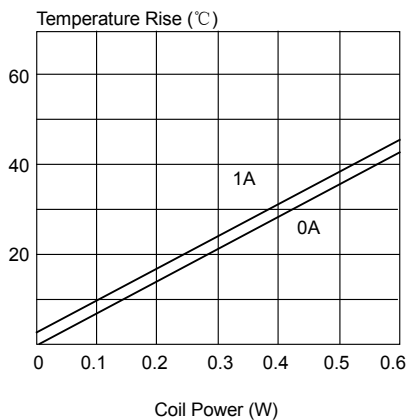


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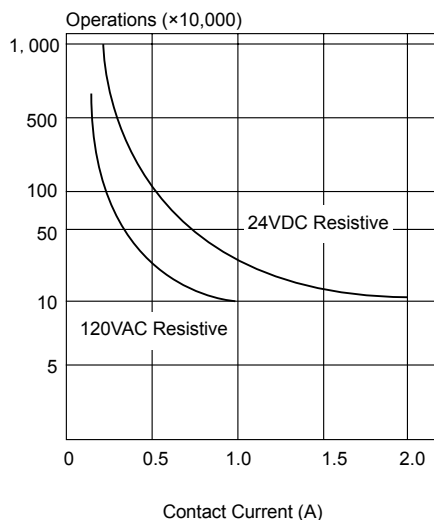
Timing



Coil Temperature Rise



Life Curves



Maximum Switching Power

