

## VS1-12/24 Indoor Vacuum Circuit Breaker (Side Installation)

### Summary

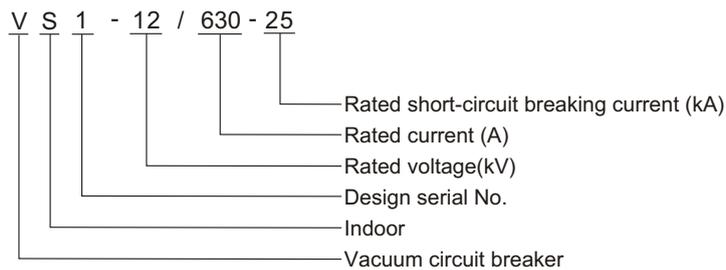
VS1-12/24 indoor side-mounting AC and High-voltage VCB is a type of indoor switchgear applied to electric system of rated voltage 7.2~12kV, three-phase 50/60Hz to protect and control apparatus. It is especially applicable in occasion with frequent operation; it can break short-circuit continuously. This HV VCB is of fixed mounting, mainly used in stationary switch cabinet. It can work separately or in ring network power supply, prefabricated substation as well as in non-standard power supply system.



### Ambient condition

1. Altitude:  $\leq 1000\text{m}$ ;
2. Ambient temperature:  $-25^{\circ}\text{C}\sim+40^{\circ}\text{C}$ ;
3. Relative humidity: daily average  $\leq 95\%$ , monthly average  $\leq 90\%$ ;
4. Earthquake intensity:  $\leq 8$  degree;
5. Applicable occasions should free from inflammables, explosives, corrosives and severe vibration.

### Model



### Product feature

The arc-chamber can be mounted in common insulation bushing, or encapsulated within epoxy resin by APG technology. The VCB features with small volume, aesthetic appearance, reliable operation and long mechanical life.

### Technical specification

No.	Item		Unit	Data		
1	Rated voltage			12/24		
2	Rated insulation level	Rated short-time P.F. withstand voltage(1min.)	kV	42		
3		Rated lightning impulse withstand voltage(peak)		75		
4	Rated power frequency		Hz	50/60		
5	Rated current		A	630,1250	630,1250	1250
6	Rated short-circuit breaking current		kA	20	25	31.5
7	Rated short-time withstand current			20	25	31.5
8	Rated peak withstand current			50	63	80
9	Rated short-circuit making current(peak)			50	63	80
10	4s thermal steady current			20	25	31.5
11	Rated movable steady current			50	63	80
12	Rated capacitor bank making current			12.5(frequency not higher than 1000Hz)		
13	Rated unit/capacitor bank breaking current		A	630/400		

14	Rated short-circuit duration	s	4	
15	P.F. withstand voltage for secondary loop		2000	
16	Rated operating voltage	Making winding	V	AC110/220, DC110/220
		Breaking winding		AC110/220, DC110/220
		Storage motor		AC110/220, DC110/220
17	Breaking time of rated voltage	ms	20~50	
18	Making time of rated voltage		35~70	
19	Wearing thickness of moving & fixing contacts	mm	≤3	
20	Storage time	s	≤15	
21	Contact opening distance	mm	11 ± 1	
22	Contact travel		3~4	
23	Contact closing tripping time	ms	≤2	
24	Three-phase closing and opening asynchronous		≤2	
25	Average opening speed	ms	0.9~1.3	
26	Average closing speed		0.4~0.8	
27	Contact opening rebound	mm	≤3	
28	Main circuit resistance	μΩ	≤50(630A)	
			≤45(1250A)	
29	Contact closing press	N	3100 ± 200(31.5kA)	
30	Rated operating sequence		O-0.3s-CO-180s-CO	

## Outline dimension

