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1. Introduction

HVD7-40.5 outdoor HV AC vacuum circuit breaker has many visual advantages like reasonable design, fashionable appearance, high safety and reliability, simple maintenance, long electric life. It is the ideal upgraded products of 35KV outdoor oil circuit breakers.

HVD7-40.5 vacuum circuit breaker is applicable for three-phase power system of AC 50HZ.It is used to make and break the load current ,overload current and short-circuit current.

2. Applicable environment

3.1The ambient temperature should be $-30^{\circ}\text{C} \sim +40^{\circ}\text{C}$ (-40°C in the frosty area);

3.2Altitude should not exceed 2000m(over 2000m is plateau type);

3.3The wind pressure should not exceed 700Pa(equal to wind speed 34m/s);

3.4Air pollution degree: III,that of antifouling type:VI;

3.5The installation site should be free from the fire, explosion, chemical corrosion and serious vibration.

1. Main technical parameters

No.	Item			Unit	Date		
1	Rated voltage			KV	40.5		
2	Rated insulation level	1min power frequency withstand voltage	Dry test	KV	95		
			Wet test		80		
		Lightning impulse withstand voltage（peak value）			185		
3	Rated current			A	1600		2000
4	Rated short-circuit breaking current			KA	20	25	31.5
5	Rated short-circuit making current（peak）			KA	50	63	80
6	Rated operating sequence				O-0.3s-CO-180s-CO		
7	Rated short-time withstand current			KA	20	25	31.5
8	Rated peak withstand current			KA	50	63	80
9	Rated short-circuit duration			S	4		
10	Rated control voltage			V	AC220,110;DC220,110		
11	Rated short-circuit breaking current break times			Times	20		
12	Full-break time			ms	≤80		
13	Mechanical life			Times	10000		