



SVX 40.5 Vacuum Circuit Breaker



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Product Usage

SVX40.5 series vacuum circuit breaker is a three-phase AC 50Hz, 60Hz, rated voltage 40.5Kv high-voltage switchgear, widely used in power plants, power grids, metallurgy, petrochemical, urban infrastructure and other supporting fields.

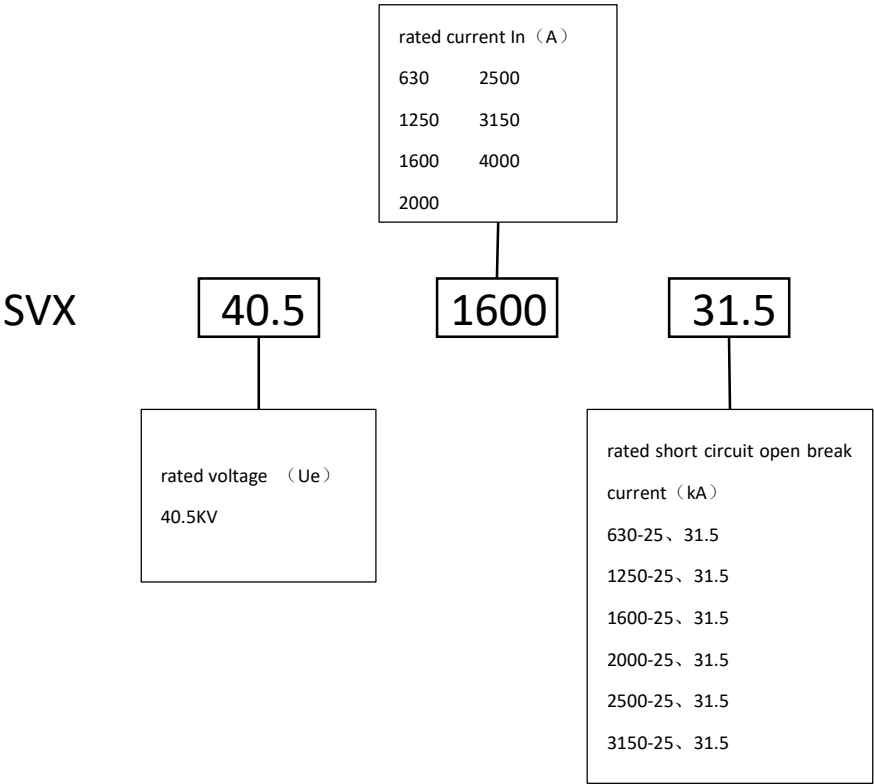
Features

- 1. Adopting excellent performance solid-sealed pole technology.
- 2. Single module integrated spring operating mechanism.
- 3. Imported rectangular cross-section steel wire spring, good stability and longer life.

Normal use conditions

- 1. Normal operating ambient temperature: -15℃~+40℃, and the average value measured within 24 hours does not exceed 35℃.
- 2. Altitude: The highest altitude of the equipment installation site is ≤2000m.
- 3. Ambient humidity: The average relative humidity measured within 24 hours is ≤95%; the monthly average relative humidity is ≤90%.
- 4. Earthquake intensity: The earthquake intensity of the equipment installation site is ≤ 8 degrees.
- 5. The average value of water vapor pressure measured within 24 hours is ≤2.2kPa; the monthly average value of water vapor pressure is ≤1.8kPa.
- 6. Special environment: The surrounding air is not obviously polluted by dust, smoke, corrosive or flammable gas, steam or salt spray.

Quick Selection Table



Technical Parameters

model	SVX											
Rated voltage (Kv)	40.5											
Rated short-time power frequency withstand voltage (1min) (Kv)	95											
Rated lightning impulse withstand voltage (peak value) (Kv)	185											
Rated frequency (Hz)	50/60											
Rated current (A)	630		1250		1600		2000		2500		3150	
Rated short-circuit breaking current (KA)	25	31.5	25	31.5	25	31.5	25	31.5	25	31.5	25	31.5
Rated short-time withstand current (KA)	25	31.5	25	31.5	25	31.5	25	31.5	25	31.5	25	31.5
Rated peak withstand current (KA)	63	80	63	80	63	80	63	80	63	80	63	80
Rated short-circuit making current (KA)	63	80	63	80	63	80	63	80	63	80	63	80
Secondary circuit power frequency withstand voltage (V)	2000											
Rated single/back-to-back capacitor bank switching current (A)	630/400											
Opening time (rated voltage) (ms)	20~60											
Closing time (rated voltage) (ms)	40~100											
Mechanical life (times)	20000											
Rated current breaking times (times)	50											
Allowable cumulative wear thickness of moving and static contacts (mm)	3											
Rated closing operating voltage (V)	AC110/220 DC110/220											
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Energy storage motor rated voltage(V)	AC110/220 DC110/220											
Energy storage time (s)	≤ 12											
Contact opening distance (mm)	20±2											
Overtravel (mm)	6±2											
Contact closing bounce time (ms)	≤ 3											
Three-phase opening and closing in different periods	≤ 2											
Average opening speed (contact separation ~10mm) (m/s)	1.8±0.2											
Average closing speed (m/s)	0.65±0.15											
Contact opening rebound amplitude (mm)	≤ 4											
Rated operating sequence	O-0.3s-CO-180s-CO											

Dimensions

