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1. General

HVD1-12(VS1-12) type indoor AC HV vacuum circuit breaker (hereinafter referred to as circuit breaker) are suitable for 12kV air-insulated indoor switchgears, used as protection and control unit of power equipment of industrial& mining enterprise. Due to the super excellence, it is especially for location where requires the frequent operation of rated working current or multi breaking short circuit current.

The circuit breaker adopts the integrated design of operating mechanism and circuit breaker body, servers as not only fixed installation, but also the handcart unit through equipping with a special propelling mechanism.

2. Service conditions

3.1 Environment temperature: $-15^{\circ}\text{C} \sim +40^{\circ}\text{C}$;

3.2 Environment humidity: Daily average relative humidity: $\leq 95\%$, monthly average relative humidity: $\leq 90\%$; Daily average saturated vapor pressure: $\leq 2.2 \times 10^{-3}\text{Mpa}$, monthly average saturated vapor pressure: $\leq 1.8 \times 10^{-3}\text{Mpa}$;

3.3 Altitude: Not exceed 1000m;

3.4 Earthquake intensity: Not exceed II° ;

3.5 Service location: No water, flammable or explosive matter, chemical corrosive gas or drastic vibration.

1. Main specifications and technical parameters

NO.	Item	Unit	Parameter			
1	Rated voltage	KV	12			
2	Rate voltage	Hz	50			
3	Rated lightning impulse withstand voltage(1min)	KV	75			
4	Rated short-time power frequency withstand voltage (1min)	KV	42			
5	Rated short-circuit breaking current	KA	20	25	31.5	40
6	Rated current	A	630 1000 1250	630 1000 1250 1600	1250 1600 2000 2500	1600 2000 2500 3150
7	Rated peak withstand current	KA	50	63	80	100
8	Rated shorted-time withstand current	KA	20	25	31.5	40
9	Rated shorted-time making current(peak)	KA	50	63	80	100
10	Power frequency withstand voltage of secondary circuit (1min)	V	2000			
13	Opening time(rated voltage)	ms	20~50			
14	Closing time(rated voltage)	ms	30~70			
15	Rated short-circuit current breaking times	times	50(40kA 30)			
16	Mechanical life	times	30000			