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# Vacuum Circuit Breaker

**TYPE of VCB :**  
**GENERAL VCB / MCSG VCB / MAGNETIC ACTUATOR VCB**



**JOONGWON Co., Ltd.**

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The current breaking time is very short, and the insulation recovery features are wonderful. It also presents the most stable breaking performance with no potential danger of restrike or reignition.

Its outstanding electrical and mechanical durability makes it unnecessary special repair or maintenance even for a long-term use. There are various options including the fixed and the draw-out type. And it's easy to install, repair and check thanks to the compact design.

Its top durability is guaranteed with more than 10,000 times of operation tests, which makes it the perfect breaking choice for a situation requiring frequent breaking.

ITEM	JWV 708	JWV 712	JWV720 -630	JWV720 -1250	JWV731 -630	JWV731 -1250	JWV731 -2000	Unit
Mounting Method	Fixed, Draw-out, F class							
Rated Voltage	3.6 / 7.2							kV
Rated Normal Current	400	630	630	1250	630	1250	2000	A
Rated Power Frequency	50 / 60							Hz
Rated Short-Circuit Breaking Current	8	12.5	25		31.5			kA
Rated Short-Circuit Making Current	20	32	65		81			kA
Rated Short-Time and Peak Withstand Current	8	12.5	25		31.5			kA
Rated Power Frequency Withstand Voltage	20							kV
Rated Lightning Impulse Withstand Voltage	60 (1.2×50μs)							kV
No-Load Closing Time	≤ 0.1							sec
Opening Time	≤ 0.1							sec
Rated Short Circuit Breaking Time	3							cycle
Operating Duty	O – 0.3 sec – CO – 3 min – CO							
Applied Standard	IEC 62271-100							
Closing & Tripping Operated Method	PMA		Stored energy (by spring), Shunt trip					
Rated Closing Control Voltage	DC 110		AC / DC 110					V
Rated Tripping Control Voltage	DC 110		AC / DC 110					V
Rated Closing Control Current	≤ 20		≤ 5					A
Rated Tripping Control Current	≤ 20		≤ 5					A
Aux. Contact	4a4b(normal), 7a7b(option)							
Mechanical Endurance	M2(10,000)				M1(2,000) / M2(10,000)			times
Electrical Endurance	E1							
Restrike Class	C2							
Cable Charging Current	10							A

## Ratings

ITEM	JWV1525-630	JWV1525-1250	JWV1525-2000	Unit
Mounting Method	Fixed, Draw-out, F class			
Rated Voltage	24			kV
Rated Normal Current	630	1250	2000	A
Rated Power Frequency	50 / 60			Hz
Rated Short-Circuit Breaking Current	25			kA
Rated Short-Circuit Making Current	62,5			kA
Rated Short-Time and Peak Withstand Current	25			kA
Rated Power Frequency Withstand Voltage	36			kV
Rated Lightning Impulse Withstand Voltage	95 (1,2×50μs)			kV
No-Load Closing Time	≤ 0,1			sec
Opening Time	≤ 0,1			sec
Rated Short Circuit Breaking Time	5			cycle
Operating Duty	O – 0,3 sec – CO – 3 min – CO			
Applied Standard	IEC 62271-100			
Closing Operated Method	Stored energy (by spring)			
Tripping Operated Method	Shunt trip			
Rated Motor Control Voltage	AC / DC 110			V
Rated Closing Control Voltage	AC / DC 110			V
Rated Tripping Control Voltage	AC / DC 110			V
Rated Motor Control Current	≤ 5			A
Rated Closing Control Current	≤ 5			A
Rated Tripping Control Current	≤ 5			A
Aux. Contact	4a4b(normal), 7a7b(option)			
Mechanical Endurance	M2(10,000)			times
Electrical Endurance	E1			
Restrike Class	C2			
Cable Charging Current	25			A

ITEM	JWV2412-630	JWV2412-1250	JWV2425-630	JWV2425-1250	JWV2425-2000	Unit
Mounting Method	Fixed, Draw-out, F class					
Rated Voltage	24					kV
Rated Normal Current	630	1250	630	1250	2000	A
Rated Power Frequency	50 / 60					Hz
Rated Short-Circuit Breaking Current	12,5		25			kA
Rated Short-Circuit Making Current	32,5		65			kA
Rated Short-Time and Peak Withstand Current	12,5		25			kA
Rated Power Frequency Withstand Voltage	60					kV
Rated Lightning Impulse Withstand Voltage	125 (1,2×50μs)					kV
No-Load Closing Time	≤ 0,1					sec
Opening Time	≤ 0,1					sec
Rated Short Circuit Breaking Time	5					cycle
Operating Duty	O – 0,3 sec – CO – 3 min – CO					
Applied Standard	IEC 62271-100					
Closing Operated Method	Motor operating					
Tripping Operated Method	Shunt trip					
Rated Motor Control Voltage	AC / DC 110					V
Rated Closing Control Voltage	AC / DC 110					V
Rated Tripping Control Voltage	AC / DC 110					V
Rated Motor Control Current	≤ 5					A
Rated Closing Control Current	≤ 5					A
Rated Tripping Control Current	≤ 5					A
Aux. Contact	4a4b(normal), 7a7b(option)					
Mechanical Endurance	M2(10,000)					times
Electrical Endurance	E1					
Restrike Class	C2					
Cable Charging Current	31,5					A

## Ratings

ITEM	JWVMS 154012	JWVMS 154020	JWVMS 154025	JWVMS 154031	JWVMS 242506	JWVMS 242512	JWV2412 -630	JWVMS 2525	Unit
Mounting Method	G class						Fixed Draw-out F class	Earthing Switch	
Rated Voltage	15 (12)				25,8		24	25,8	kV
Rated Normal Current	1250	2000	2500	3150	630	1250	630	—	A
Rated Power Frequency	50 / 60								Hz
Rated Short-Circuit Breaking Current	40				25		12,5	—	kA
Rated Short-Circuit Making Current	104(100)				65		32,5	—	kA
Rated Short-Time and Peak Withstand Current	40				25		12,5	—	kA
Rated Power Frequency Withstand Voltage	28				60			kV	
Rated Lightning Impulse Withstand Voltage	125 (1.2×50μs)								kV
No-Load Closing Time	≤ 0,1							—	sec
Opening Time	≤ 0,1							—	sec
Rated Short Circuit Breaking Time	3							—	cycle
Operating Duty	O – 0,3 sec – CO – 3 min – CO							—	
Applied Standard	IEC 62271–100							IEC 62271–102	
Closing Operated Method	Stored energy (by spring)						PMA	—	
Tripping Operated Method	Shunt trip						PMA	—	
Rated Motor Control Voltage	AC / DC 110						—	—	V
Rated Closing Control Voltage	AC / DC 110						DC 100	—	V
Rated Tripping Control Voltage	AC / DC 110						DC 100	—	V
Rated Motor Control Current	≤ 5						—	—	A
Rated Closing Control Current	≤ 5								A
Rated Tripping Control Current	≤ 5							—	A
Aux. Contact	4a4b(normal), 7a7b(option)								
Mechanical Endurance	M2(10,000)							—	times
Electrical Endurance	E1							—	
Restrike Class	C2							—	
Cable Charging Current	25				31,5		—	A	



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