



Indoor and outdoor
vacuum circuit breaker series

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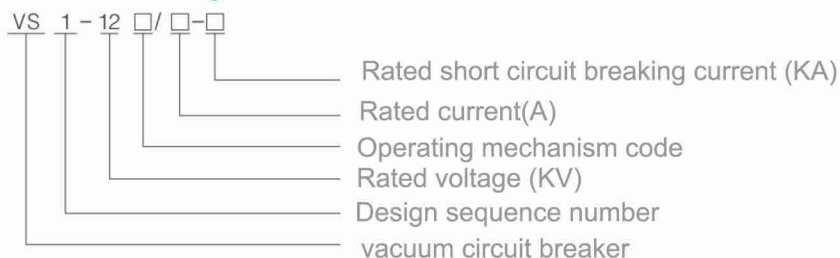
VS1-12

Indoor high voltage vacuum circuit breaker/side mounted type

Summarize

VS1-12 series indoor installed high voltage vacuum circuit breaker is indoor high voltage switchgear, suitable for use in three-phase power system with rated voltage 12KV and frequency 50HZ, as a protection and control appliance. Due to the special advantages of vacuum circuit breaker, it is especially suitable for frequent operation of rated current, or many times to break the short circuit current.

Model meaning



Normal service environment

Ambient temperature: not higher than 40°C, not lower than -10°C (allowed at -30°C storage and transportation).
Altitude: not more than 1000m.(If it is necessary to increase the altitude, the rated insulation level will be increased accordingly).

Relative humidity: the daily average is not more than 65%, the daily average saturated steam pressure is 2.2X10⁻³MPa, the monthly average is not more than 1.8X10⁻³MPa.

Earthquake intensity: not more than 8

Places without fire, explosions, severe pollution, chemical corrosion and violent vibration.

Vacuum circuit breaker main technical parameters

Name	Unit	Parameter		
Rated voltage	kV	12		
Maximum working voltage	kV	12		
Rated current	A	630	630 1250	1250 1600
		1250	1600 2000 2500 3150	2000 2500 3150 4000
Rated short-circuit opening current (rated thermal stable current - RMS)	kA	20/25	31.5	40
Rated short-circuit photosynthetic current (peak)	kA	50/63	80	100
Rated peak withstand current (rated dynamic stable current - peak)	kA	50/63	80	100
4s rated short-circuit withstand current	kA	20/25	31.5	40
Rated insulation level	Working voltage (rated before and after breaking) / 1min power frequency withstand voltage kV	Grounding 42(fracture 48)		
		Grounding 75(fracture 85)		
Rated thermal stability time	s	4		
Rated operating sequence		Opening-0.3s-opening closing-180s-opening closing		
mechanical life	Times	20000		
Rated short circuit breaking current breaking times	Times	50		
Rated closing voltage of operating mechanism (DC)	V	AC、DC 110, 220		
Rated switching voltage of operating mechanism (DC)	V	AC、DC 110, 220		
clearance between open contacts	mm	11 ± 1		
Overstroke((contact spring compression length)	mm	3.5 ± 0.5		
Three phase opening, closing bounce time	ms	≤ 2		
Contact opening closing bounce time	ms	≤ 2		
Average opening speed	m/s	0.9~1.2		
Average closing speed	m/s	0.5~0.8		
Opening time	At the highest operating voltage	≤ 0.05		
	At the lowest operating voltage	≤ 0.08		
Closing time	s	0.1		
Main circuit resistance of each phase	μ Ω	630 ≤ 50	1250 ≤ 45	
Allowable wear accumulation thickness of dynamic and static contacts	mm	3		

outline overall and installing dimensions

