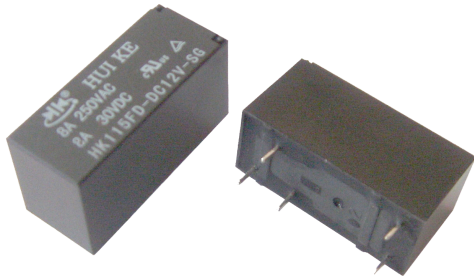


HK115FD

MINIATURE HIGH POWER RELAY



Features

- Low height: 15.7 mm
- 8A max switching capability
- 5kV dielectric strength (between coil and contacts)
- Creepage distance: 10mm
- Outline Dimensions: (29.6 x 12.7 x 15.7) mm
- Plastic sealed and flux proofed types available
- Environmental friendly product (RoHS compliant)

■ CONTACT DATA

Contact Form	2A 2B 2C
Contact Material	Silver Alloy
Contact Ratings	8A 250VAC 30VDC
Max Switching Voltage	440VAC/125VDC
Max Switching Current	8A
Max Switching Power	2000VA /240W
Contact Resistance	100MΩ(at 1A 6VDC)
Electrical Life	1X105Ops(30Ops/min)
Mechanical Life	1X107Ops(300Ops/min)

■ GENERAL DATA

Insulation Resistance		100MΩ 500VDC
Dielectric Strength	Between coil & contacts	5000VAC 1min
	Between open contacts	1000VAC 1min
Operate Time		Max. 15ms
Release Time		Max. 8ms
Temperature Range		- 40℃ to +70℃
Shcok Resistance	Functional	98m/s ² (10g)
	Destructive	980m/s ² (100g)
Vibration Resistance		10 to 55Hz 1.5mm
Humidity		35% to 85% RH
Weight		Approx. 13g
Safety Standard		CQC CUL TÜV

■ COIL DATA

Nominal Voltage (VDC)	Coil Resistance at 20℃ ± 10%(Ω)	Max Operate Voltage (VDC)	Min Release Voltage (VDC)	Max Applicate Voltage (VDC)
	0.4W			
3	22.5	2.25	0.30	3.90
5	62.5	3.75	0.50	6.50
6	90	4.50	0.60	7.80
9	202	6.75	0.90	11.70
12	360	9.00	1.20	15.60
24	1440	18.00	2.40	31.20
48	5760	36.00	4.80	62.40

ORDERING INFORMATION

HK115FD	-	DC	12V	-	S	H	C	X	X		
										Special request code	G:RoHS
										Mounting termination	NIL:PCB
										Contact Form	C A B NIL:C
										Coil Power	H:0.4W
										Type of Sealing	F: Flow Solder Type S: Plastic Sealed Type
										Coil Voltage	3V 5V 6V 9V 12V 24V 48V
										Coil Type	DC
										Type	HK115FD

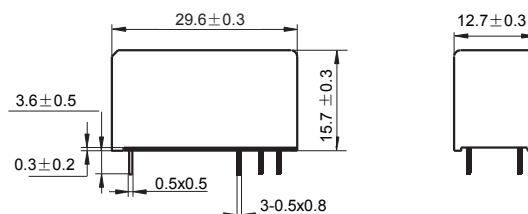
Notes: 1) We recommend flux proofed types for a clean environment (free from contaminations like H₂S, SO₂, NO₂, dust, etc.).
We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S, SO₂, NO₂, dust, etc).
If water cleaning is required after the relay is assembled on PCB, please contact us for suggestion about suitable parts.
2) For gold plated type, the min. switching current and min. switching voltage is 10mA 5VDC.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

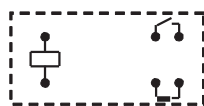
Outline Dimensions

5.08mm Pinning

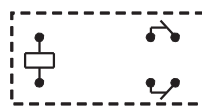


Wiring Diagram (Bottom view)

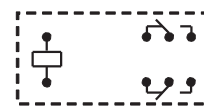
5.08mm Pinning, 2 Pole, 8A



2 Form A



2 Form B



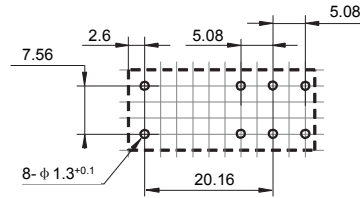
2 Form C

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

PCB Layout (Bottom view)

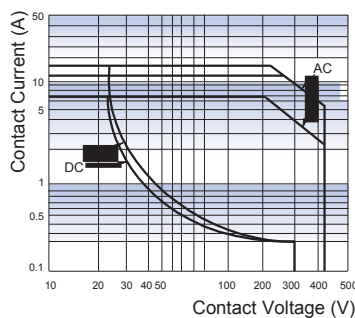
5.08mm 2Pole 8A



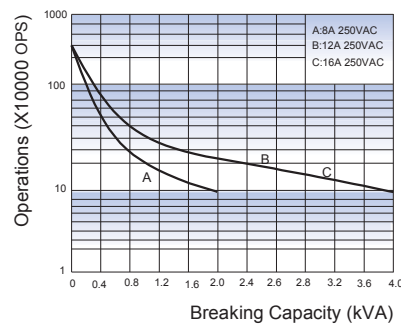
- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
 2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.
 3) The width of the gridding is 2.52mm.

CHARACTERISTIC CURVES

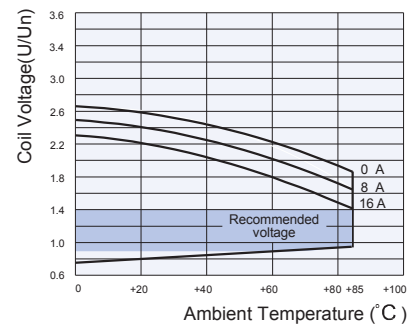
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL OPERATING RANGE (DC)



Notes: The use of a relay with an energising voltage other than the rated coil voltage may lead to reduced electrical life. An energising voltage over the abover range may damage the insulation of relay coil.

Disclaimer

This datasheet is for the customers' reference. All the specifications are subject to change without notice.

We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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