



Product Features

- Ceramic vacuum brazing seal is adopted to ensure no arc leakage, and the contact point can meet the protection grade of IP6K9K.
- The mixed gas mainly filled with hydrogen can quickly cool the arc and prevent the contact from oxidation and burning.
- 10A 85°C long time current carrying capacity.
- The rated voltage of cut-off load is 12-750VDC.
- The insulation resistance reaches 1000m Ω (1000VDC) and meets the requirements of IEC 60664-1.
- There is no polarity requirement for load and coil.

		Contact Parameters				
Contact For	m	1a				
Contact Resistance		4.5mΩ (at 10A)				
Contact Rated Load		10A				
Mechanical Durability		2×10 ^s times				
		450V type	750V type			
Max. Switching Voltage		1000VDC	1000VDC			
Max. Breaking Current		100A(320VDC)1times	100A(320VDC)1times			
Max. Switching Power		4.5kW	7.5kW			
The Durability Of Electricity (1)	Resistive Load	Switchover: 1×10 ⁵ times (450VDC,10A)	Switchover: 1×10 ⁵ times (750VDC,10A)			
Current Tolerance (2)		10A:last; sustain				
		15A:1h				
		20A:20min				
		40A:30s				
		60A:10s				
		100A:0.6s				

Remarks: (1) Unless otherwise indicated, the test temperature is 23 °C, the on-off ratio is 0.6s: 5.4s. During the test, the coil is not connected with surge suppression device. Please note that if the coil parallel diode is used, the release time of the contactor will be greatly prolonged and the service

(2) The ambient temperature is 85 °C, and the cross-sectional area of the conductor is ≥ 2.5 mm². For detailed current loading conditions, please refer to the attached figure "tolerance curve".

Performance Parameters						
Ins	ulation Resistance	1000MΩ(1000VDC)				
Dielectric	Between Contacts and Coil	3000VAC 1min				
Withstand Voltage	Between Open Contacts	3000VAC 1min				
Operating	g Time (at rated voltage)	≤30ms				
Release	Time (at rated voltage)	≤10ms				
Innancet	Stability	196m/s²				
Impact	Strength	490m/s²				
	Vibration	10Hz ~ 500Hz 49m/s²				
	Fumidity	5% ~ 85%RH				
	Temperature	-40°C ~ 85°C				
Foi	rm Of Load Outlet	QC outlet				
	Weight	About 150g				
	Dimensions	66.8mm×39.0mm×48.2mm				

Note: The above values are the initial values at room temperature.

Coil Parameters						
Rated Voltage VDC	Operating Voltage VDC	Release Voltage VDC	Coil Power Consumption W			
12	≤9	≥1	2.6			
24	≤18	≥2	2.6			

Note: The above values are conservative values in the full temperature range (-40°C ~ 85°C).

Example Of Order Marking

HFEVC -	<u>T</u>	F	010	/	<u>750</u> -	12 -	\underline{c}	N	<u>SM</u> -	
1	2	3	4		5	6	7	8	9	10

1, Product Model HFEVC: Huanfang High Pressure Contactor T: Ceramic Seal Type 2、Product Type H: Epoxy Sealed Type 3. Product Appearance F: Square Product Y: Circular Products

010: 10A 4、Series Code

DC Blank: 450V 750: 750V 5、Voltage Classes 12: DC12V 24: DC24V PWM: 9V~24V 6, Coil Voltage

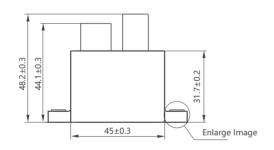
7、Coil Lead - out Mode C: Connector; L: Outlet; QC Insert Type Leading End Blank: Without N: With Normally Open Auxiliary Contacts
Blank: Vertical Installation SM: Horizontal Installation 8. With Auxiliary Contact Or Not 9. Installation Mode

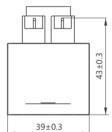
10、Customer Characteristics Code Subject To Customer Requirements

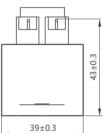
Remarks:(1) special requirements of customers shall be marked in the form of special number after review by our company.

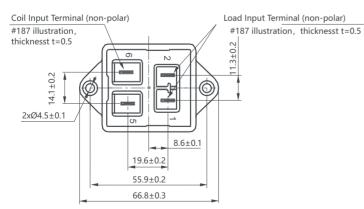
Unit: mm

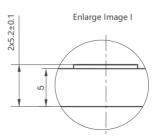
Outline drawing, mounting hole size





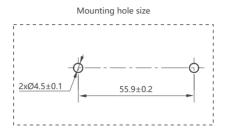


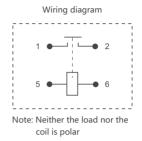




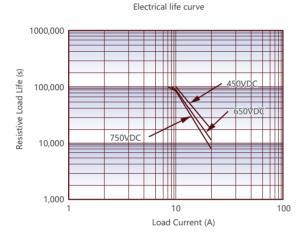
Note: The external dimension of part of the product is not marked with tolerance. When the external dimension is ≤ 10 mm, the tolerance is ± 0.2 mm; When the external dimensions are between ($10\sim50$) mm tolerance is ±0.3 mm; When the external dimension is >50mm, the tolerance is ±0.4 mm.

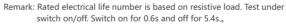
Mounting hole size/Wiring diagram

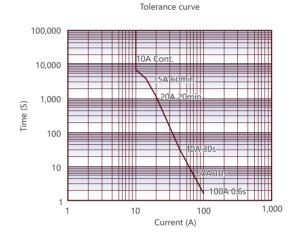




Performance graph







Note: The above data is measured under the conditions of ambient temperature 85°C and the sectional area of conductor wire $\geq 2.5 \text{mm}^2$. The data is for reference only, do not use it to select fuse directly.



Precautions for use

- 1. To prevent looseness, please use gasket when installing contactor. M4 screw should be used at the installation of contactor, and the locking torque of screw should be controlled within 1.8N·m ~ 2.7N·m; the allowable pulling force of lead out pin of contactor is (1) load outlet: ≤ 49n; (2) coil lead out pin: ≤ 49n. In case of exceeding the range, it may cause damage.
- 2. Please avoid sticking grease and other foreign matters on the lead-out piece, and use the connecting wire with the specification of more than 2.5mm², otherwise it may cause abnormal heating of the lead-in end.



Statement:

- 1. The document is for customer reference only. Huanfang has made every effort to ensure the accuracy of the information in this document. However, mistakes are inevitable, and the products, specifications and parameters may be changed due to product improvement. For the specific parameters and performance of each product, please refer to the specifications and samples provided by Huanfang without further notice.
- 2. As for the application field, it is impossible for Huanfang to evaluate all performance parameters of contactor in each specific application field. Therefore, customers should select the products matching with the contactor according to the specific service conditions. If the requirements are not specified clearly, please contact Huanfang for more technical support. Huanfang clearly states that the information in this document is only for selection reference, and the responsibility of product selection is only the responsibility of the customer.