



Product Features

- The imported epoxy resin sealant has high and low temperature resistance and good safety, 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 prevent the contact from oxidation and burning
- 80A 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 Form		1a		
Contact Resistance		≤1mΩ (at 20A)		
Contact Rated Load		80A		
Mechanical Durability		2×10 ^s times		
		450V Type	750V Type	
Max. Switching Voltage		1000VDC	1000VDC	
Max. Breaking Current		800A(320VDC)1 times	800A(320VDC)1 times	
Max. Switching Power		36kW	60kW	
The Durability Of Flootricity (1)	Resistive Load	Switchover: 1×10 ⁴ times (450VDC, 80A)	Switchover: 1×10 ⁴ times (750VDC, 80A)	
The Durability Of Electricity (1)		Switch on: 7.5×10^{4} times (450VDC, 80A)	Switch on: 7.5×10 ⁴ times (450VDC, 80A)	
-		80A:last; sustain		
		120A:30min		
Current Tolerance ⁽²⁾		160A:1min		
		300A:10s		

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 life will be reduced.

(2) The ambient temperature is 85 °C, and the cross-sectional area of the conductor is ≥ 20 mm². For detailed current loading conditions, please refer to the attached figure "tolerance curve".

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Performance Parameters

Ins	ulation Resistance	1000MΩ(1000VDC)	
Dielectric Withstand Voltage	Between Contacts and Coil	3000VAC 1min	
	Between Open Contacts	3000VAC 1min	
Operating Time (at rated voltage)		≤30ms	
Release	Time (at rated voltage)	≤10ms	
l no no st	Stability	196m/s²	
Impact	Strength	490m/s ²	
	Vibration	10Hz ~ 500Hz 49m/s²	
	Fumidity	5% ~ 85%RH	
Temperature		-40°C ~ 85°C	
Form Of Load Outlet		5M Internal Thread	
Weight		About 225g	

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

Coil Parameters Rated Voltage Operating Voltage Release Voltage Coil Power Const

VDC	VDC	Release Voltage VDC	Coll Power Consumption W
12	≤9	≥1.2	5.5W
24	≤18	≥2.4	6W

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

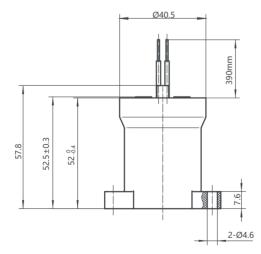
Example Of Order Marking

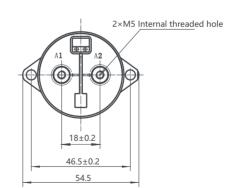
$\frac{\textbf{HFEVC}}{1} - \frac{\textbf{H}}{2} + \frac{\textbf{Y}}{3} + \frac{\textbf{080}}{4} + \frac{\textbf{750}}{5} - \frac{\textbf{H}}{6}$	<u>2</u> - <u>C</u> <u>N</u> <u>SM</u> - <u></u> 5 7 8 9 10		
1、Product Model	HFEVC: Huanfang High Pressure Contactor		
2、Product Type	T: Ceramic Seal Type H: Epoxy Sealed Type		
3、Product Appearance	F: Square Product Y: Circular Products		
4、Series Code	080: 80A		
5、Voltage Classes DC Blank: 450V 750: 750V			
6、Coil Voltage	12: DC12V 24: DC24V PWM: 9V~24V		
7、Coil Lead - out Mode C: Connector; L: Outlet;			
8、With Auxiliary Contact Or Not	Blank: Without N: With Normally Open Auxiliary Contacts		
9、Installation Mode Blank: Vertical Installation SM: Horizontal Installation			
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.

Outline drawing, mounting hole size

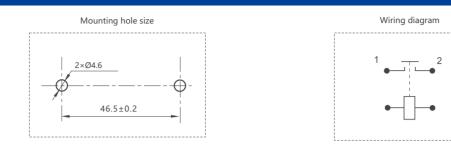
Unit: mm



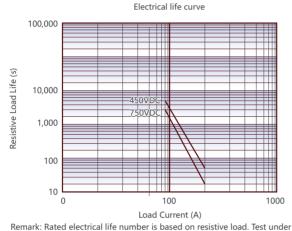


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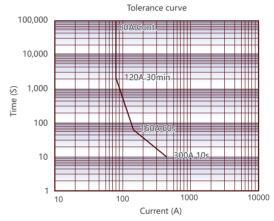
Mounting hole size/Wiring diagram



Performance graph



Remark: Rated electrical life number is based on resistive load. Test under switch on/off. Switch on for 0.6s and off for 5.4s.,



Note: The above data is measured under the conditions of ambient temperature 85°C and the sectional area of conductor wire ≥20mm². 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. Please install the contactor and load outlet in the way specified in the table below, and control the torque within the required range. In case of exceeding the range, the contactor may be damaged.

Load the mounting part of the leading-out terminal				Contactor mounting part	
Installation	Torque requirement	Aperture of copper bar	Copper bar thickness	Installation	Torque requirement
M5 Screw (Internal thread type)	3N·m∼4N·m	Ø5.0~Ø5.5mm	3mm	M4 Screw	3N•m∼4N•m
M8 Nuts (External thread type)	10N·m ~ 12N·m	Ø5.0~Ø5.5mm	3mm	M4 Screw	3N•m~4N•m

2.Please to avoid sticking grease and other foreign bodies on the leading-out piece, and use the connection wire of 20mm² or above, otherwise abnormal heating may be caused at the leading-out end.

3. It is suggested that the thickness of copper strip is 3mm, otherwise it will cause the problem of thread sliding teeth or loose installation.

Statement:

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- 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.