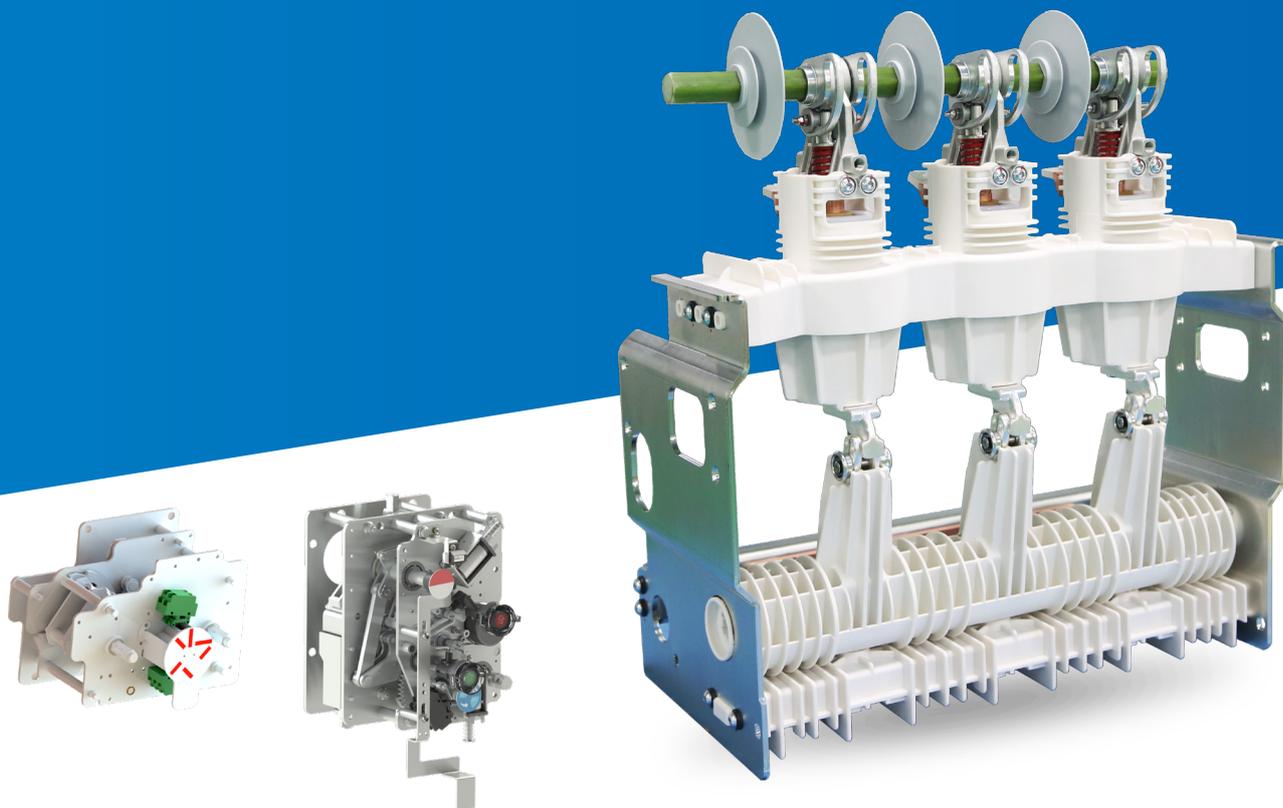


SPB V SERIES SEMI-SOLID SEALED SF6-FREE SWITCH



Operating Condition

Ambient air temperature:

Maximum temperature +40° C, minimum temperature -40° C (permitted for storage and transport at -40° C);

Humidity:

Average daily relative humidity \leq 95%;

Average monthly relative humidity <90%.

Place of use:

The ambient air must not be significantly contaminated by dust, smoke, corrosive gases, combustible gases, vapours, or salt mist. The location must be free from fire or explosion hazards, severe soiling, severe chemical corrosion, and intense vibration. Seismic intensity: not exceeding 8 degrees;

Altitude:

Suitable for use below 4000 metres; when installing the product at altitudes exceeding 1000 metres above sea level, this must be specifically noted to enable the manufacturer to adjust the product during production.



Product Features

-  Suitable for 12kV SF6-FREE RMU
-  Modular structure, compliant with State Grid Specifications
-  Dry air, nitrogen or mixed gases as insulating medium
-  Switch insulating components use environmental friendly plastic
-  VI use a three-phase integrated moulded structure, ensuring reliability

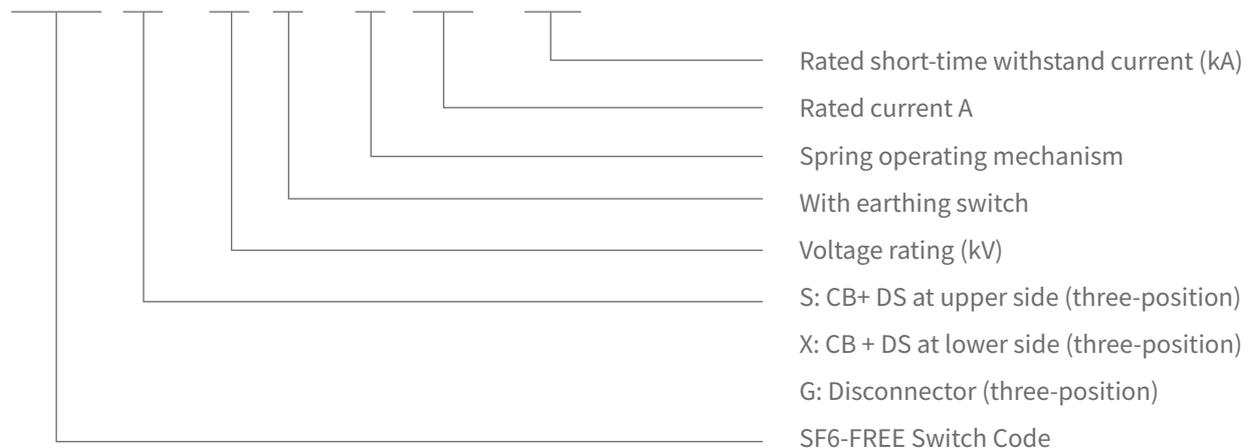
Standards

GB/T 1984	—————	High voltage AC circuit breaker
GB/T 1985	—————	High-voltage alternating-current disconnectors and earthing switches
GB/T 3906	—————	Alternating-current metal-enclosed switchgear and controlgear for rated voltages above 3.6 kV and up to and including 40.5 kV
GB/T 11022	—————	Common specifications for high-voltage switchgear and controlgear standards
GB/T 16927.1	—————	High-voltage test techniques - Part 1: General definitions and test requirements
DL/T 402	—————	High-voltage alternating-current circuit-breakers
DL/T 486	—————	High Voltage AC Disconnectors and Earthing Switches
DL/T 593	—————	Common specifications for high-voltage switchgear and controlgear standards

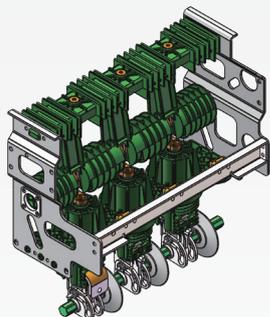
Model Composition and Meaning

Note: Please contact our company if require test type.

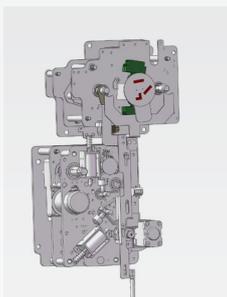
SPBV □ - 12 D / T 630 - 20



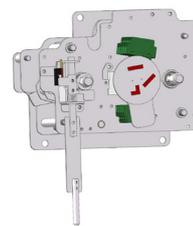
SEMI-SOLID SEALED SF6-FREE CB & MECHANISM



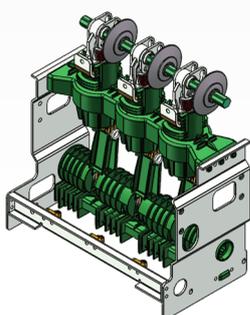
CB Switch (DS at the up side)
SPB VS-12D/T630-20



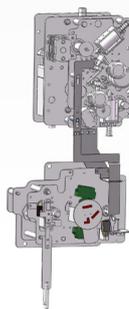
SF6-FREE DS Mechanism SPET(VS)-SG
SF6-FREE CB Mechanism SPD07 III (VS)(AFT)J(FZ6)



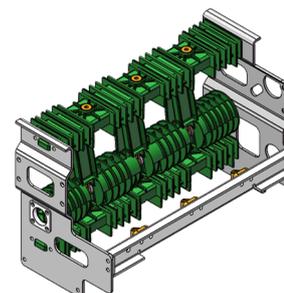
SF6 PT DS Mechanism
SPET(PT)-SG



CB Switch (DS at the down side)
SPB VX-12D/T630-20



SF6-FREE DS Mechanism SPD07 III (VX)(AFT)J(FZ6)
SF6-FREE CB Mechanism SPET(VX)-SG



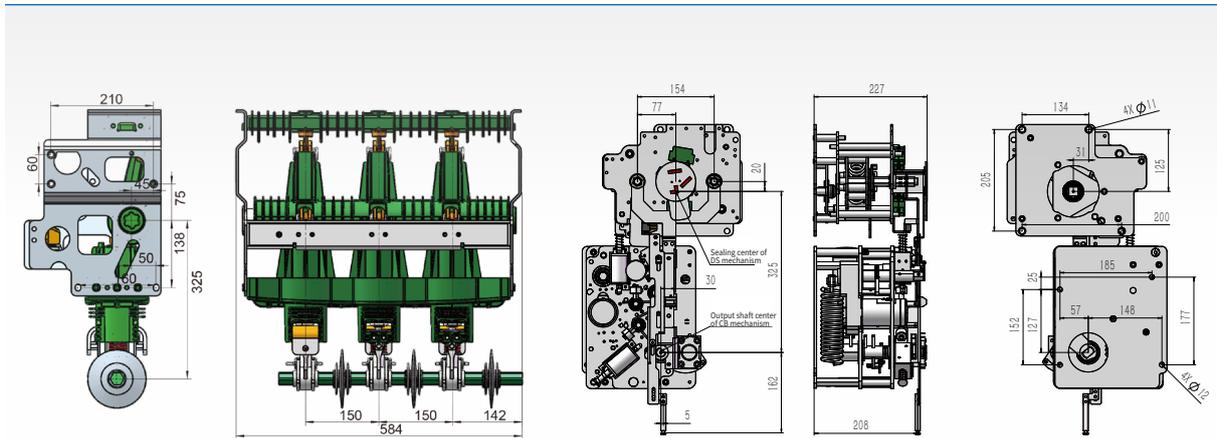
SF6 PT Disconnecter
SPB V G-12D/T630-20

Technical Parameters

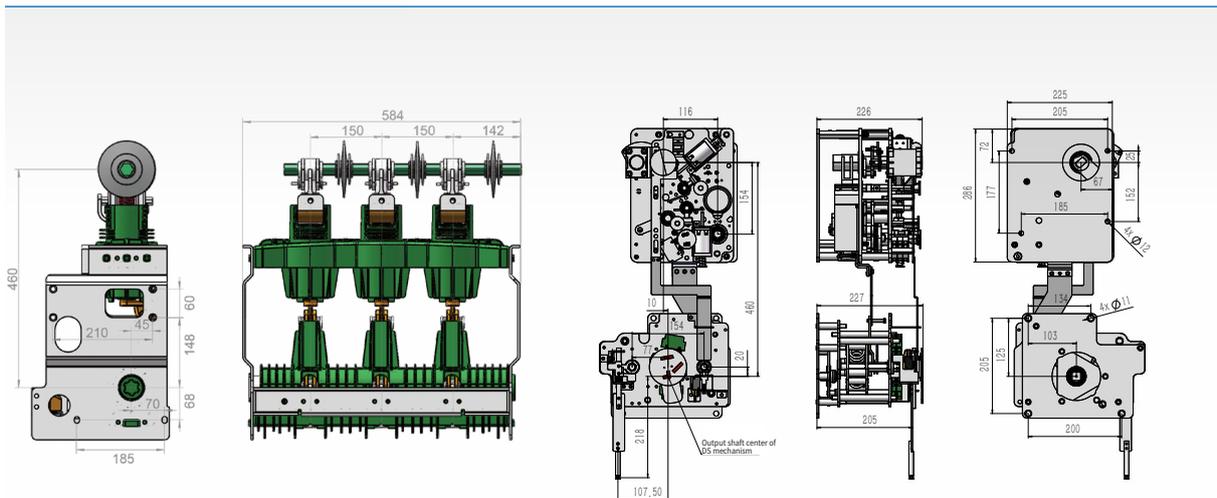
ITEM		UNIT	PARAMETER
Rated voltage		kV	12
Rated current		A	630
Rated frequency		Hz	50
Power frequency withstand voltage (1min)	Phase to Phase/ Phase to Earth	kV	42
	Across the isolating distance		48
Lightning impulse withstand voltage	Phase to Phase/ Phase to Earth	kV	75
	Across the isolating distance		85
Rated peak withstand current		kA	50
Rated short-time withstand current		kA/s	20/4
Rated short-circuit breaking current		kA	20
Rated short-circuit making current		kA	50
Rated number of short-circuit current		Operating cycles	30
Circuit breaker + disconnecter resistance		$\mu\Omega$	≤ 60
Disconnecter resistance			≤ 40
Partial discharge value (1.2Ur)		pC	≤ 5
Mechanical endurance	Circuit breaker	Operating cycles	10000
	Disconnecter		3000
	Earthing switch		3000

Semi-Solid Switch & Operating Mechanism Dimensions

Circuit Breaker Solution (Disconnecter at the up side)



Circuit Breaker Solution (Disconnecter at the down side)



PT Disconnecter Solution

