

**HRS1KH3**

POWER RELAY

**■ Safety Approval**

No. 1426410



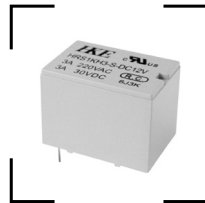
No. CQC02001001301



us No. E164730

**■ Features**

- Microminiature relay  
Dimension: 15.6×10.6×11.8 (mm)
- High sensitivity
- Contact: 1 Form A
- Switching capacity 3A

**ORDERING INFORMATION**

<b>HRS1KH3 - S - DC12V</b>		
Model	Enclosure	Coil Voltage
	S - Plastic Sealed Type	DC3V, DC5V, DC6V DC9V, DC12V, DC24V

Remarks: 1. Available in 1 Form A only 2. Coil Power 200mW

**SPECIFICATION****CONTACT DATA**

Contact Form		1 Form A
Contact Material		Ag Alloy
Contact Rating		3A 220VAC/30VDC
Contact Resistance		Max. 50mΩ (6VDC 1A)
Load	Max. Switching Voltage	220VAC/30VDC
	Max. Switching Current	3A
	Max. Switching Power	660VA, 90W
	Min. Switching Load	5VDC, 100mA
Life	Electrical	100,000 operations
	Mechanical	10,000,000 operations

**COIL DATA**

Nominal Coil Power	200mW
--------------------	-------

**GENERAL DATA**

Insulation Resistance		Min. 100MΩ 500VDC
Dielectric Strength	Between open contacts	750VAC, 1min
	Between coil and contacts	1,000VAC, 1min
Operate Time		Max. 6ms
Release Time		Max. 5ms
Operating Temperature		-25°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 4.0g

Note: Data shown are of initial value

**SAFETY APPROVAL**

File Number	Contact Form	Power Consumption	Coil Voltage	Contact Rating
UL E164730	A	0.2W	3-24VDC	3A 220VAC/30VDC
CSA 1426410	A	0.2W	3-24VDC	3A 220VAC/30VDC
CQC 02001001301	A	0.2W	3-48VDC	3A 250VAC

Specifications subject to change without notice

ISO9001、ISO/TS16949、ISO14001 Approved

**FKE** HRS1KH3-203

**HRS1KH3**

POWER RELAY

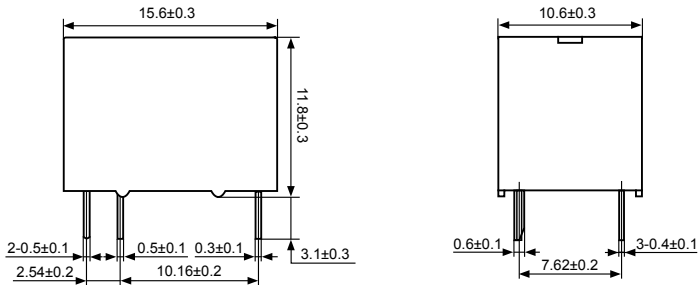
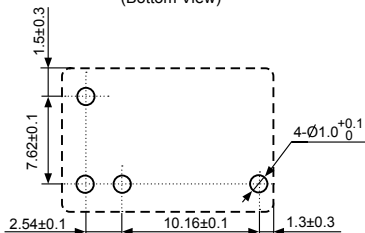
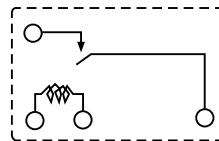
## COIL DATA

Ambient Temperature: 23°C

Model	Nominal Voltage VDC	Coil Resistance $\Omega \pm 10\%$	Operate Voltage $\leq \text{VDC}$	Release Voltage $\geq \text{VDC}$	Coil Power mW
HRS1KH3-S-DC3V	3	45	2.25	0.30	200
HRS1KH3-S-DC5V	5	125	3.75	0.50	
HRS1KH3-S-DC6V	6	180	4.5	0.60	
HRS1KH3-S-DC9V	9	405	6.75	0.90	
HRS1KH3-S-DC12V	12	720	9.0	1.20	
HRS1KH3-S-DC24V	24	2880	18.0	2.40	

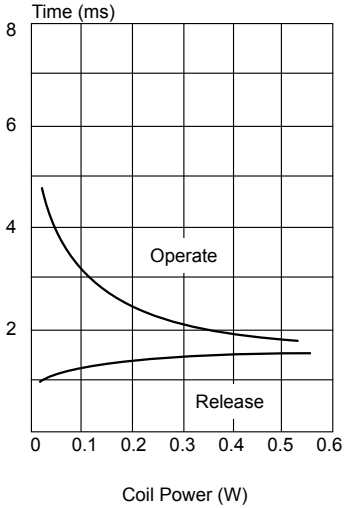
## OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

## Outline

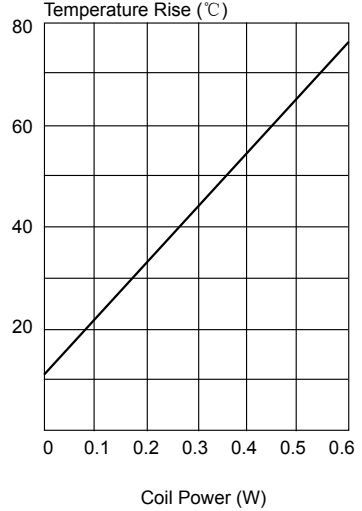
Mounting Hole Layout  
(Bottom View)Wiring Diagram  
(Bottom View)

REFERENCE DATA

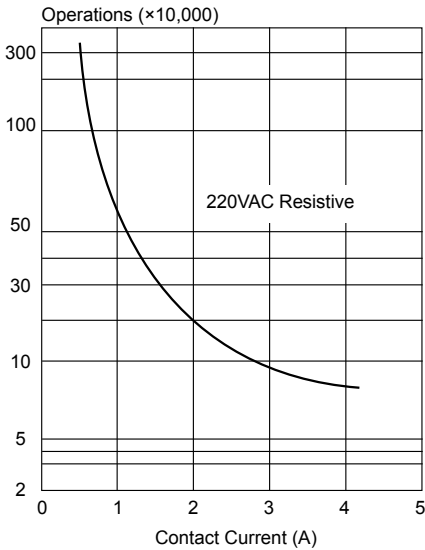
Timing



Coil Temperature Rise



Life Curve



Maximum Switching Power

