

SAFETY APPROVAL RATINGS

UL/CUL	1 Form A	AgCdO	5A 250VAC/30VDC at 40°C 8A 250VAC at 40°C 10A 125VAC at 40°C 10A 277VAC COSØ =0.4 at 40°C 1/10HP 125VAC, 1/6HP 250VAC at 40°C
		AgNi	5A 250VAC/30VDC at 70°C 8A 250VAC at 70°C 10A 125VAC at 70°C 10A 277VAC COSØ =0.4 at 70°C 1/10HP 125VAC, 1/6HP 250VAC at 70°C
		AgSnO ₂	5A 250VAC/30VDC at 70°C 10A 125VAC at 70°C 1A tungsten 120VAC at 105°C 15A LRA; 2.5A FLA 120VAC at 105°C 4A 120VAC at 105°C
	1 Form C	AgCdO	3A 250VAC at 40°C 3A 30VDC at 40°C
		AgNi AgSnO ₂	3A 250VAC at 70°C 3A 30VDC at 70°C
	1 Form C	AgCdO AgNi	3A 250VAC at 70°C
VDE	1 Form A	AgNi	5A 250VAC at 85°C
		AgCdO AgSnO ₂	5A 250VAC at 70°C
	1 Form C	AgCdO AgNi	3A 250VAC at 70°C

Notes: Only some typical ratings are listed above. If more details are required, please contact us.

ORDERING INFORMATION

	HF33F /		012	-H	S	L	3	G	F	(XXX)
Type										
Coil voltage	3, 5, 6, 9, 12, 18, 24, 48VDC									
Contact arrangement	H: 1 Form A		Z: 1 Form C							
Construction ¹⁾	S: Plastic sealed		Nil: Flux proofed							
Coil power	L: Sensitive (Only for 1 Form A)		Nil: Standard							
Contact material	T: AgSnO ₂		3: AgNi		Nil: AgCdO					
Contact plating	G: Gold plated		Nil: No gold plated							
Insulation standard	F: Class F		Nil: Class B							
Customer special code										

Notes: 1) Under the ambience with dangerous gas like H₂S, SO₂ or NO₂, plastic sealed type is recommended; Please test the relay in real applications.
If the ambience allows, flux proofed type is preferentially recommended.
If water cleaning is required after the relay is assembled on PCB, please contact us for suggestion about suitable parts.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

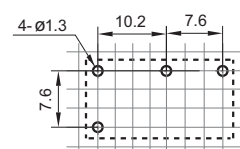
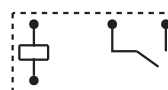
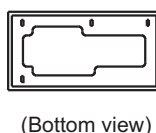
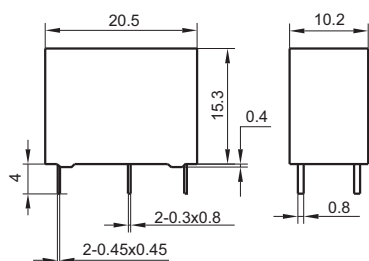
Unit: mm

Outline Dimensions

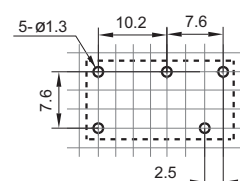
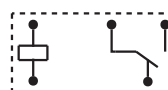
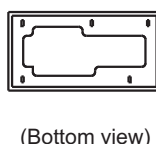
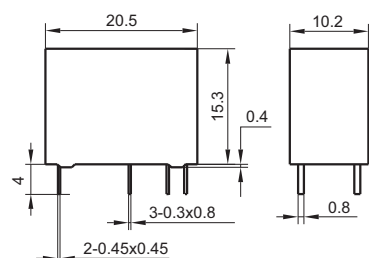
Wiring Diagram (Bottom view)

PCB Layout (Bottom view)

1 Form A



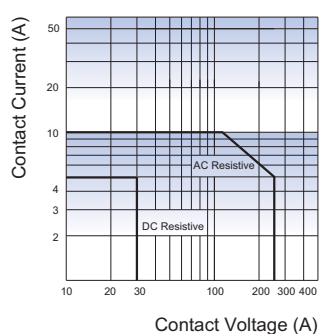
1 Form C



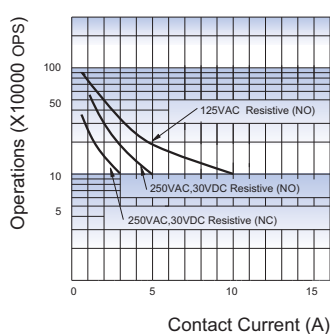
- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
 2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.
 3) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES

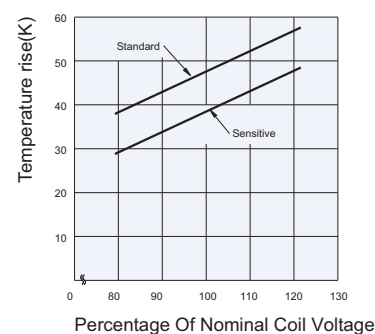
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



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 to 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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