



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
- 350A 85°C long time current carrying capacity
- The rated voltage of the cut-off load is 12-750VDC, and the maximum cut-off load voltage is 900VDC
- The insulation resistance reaches 1000m Ω (1000VDC) and meets the requirements of IEC 60664-1
- Energy saving type: controlling by wide voltage PWM board, when at low power consumption, product can keep in incentive condition.
- It can be equipped with auxiliary contact to effectively monitor the onoff of main contact.
- There is no polarity requirement for load and coil.

			Contact Parameters		
Contact Form			1a		
Contact Resistance			≤0.5mΩ (at 350A)		
Contact Rated Load			350A		
Mechanical Durability		bility	2×10 ^s times		
			450V Type	750V Type	
Max. Switching Voltage			750VDC	750VDC	
Max. Breaking Current		ırrent	2000A (320VDC) 1 times	2000A (320VDC) 1 times	
Max. Switching Power			135kW	225kW	
		Capacitive Load	Switch on: 5×10^4 times (32VDC, τ =1ms, impact 350A)	Switch on: 5×10 ⁴ times (32VDC, τ=1ms, impact 350A)	
			Switch on: 50 times (64VDC, τ=1ms, impact 650A)	Switch on: 50 times (64VDC, τ=1ms, impact 650A)	
The Durabilit	ty Of Electricity (1)	Resistive Load	Switchover: 1×10³ times (450VDC, 350A)	Switchover: 500 times (750VDC, 350A)	
			Switchover: 200 times (450VDC, -350A)	Switchover: 100 times (750VDC, -350A)	
			Breaking: 1 times (450VDC, 2000A)	Breaking: 1 times (450VDC, 2000A)	
			350A:last; sustain		
		(7)	450A:10min		
	Current Toleran	ice (2)	600A:1min		
			2000A:1s		
Auxiliary Contact	Appoint (Normally Open)		1NO		
	Rated Operating Low Voltage(Ue)		30VDC/125VAC		
			2A (DC) /3A (AC)		
	Min. Operating Voltage Current		9V0.1A		

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 ≥ 150 mm². For detailed current loading conditions, please refer to the attached figure "tolerance curve".

Automobile Electric Appliances Co.,Ltd.

Performance Parameters							
Ins	ulation Resistance	1000MΩ(1000VDC)					
Dielectric	Between Contacts and Coil	3000VAC 1min					
Withstand Voltage	Between Open Contacts	3000VAC 1min					
Operatin	g Time (at rated voltage)	≤30ms					
Release	Time (at rated voltage)	≤10ms					
l	Stability	196m/s²					
Impact	Strength	490m/s²					
	Vibration	10Hz ~ 500Hz 49m/s²					
	Fumidity	5% ~ 85%RH					
	Temperature	-40°C ~ 85°C					
Fo	rm Of Load Outlet	Internal Thread/External Thread					
	Weight	About 400g					
	Dimensions	See the outline drawing of each model					

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					
9~24V	≤9	≥4.5	When switched on: 26W When holding: 3W					

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

Example Of Order Marking

<u>HFEVC - H</u> <u>Y</u> <u>350</u> / <u>750 - 12 - C</u> <u>N</u> <u>SM</u> - 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 350: 350A

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;

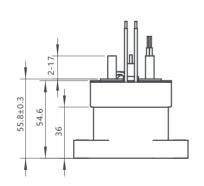
8、With Auxiliary Contact Or Not Blank: Without N: With Normally Open Auxiliary Contacts 9、Installation Mode Blank: Vertical Installation SM: Horizontal Installation

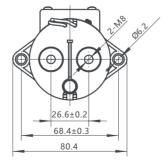
10、Customer Characteristics Code Subject To Customer Requirements

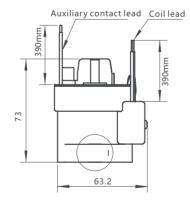
Remarks: (1) special requirements of customers shall be marked in the form of special number after review by our company.

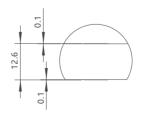
Outline drawing, mounting hole size

Unit: mm



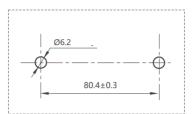




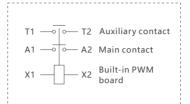


Mounting hole size/Wiring diagram

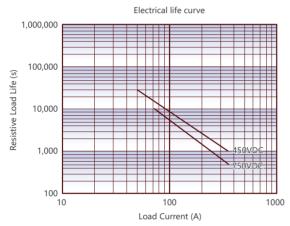
Mounting hole size

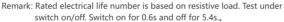


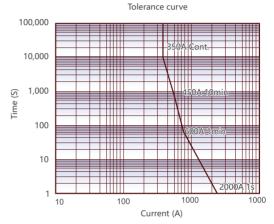
Wiring diagram



Performance graph







Note: The above data is measured under the conditions of ambient temperature 85°C and the sectional area of conductor wire ≥150mm². 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 th	Contactor mounting part			
Installation	Torque requirement	Aperture of copper bar	Copper bar thickness	Installation	Torque requirement
M5 Screw (Internal thread)	3N·m ~ 4N·m	Ø5.0~Ø5.5	5mm	M5 Screw	3N·m ~ 4N·m
M8 Nuts (External thread)	10N·m ~ 12N·m	Ø8.0~Ø8.5	5mm	IVID SCREW	SIN·III ~ 4IN·M

- 2.Please to avoid sticking grease and other foreign bodies on the leading-out piece, and use the connection wire of 150mm² or above, otherwise abnormal heating may be caused at the leading-out end.
- 3. It is suggested that the thickness of copper strip is 5mm, otherwise it will cause the problem of thread sliding teeth or loose installation.



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.