

# SPB I SERIES FIBER TYPE 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;

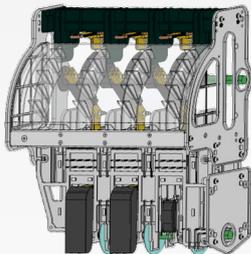
### Altitude:

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.

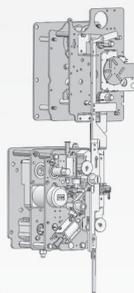




## SPB I Series Fiber type SF6-FREE CB & MECHANISM



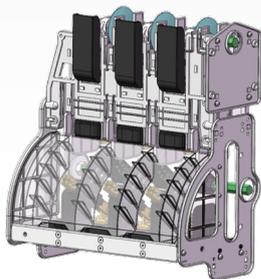
CB Switch (DS at the up side)  
SPB I VS-12D/630-20



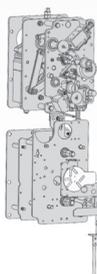
SF6-FREE DS Mechanism SPET I SG332 (SL)  
SF6-FREE CB Mechanism SPD07 III (AFT)J (FZ6)/SL (10 I)



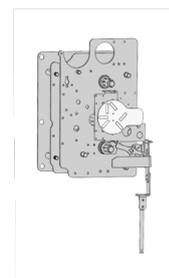
PT Disconnecter  
SPB I G-12D/630-20



CB Switch (DS at the down side) SF6-FREE DS Mechanism SPD07 III (AFT)J (FZ6) (XL10 I)  
SPB I VX-12D/630-20



SF6-FREE CB Mechanism SPET I SG332 (XL)



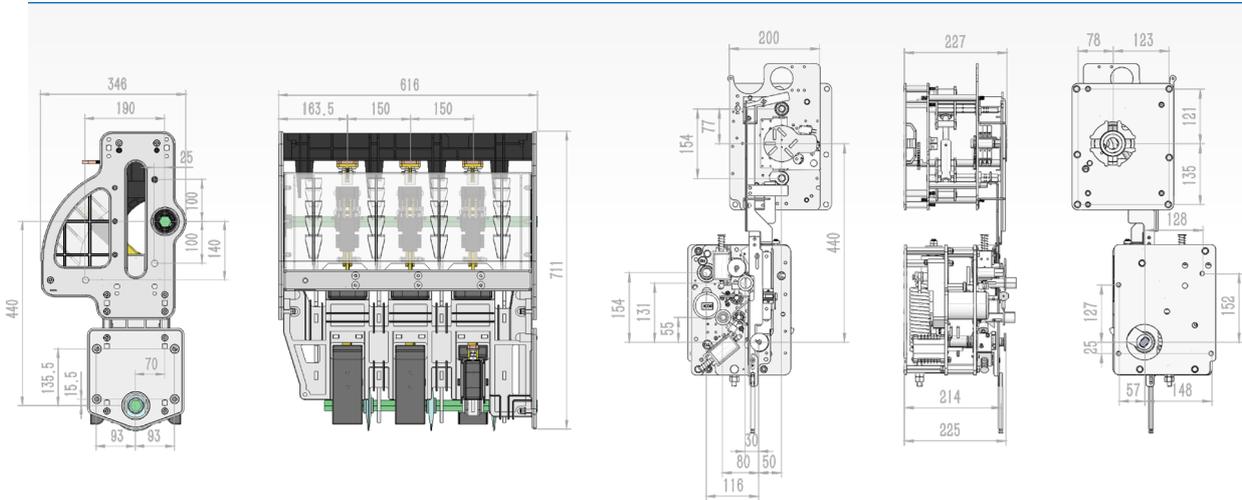
SF6-FREE PT DS Mechanism  
SPET I SG332

## Technical Parameters

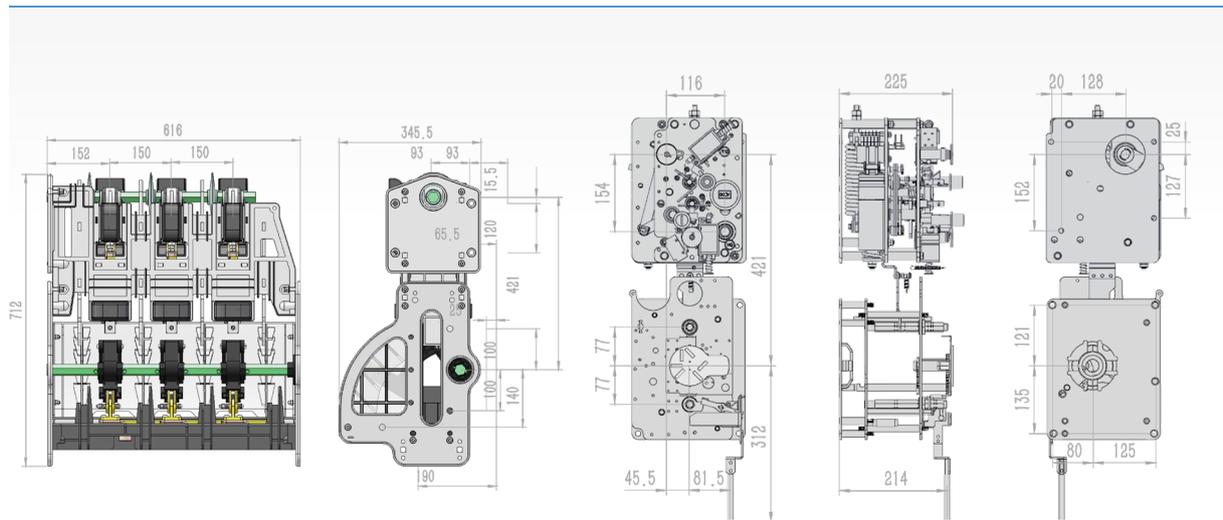
ITEM	UNIT	PARAMETER	
Rated voltage	kV	12	
Rated current	A	630	
Rated frequency	Hz	50	
Power frequency withstand voltage (1min)	Phase to Phase/ Phase to Earth Across the isolating distance	kV	42 48
	Lightning impulse withstand voltage	Phase to Phase/ Phase to Earth Across the isolating distance	kV
Rated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

## Fiber Type Switch & Operating Mechanism Dimensions

Circuit Breaker Solution (Disconnecter at the up side)



Circuit Breaker Solution (Disconnecter at the down side)



PT Disconnecter Solution

