

# VACUUM CONTACTORS - How to Order 200 A - 630 Amps SERIES HVCS-7.2/12J

The series HVCS of high-voltage vacuum contactor are suitable for the distribution system of metallurgy, mine, petro-chemistry and building, to control the equipments used electricity such as high-voltage motor of 6kV or under 6kV, transformer and capacitive loading etc. Especially suitable for frequent operation domain. Because of its small volume, light weight and packaged design of upper and lower arrangement, prevalent in the world. It is convenient to use and maintain, and is easy to form the complete equipment of F-C loop.

## HVCS - X - J - 200 - A

**OPERATING VOLTAGE**  
X - 7.2 kV  
Y - 12 kV

**CONTACT HOLDING METHOD**  
J - Mechanical  
D - Electrical

**COIL VOLTAGE**  
P - 110/120 VDC  
A - 110/120 VAC @ 50/60Hz  
C - 220/230 VAC @50/60Hz

**RATED CURRENT**  
200 - 200A (7.2 kV version only)  
400 - 400A @ 7.2/12kV  
630 - 630A @ 7.2/12kV

### EXAMPLE:

**HVCS-X-J-200-A:** 200A , mechanical holding type 7.2 kV , 200A, 110/120 VAC coil 50/60Hz  
Auxiliary Contacts: 2 NO + 1 NC  
Standard (Contact Factory for additional contacts)

## Technical Data

The series HVCS of High-Voltage Vacuum Contactor are suitable for the Distribution System of Metallurgy, mine, petro-chemistry and building, to control the equipment such as high-voltage electric motor of 6kV and under, transformer and capacitive loading, etc. Especially suitable for frequent operation domain. Because of its small volume, light weight and packaged design of upper and lower arrangement, prevalent in the world. It is convenient to use and maintain, and is easy to form the complete equipment of F-C loop.

Type	HVCS-7.2J			HVCS-7.2J	
Rated Voltage	7.2 kV			12 kV	
Rated Current	200A	400A	630A	400A	630A
Rated Turn-On-Current	2000A	4000A	6300A	4000A	6300A
Rated Interrupted Current (Max)	1600A	3200A	5040A	3200A	5040A
Rated Coil Operating Voltage	110V <sub>DC</sub> , 110/220V <sub>AC</sub>			110V <sub>DC</sub> , 110/220V <sub>AC</sub>	
Contacts Ind. Frequency Bearing Voltage OFF Status	32kV			42kV	
Switch ON Pick-Up Voltage	≤DC 6/3A			≤DC 6/3A	
Coil Current Maintenance	DC 0.32/0.16A			DC 0.32/0.16A	
Switch OFF Coil Trip Current	DC 2.5/1.3A			DC 2.5/1.3A	
Rated Operating Frequency	300Hz			300Hz	
Mechanical Life	30X10 <sup>4</sup> times			30X10 <sup>4</sup> times	
Electrical Life	AC-3	25X10 <sup>4</sup> times		25X10 <sup>4</sup> times	
	AC-4	10X10 <sup>4</sup> times		10X10 <sup>4</sup> times	
Contact Open Space	4.5 <sup>+1</sup> <sub>-0.5</sub> mm.			6 <sup>+1</sup> <sub>-0.5</sub> mm.	
Super Distance	1.5 ± 0.5 mm			1.5 ± 0.5 mm	
Switch ON Average Speed	0.15±0.05mm/s			0.2±0.10mm/s	
Switch OFF Average Speed	0.45±0.15mm/s			0.6±0.1mm/s	
Three Phase Switch ON Synchronism	≤2.0 ms			≤2.0 ms	
Contact Spring Time	≤5.0 ms			≤5.0 ms	
Switch On Time	≤150 ms			≤150 ms	
Fixed Switch OFF Time	≤50 ms			≤50 ms	
Conductive Circuit Resistance	≤250 μΩ			≤250 μΩ	
Contact Spring Length (Switch ON)	36±1mm			36±1mm	
Weight	28 kg			32 kg	

## Auxiliary Contacts

Rated Operating Voltage	AC 220V	DC 220V
Rated Operating Current	6A	6A
Service Life (Times x10 <sup>4</sup> )	Mech ≥5	
	Elect ≥2	
Usage Mode	DC11	AC 11
Rated Operating Current	4A DC	
	0.4A AC	