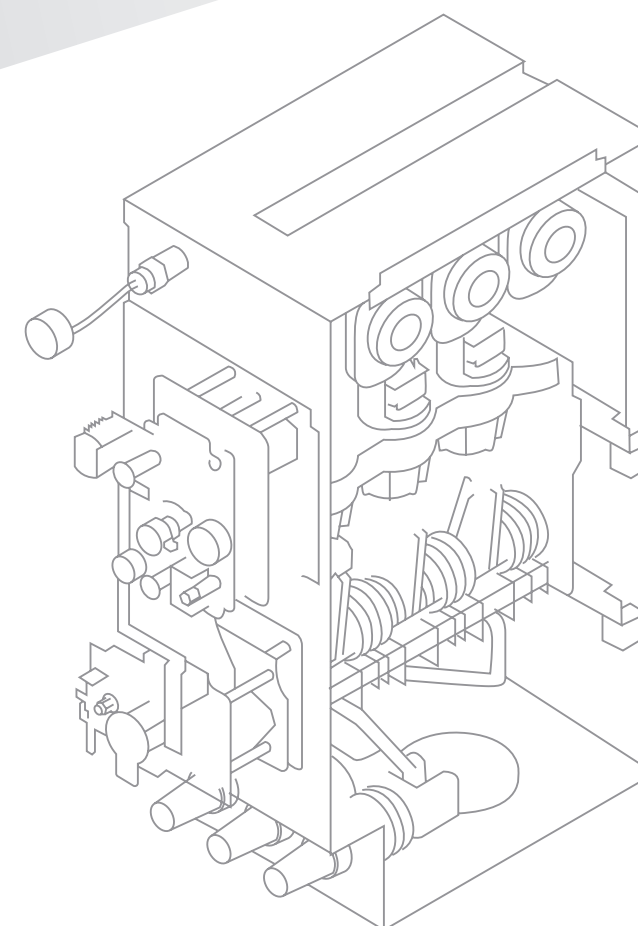


CB & MECHANISM SELECTION MANUAL FOR RING MAIN UNIT (RMU)



ZIVA ELECTRIC LTD

Address: 23 Craddock St, Vaughan, Ontario L6A 2R9, Canada

Phone: 437-603-1137

Email: info@zivaelectric.com

CONTENT

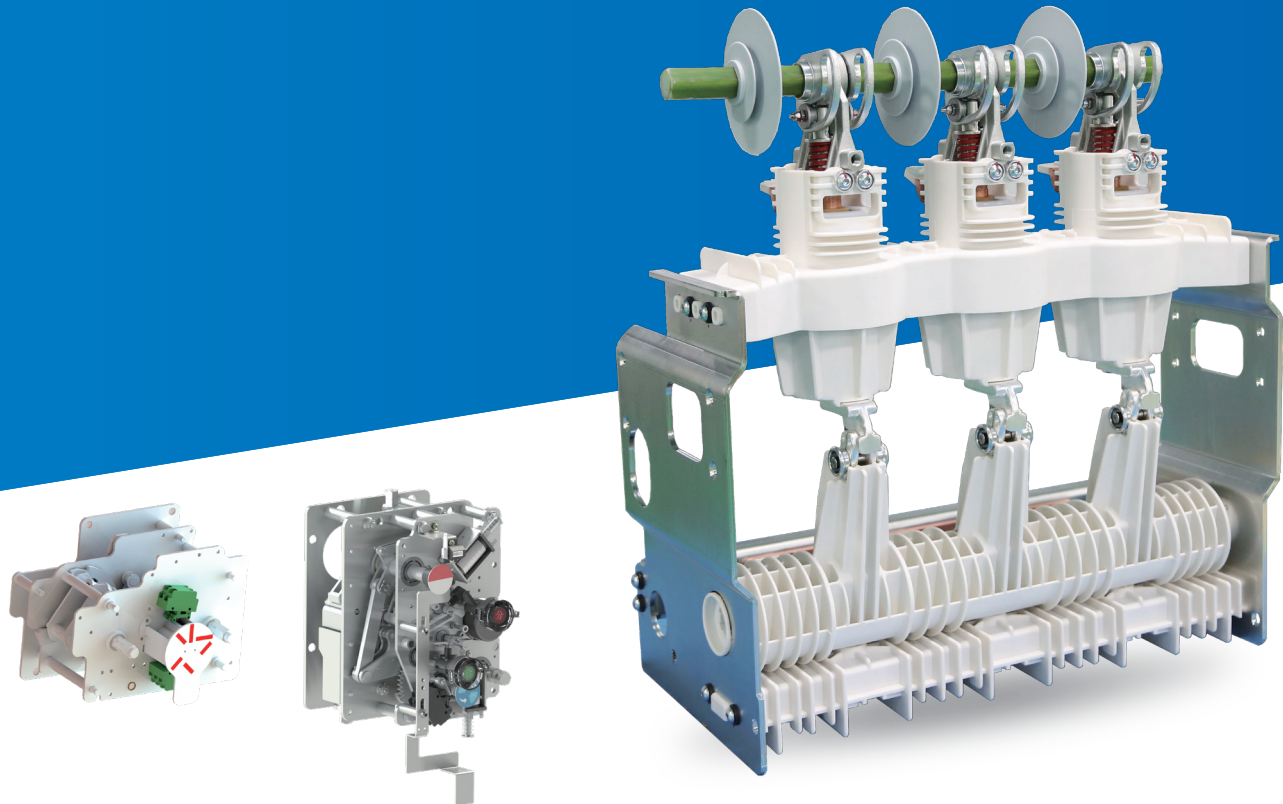
02 - 05	SPB V SERIES SEMI-SOLID SEALED SF6-FREE SWITCH
06 - 09	SPB I SERIES FIBER TYPE SF6-FREE SWITCH
10 - 13	SPB SERIES SF6-FREE RMU SOLUTION
14 - 15	SPF SERIES SF6 RMU CIRCUIT BREAKER (25kA)
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19 - 20	SPF SERIES SF6 RMU CIRCUIT BREAKER (20kA)
21 - 23	SPF SERIES SF6 RMU LOAD BREAK SWITCH (20kA)
24 - 27	SPB SERIES SF6 RMU SOLUTION



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 ≤ 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

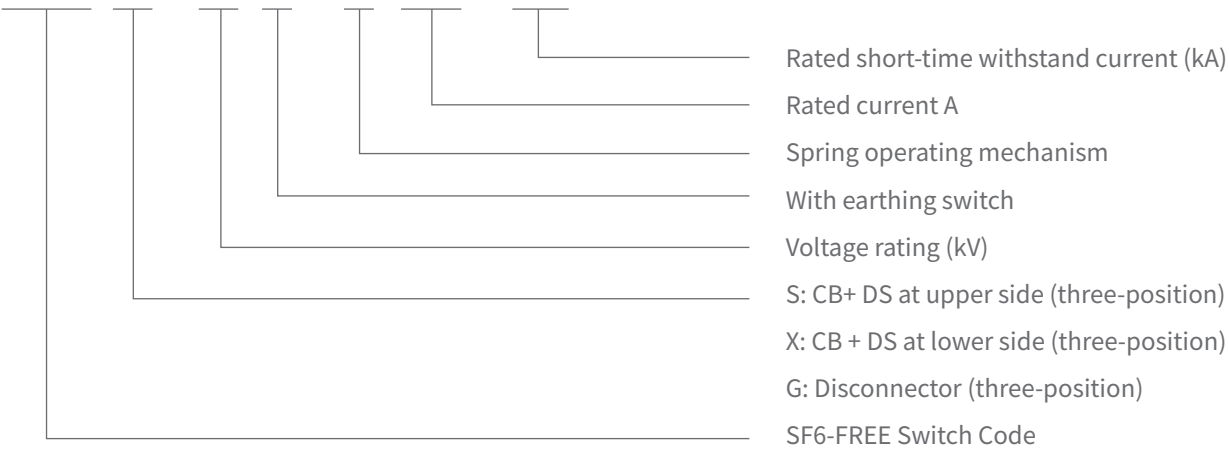
Standards

- 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

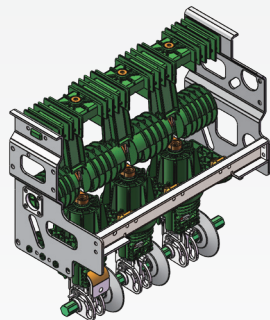
Model Composition and Meaning

Note: Please contact our company if require test type.

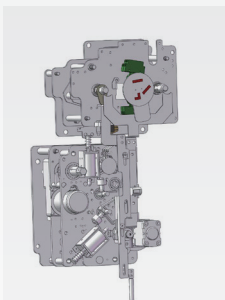
SPBV □ - 12 D / T 630 - 20



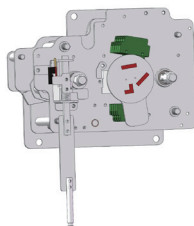
SEMI-SOLID SEALED SF6-FREE CB & MECHANISM



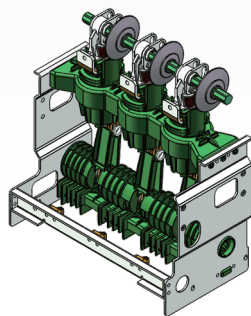
CB Switch (DS at the up side)
SPB VS-12D/T630-20



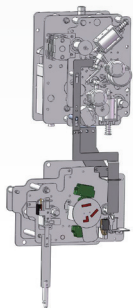
SF6-FREE DS Mechanism SPET(VS)-SG
SF6-FREE CB Mechanism SPD07 III (VS)(AFT)J(FZ6)



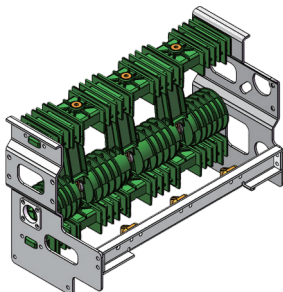
SF6 PT DS Mechanism
SPET(PT)-SG



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



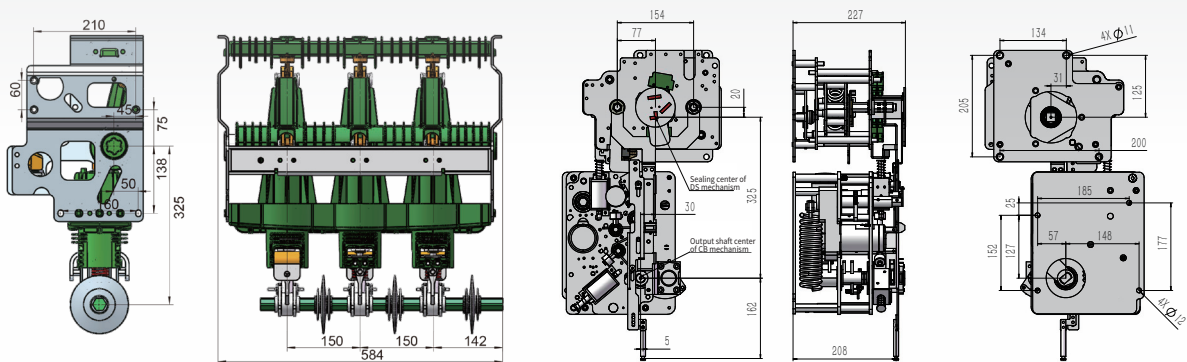
SF6 PT Disconnecter
SPB V G-12D/T630-20

Technical Parameters

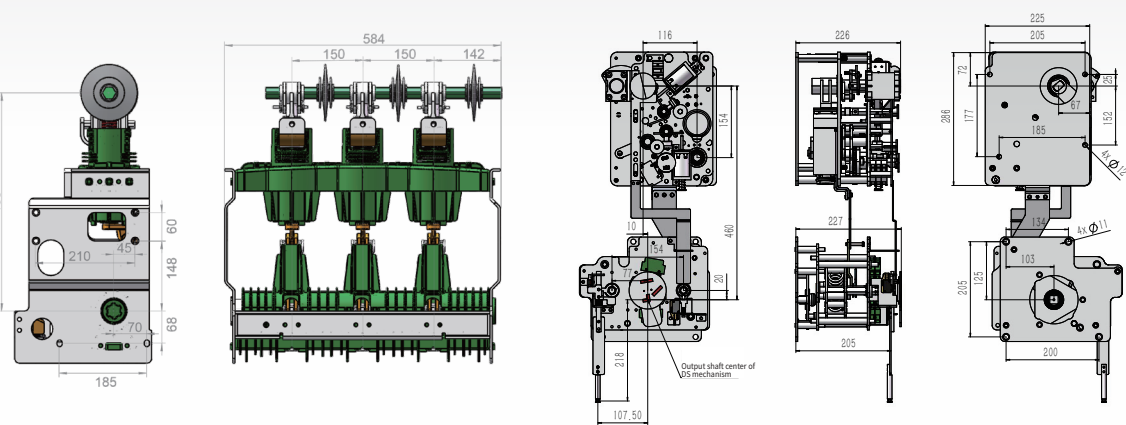
ITEM		UNIT	PARAMETER
Rated voltage		kV	12
Rated current		A	630
Rated frequency		Hz	50
Power frequency withstand voltage (1min)	Phase to Phase/ Phase to Earth	kV	42
	Across the isolating distance		48
Lightning impulse withstand voltage	Phase to Phase/ Phase to Earth	kV	75
	Across the isolating distance		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 + disconnector resistance		μΩ	≤ 60
Disconnector resistance			≤ 40
Partial discharge value (1.2Ur)		pC	≤ 5
Mechanical endurance	Circuit breaker	Operating cycles	10000
	Disconnector		3000
	Earthing switch		3000

Semi-Solid Switch & Operating Mechanism Dimensions

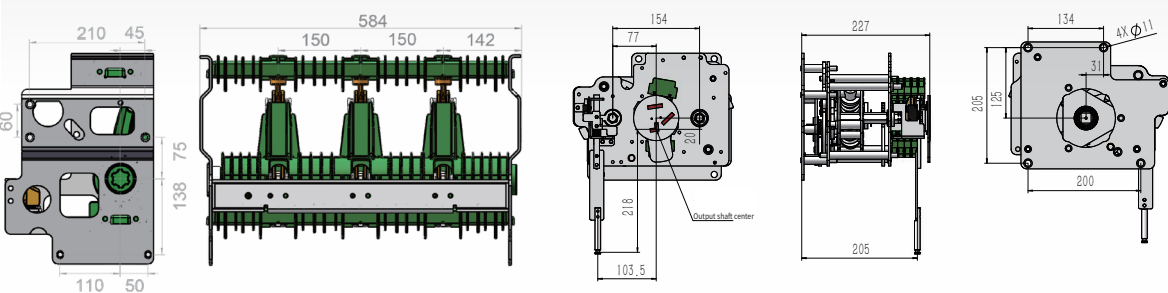
Circuit Breaker Solution (Disconnecter at the up side)



Circuit Breaker Solution (Disconnecter at the down side)



PT Disconnecter Solution



SPB | 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.



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
-  Adopt three-phase integrated moulded structure, ensuring reliability
-  Compact, minimal footprint require, and structurally stable

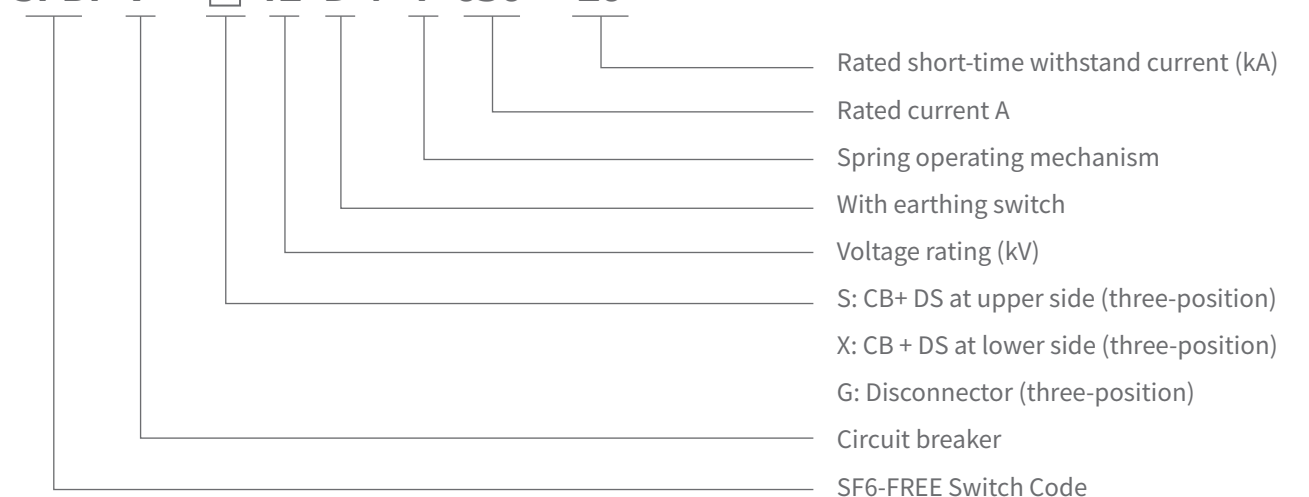
Standards

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

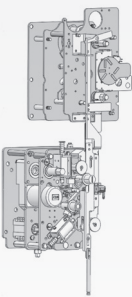
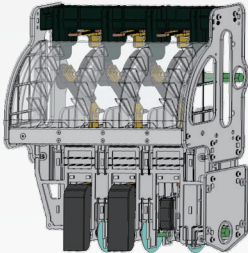
Model Composition and Meaning

Note: Please contact our company if require test type.

SPBI V - ☐ 12 D / T 630 - 20

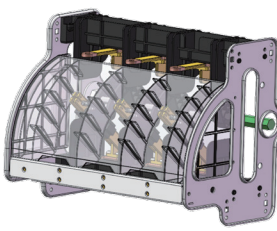


SPB I Series Fiber type SF6-FREE CB & MECHANISM

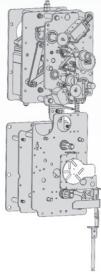
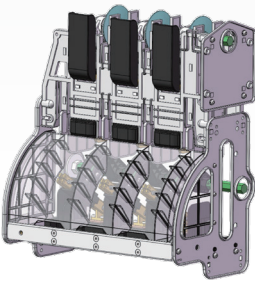


CB Switch (DS at the up side)
SPB I VS-12D/630-20

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

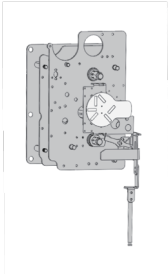


PT Disconnecter
SPB I G-12D/630-20



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)



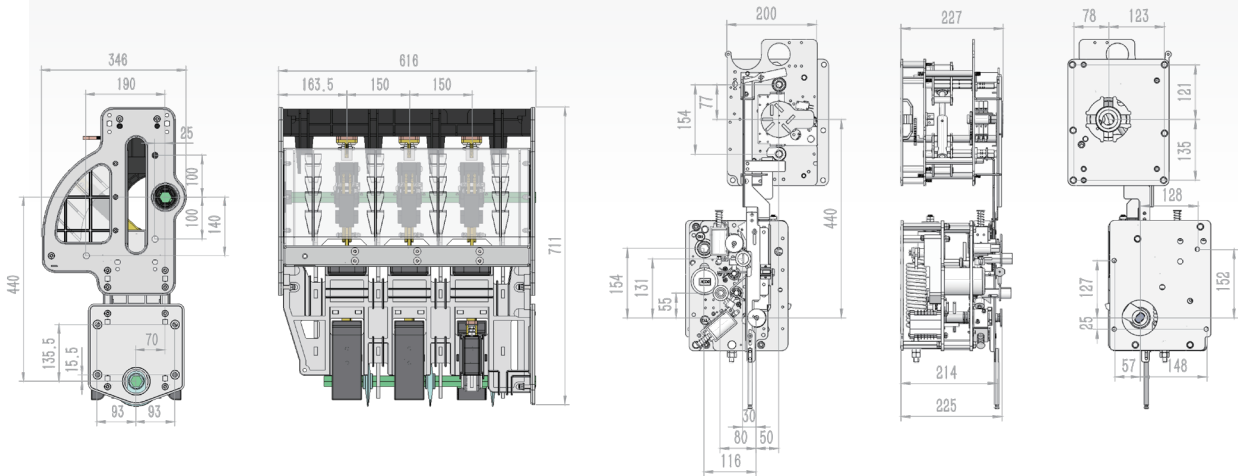
SF6-FREE PT DS Mechanism
SPET I SG332

Technical Parameters

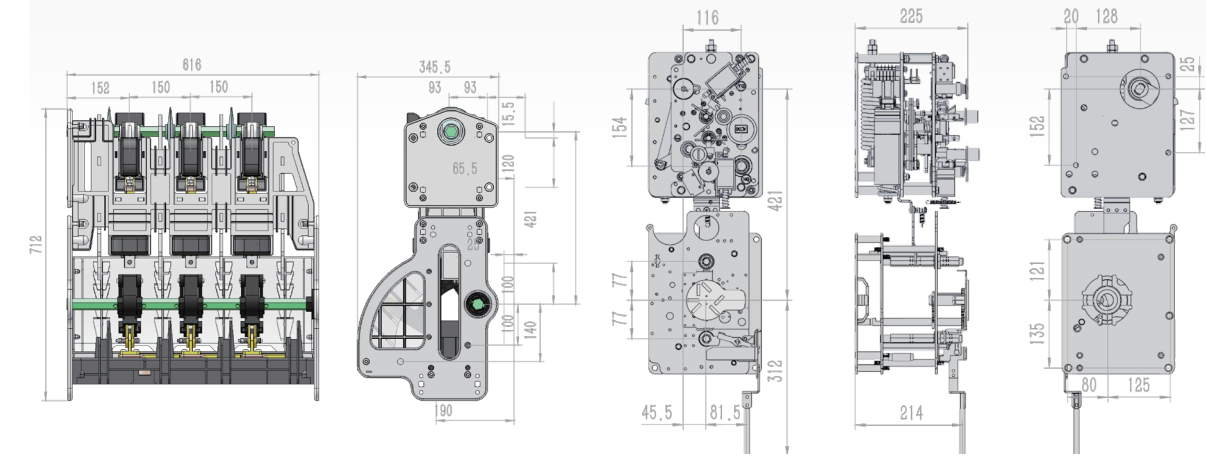
ITEM		UNIT	PARAMETER
Rated voltage		kV	12
Rated current		A	630
Rated frequency		Hz	50
Power frequency withstand voltage (1min)	Phase to Phase/ Phase to Earth	kV	42
	Across the isolating distance		48
Lightning impulse withstand voltage	Phase to Phase/ Phase to Earth	kV	75
	Across the isolating distance		85
Rated peak withstand current		kA	50
Rated short-time withstand current		kA	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		μΩ	≤ 60
Disconnector resistance			≤ 40
Partial discharge value (1.2Ur)		pC	≤ 5
Mechanical endurance	Circuit breaker	Operating cycles	10000
	Disconnector		3000
	Earthing switch		3000

Fiber Type Switch & Operating Mechanism Dimensions

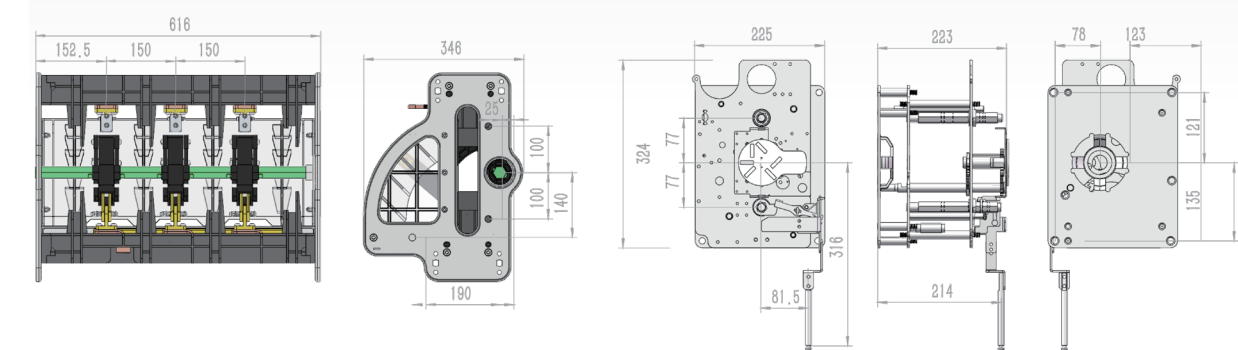
Circuit Breaker Solution (Disconnecter at the up side)



Circuit Breaker Solution (Disconnecter at the down side)

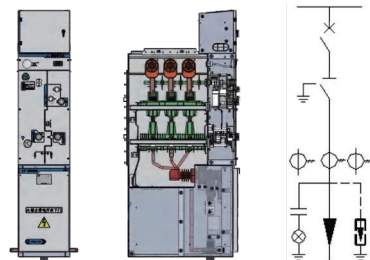
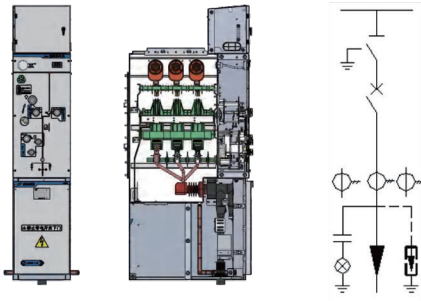


PT Disconnecter Solution



SPB SERIES SF6-FREE RMU SOLUTION

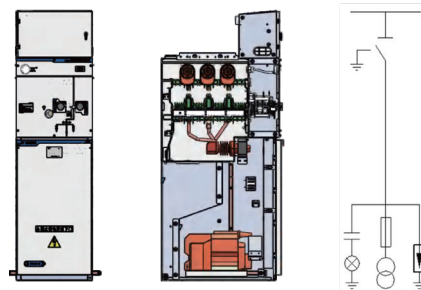
State Grid Standardization
Circuit Breaker Unit
(Disconnecter at the up side)



Circuit Breaker Unit
(Disconnecter at the down side)



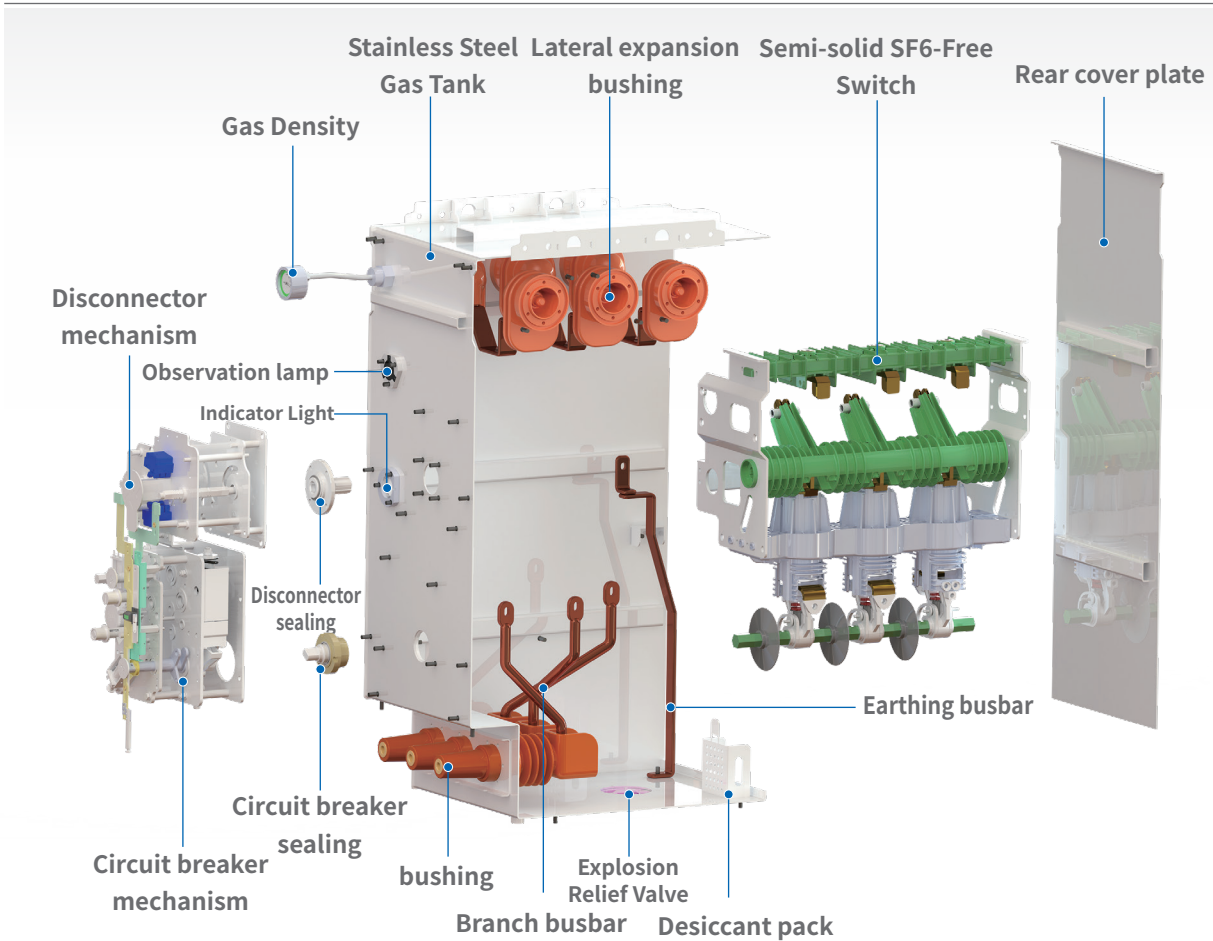
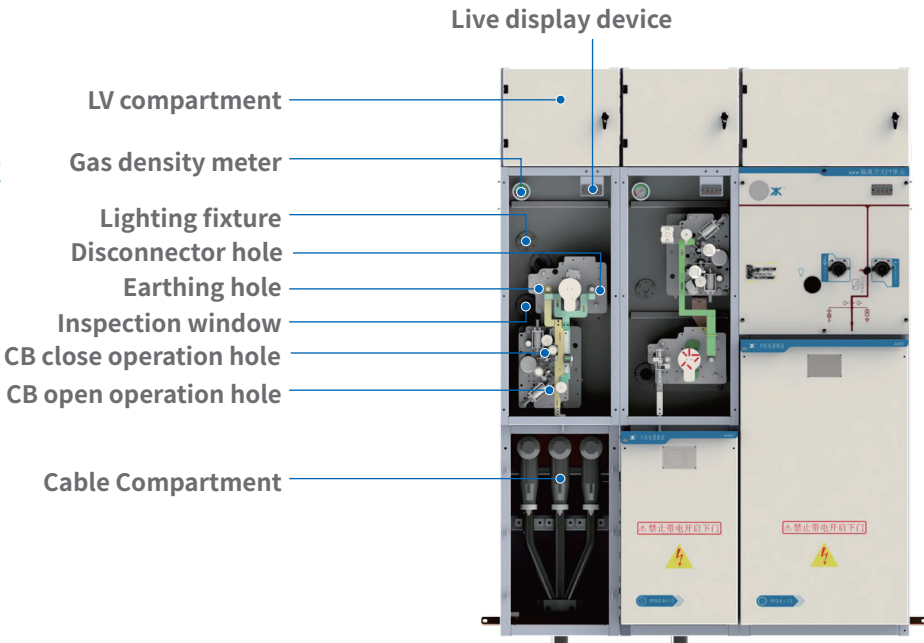
State Grid Standardization
PT Unit



External Dimensions

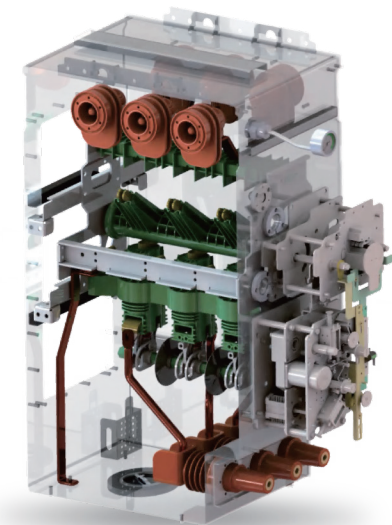
TYPE		Width	Height	Depth
CB	Top expansion	420mm	1950mm	850mm
	Side expansion	420mm	2000mm	
PT	Top expansion	600mm	1950mm	
	Side expansion	600mm	2000mm	
D	Top expansion	420mm	1950mm	
	Side expansion	420mm	2000mm	

PRODUCT FEATURE DISTRIBUTION

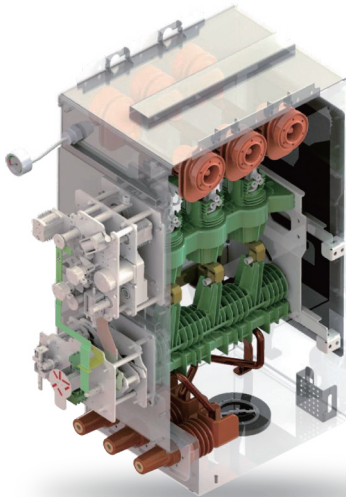


SPB Series Semi Solid Sealed SF6-FREE RMU Solution

RING MAIN UNITS
(RMUs)
SOLUTION >



CB TANK SOLUTION
DISCONNECTOR
AT THE DOWN SIDE



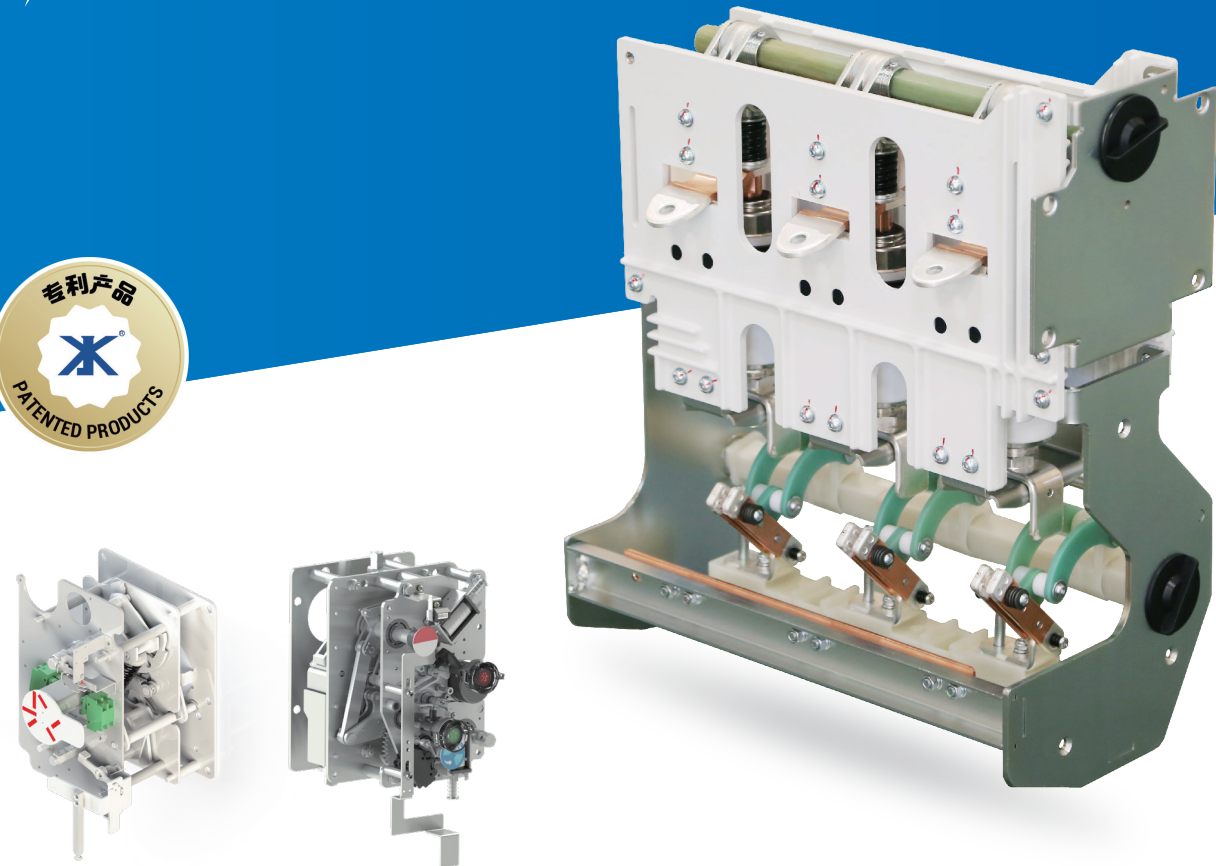
CB TANK SOLUTION
DISCONNECTOR
AT THE UP SIDE

Semi Solid Sealed SF6-FREE RMU ACCESSORIES

NO	ITEM	MODEL	UNIT	QTY	PICTURE
1	Outgoing Cable Insulator	8WXJ.775.031	PCS	3	
2	Side-Expansion Cable Insulator	8WXJ.775.032	PCS	6	
3	Top-Expansion Cable Insulator	8WXJ.775.033	PCS	6	
4	Side Expansion Connector For Sf6-Free Rmu	8WXJ.770.022	PCS	Customer-specified quantity	
5	Side Expansion Plug For SF6-Free Rmu	8WXJ.770.023	PCS	Customer-specified quantity	
6	Lower Copper Bar For Upper Disconnecter Solution	SPQG.8XJ.581.112.Y5 SPQG.8XJ.581.113.Y5 SPQG.8XJ.581.114.Y5	SET	One per phase: A, B, C	
7	Lower Copper Bar For Lower Disconnecter Solution	SPQG.8XJ.581.122.SZ SPQG.8XJ.581.123.SZ SPQG.8XJ.581.124.SZ	SET	One per phase: A, B, C	
8	Lower Copper Bar For Pt Solution	SPQG.8XJ.581.122.SZ SPQG.8XJ.581.123.SZ SPQG.8XJ.581.124.SZ	SET	One per phase: A, B, C	
9	Explosion Relief Valve	6XJ.HBG.1235-D000	SET	1	
10	SF6-Free Gas Density Relay	8WXJ.441.078-D000	SET	1	
11	Indicator Light	8WXJ.404.004	SET	1	
12	Clamp-type Observation Window	HDGC-75	SET	1	
13	Diconnector mechanism sealing	5XJ.211.054.HB.1	PCS	1	
14	Circuit breaker mechanism sealing	5XJ.210.169	PCS	1	

SPF SERIES SF6 RMU CIRCUIT BREAKER

25kA



Product Introduction

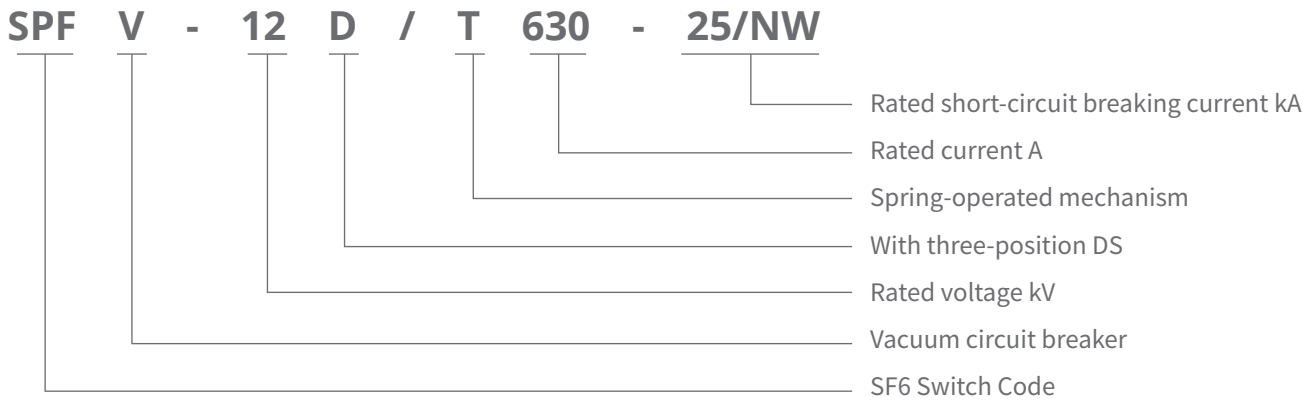
SPFV-12D/T630-25 is a dedicated vacuum circuit breaker for 12kV SF6 gas-insulated switchgear , incorporating a three-position isolating and earthing switch. Featuring a fiber-type structure, it offers key advantages including reliable breaking performance, extended service life, maintenance-free operation, and enhanced safety.As a core component of gas-insulated switchgear, it possesses performance characteristics such as load current breaking capability, short-circuit current interrupting capacity, and closing functionality.

The SPFV-12D/T630-25 vacuum circuit breaker complies with GB/T11022-2020, GB1984 standards.
It satisfies the technical tender requirements for 12kV SF6 ring main units specified by China Southern Power Grid.

- ### Product Features
- Easy to install, less maintenance, compact and reliable.
 - VCB Dynamic thermal stability 63kA/25kA(4s); Disconnecter E2 class.
 - Mechanical endurance: VCB ≥ 10000 operating cycles, DS ≥ 3000 cycles
 - Ambient temperature: -25° C to +50° C; Seismic intensity ≤ 8 degrees

Model Composition and Meaning

Note: Please contact our company if require test type.

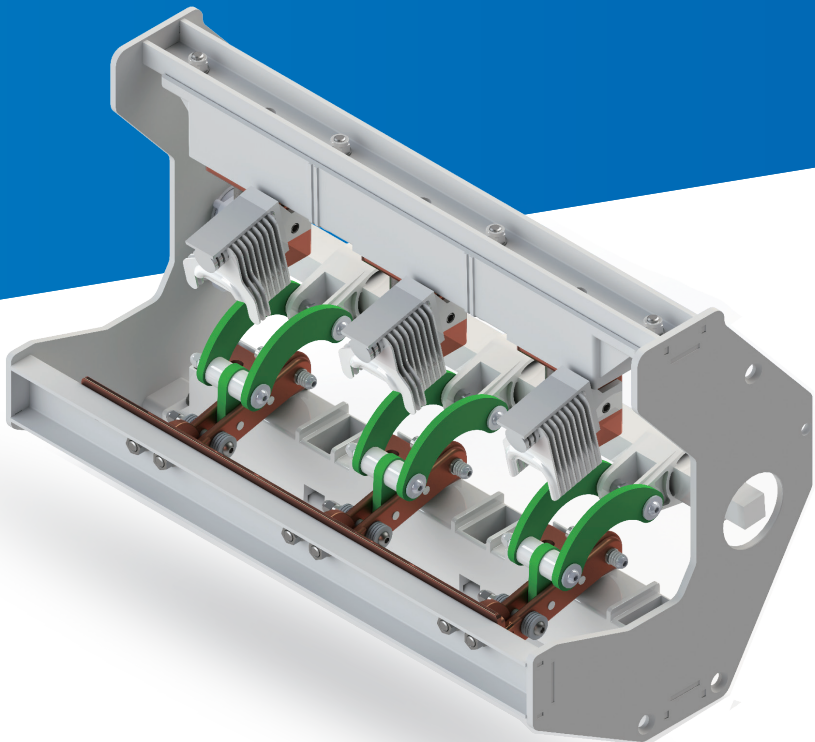
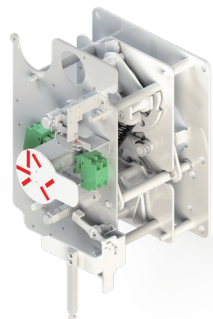


Main Technical Parameters

ITEM	UNIT	PARAMETER
Rated Voltage	kv	12
Rated Frequency	Hz	50
Rated Current	A	630
Power frequency withstand voltage (1min)	kv	Across the isolating distance
		Phase to Phase/ Phase to Earth
Rated peak impulse withstand voltage (1.2/50μS)	kv	Across the isolating distance
		Phase to Phase/ Phase to Earth
Rated short-circuit making current	kA	63
Rated short-time withstand current (rms)	kA/S	25(4s)
Rated peak withstand current	kA	63
Rated short-circuit breaking current	kA	25
Rated short-circuit breaking capacity		≥ E2 Class
Maximum Permissible Partial Discharge Level 1.1Ur	pC	≤ 5
Circuit breaker Mechanical Endurance	Operating cycles	≥ 10000
DS, ES Mechanical Endurance		≥ 3000

SPF SERIES SF6 RMU LOAD BREAK SWITCH

25kA



Product Introduction

SPFC-12D/T630-25 series load breakswitch are specifically designed for 12kV SF6 gas-insulated switchgear. Featuring a rotary moving contact (knife-blade) structure with arc-extinguishing grids, this switch offers reliable performance and excellent insulation properties. Product performance complies with GB/T3804-2017.

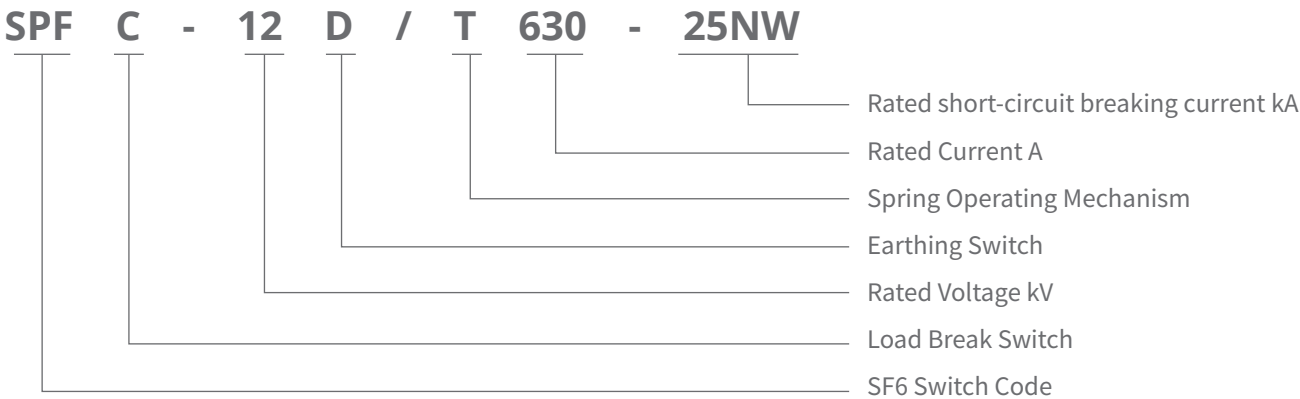
SPFC-12D/T630-25 load switch is primarily employed within 12kV/630-25 SF6 gas-insulated switchgear. Serving as a core component of the switchgear, it performs essential functions including the breaking and making of rated currents and load currents.

PRODUCT FEATURE

- Three-position load break switch, ensuring safety and reliability.
- Rotary blades + arc-extinguishing grids provide superior breaking performance
- Mechanical endurance: LBS ≥ 5000 cycles, ES ≥ 3000 cycles
- Ambient temperature: -25°C to $+50^{\circ}\text{C}$; Seismic intensity ≤ 8 degrees

Model Composition and Meaning

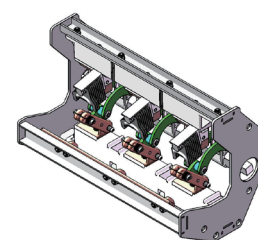
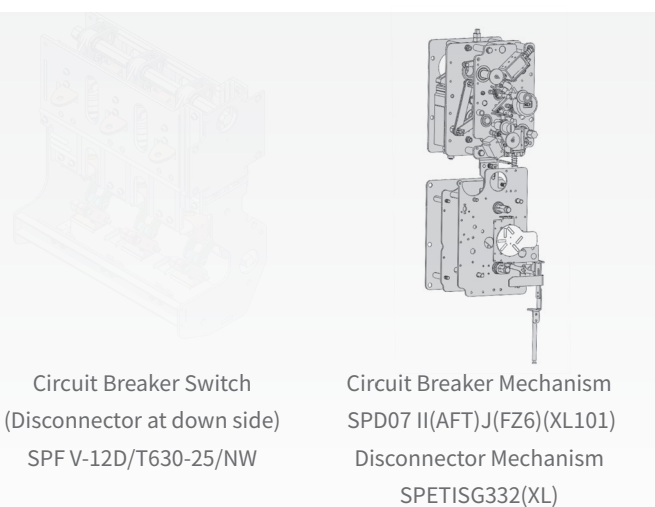
Note: Please contact our company if require test type.



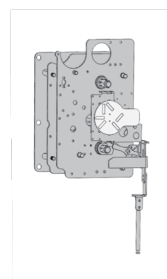
Main Technical Parameters

ITEM	UNIT	PARAMETER
Rated Voltage	kV	12
Rated Frequency	Hz	50
Rated Current	A	630
Power frequency withstand voltage (1min)	kV	Across the isolating distance
		Phase to Phase/ Phase to Earth
Rated peak impulse withstand voltage (1.2/50μs)	kV	Across the isolating distance
		Phase to Phase/ Phase to Earth
Rated short-circuit making current	kA	50
Load break switch mechanical endurance	Times	≥ 5000
Earthing switch mechanical endurance	Times	≥ 3000
Short-time withstand current of earthing switch	kA	25/4s
Rated short-circuit making current	kA	50
Rated load breaking current	A	630
Number of interruptions under rated active load conditions	Times	≥ 100
Maximum Permissible Partial Discharge Level 1.1Ur	pC	≤ 5

SPF Series SF6 RMU CB & Mechanism (25kA)



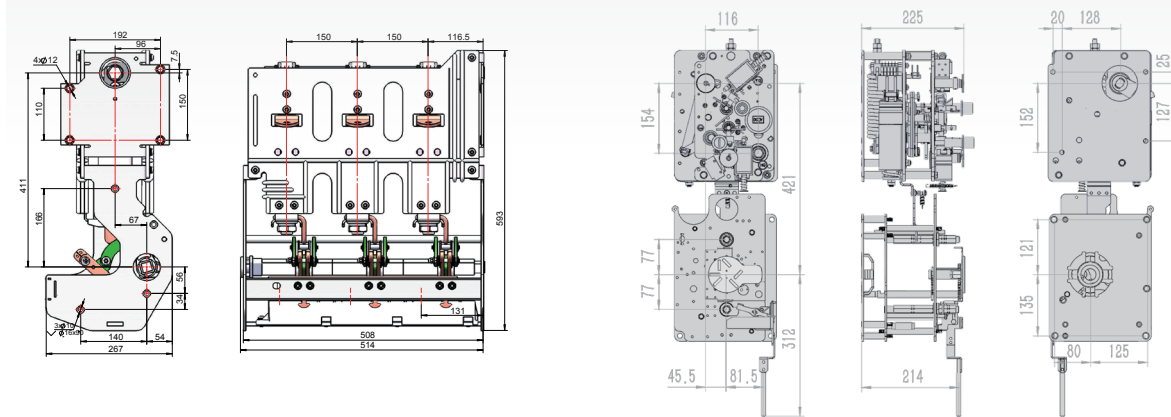
Load Break Switch
SPF C-12D/T630-25NW



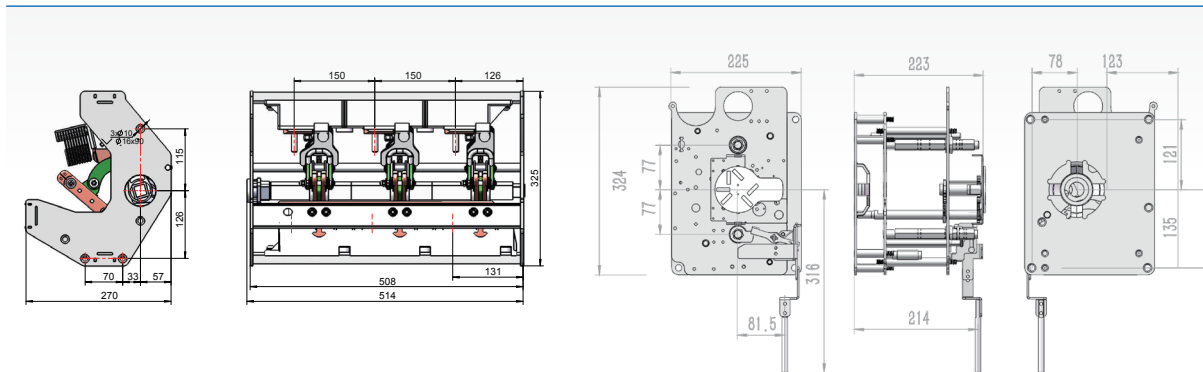
Load Break Switch Mechanism
SPETISG332

Switch & Mechanism Dimension

Circuit Breaker Solution (Disconnector at the down side)

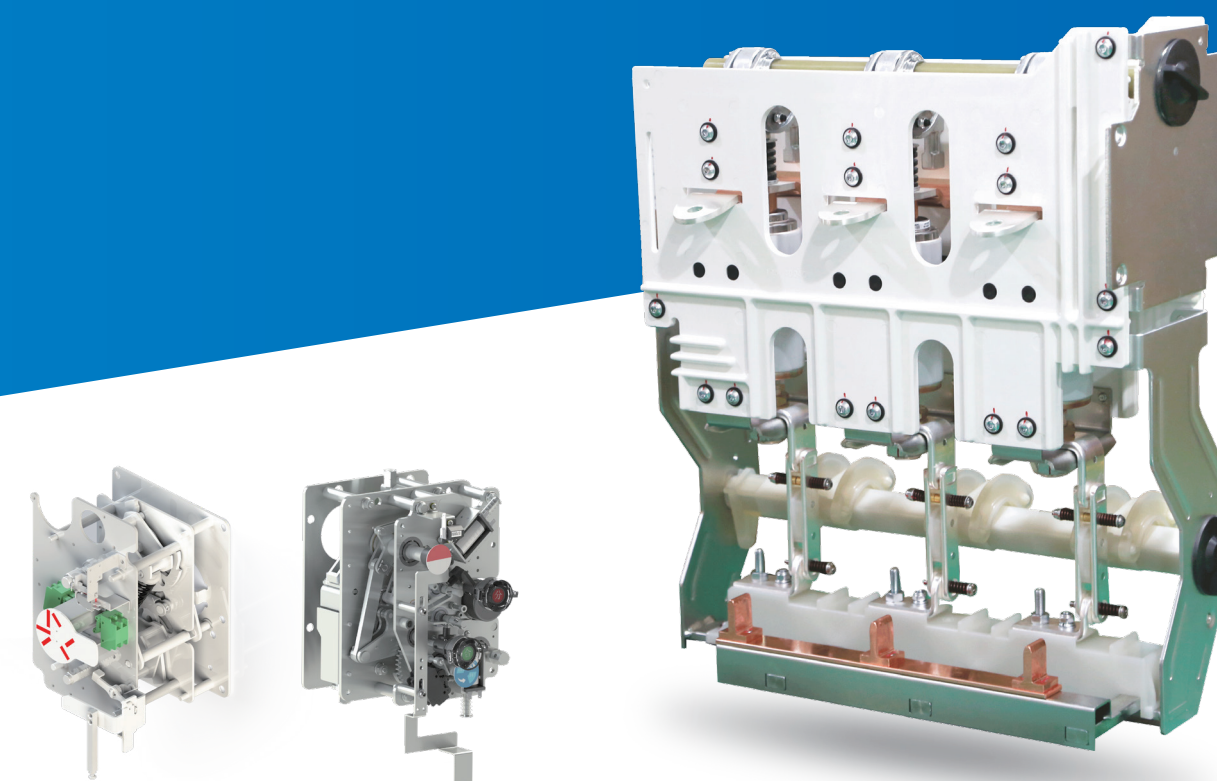


Load Break Switch Solution



SPF SERIES SF6 RMU CIRCUIT BREAKER

⚡ 20kA



Product Introduction

SPFV-12D/T630-20 is a dedicated vacuum circuit breaker for 12kV SF6 gas-insulated switchgear, incorporating a three-position disconnector and earthing switch. Featuring a clamp-type structure, it offers key advantages including reliable breaking performance, extended service life, maintenance-free operation, and enhanced safety. As the component of gas-insulated switchgear, it performs core functions with characteristics such as load current handling, and the ability to making and breaking short-circuit currents.

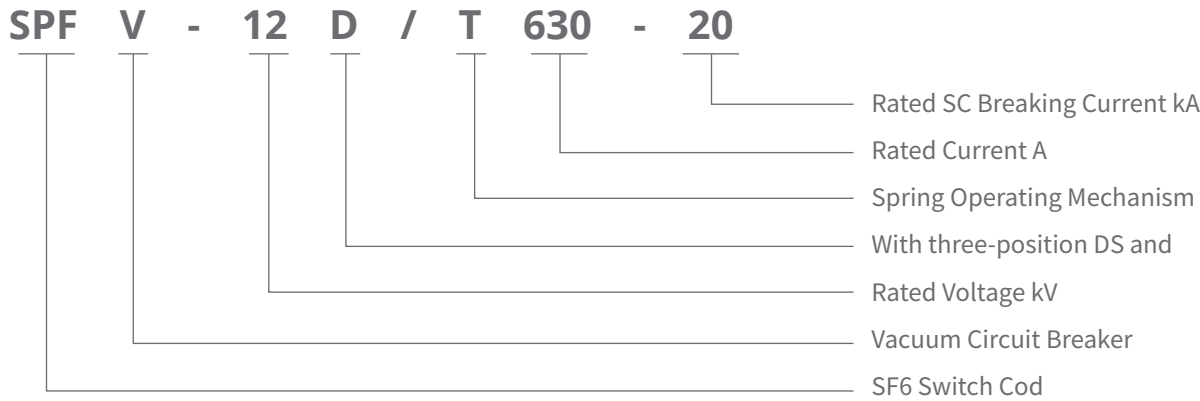
The SPFV-12D/T630-20 vacuum circuit breaker complies with GB/T11022-2020, GB1984 standards.

Product Features

- Easy installation, minimal maintenance, compact and reliability.
- Main circuit: 63kA/20kA (4s), mechanical endurance ≥ 10,000 operations
- Mechanical endurance: Disconnecter switch, Earthing switch
≥ 3000 operations
- Ambient temperature: -25° C to +50° C; Seismic intensity ≤ 8 degrees

Model Composition and Meaning

Note: Please contact our company if require test type.

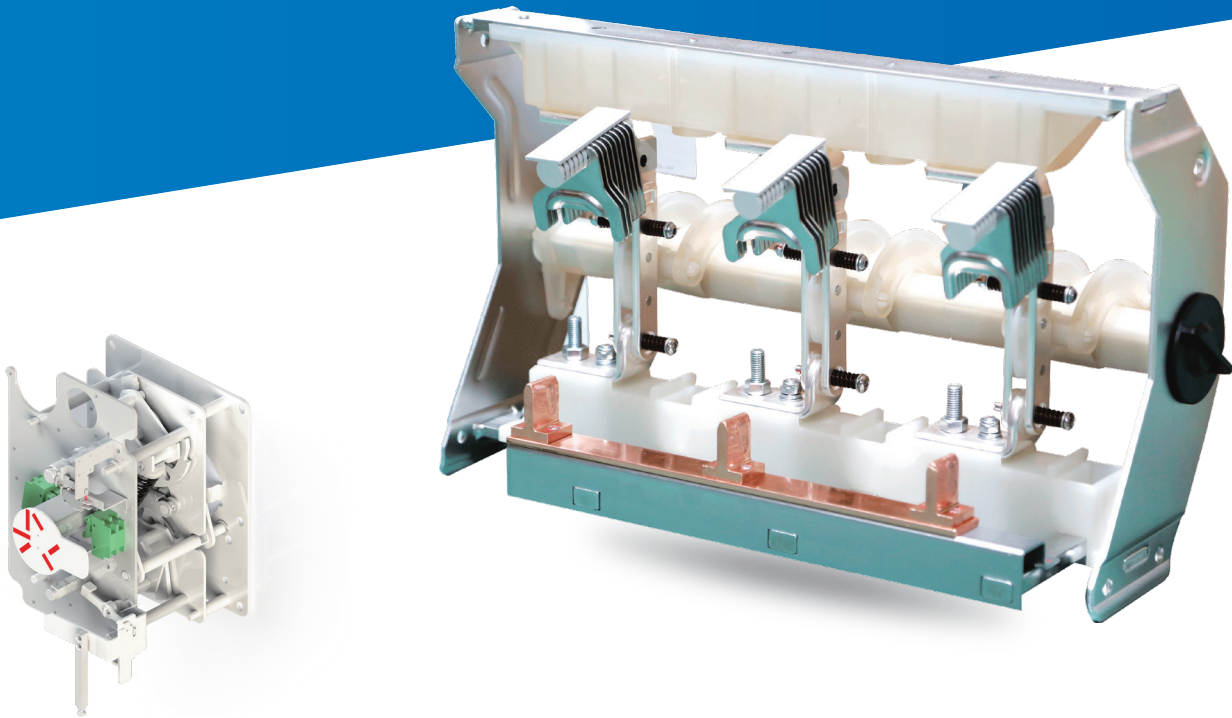


Main Technical Parameters

ITEM	UNIT	PARAMETER
Rated Voltage	kv	12
Rated Frequency	Hz	50
Rated Current	A	630
Power frequency withstand voltage (1min)	kV	Across the isolating distance
		Phase to Phase/ Phase to Earth
Rated peak impulse withstand voltage (1.2/50μS)	kV	Across the isolating distance
		Phase to Phase/ Phase to Earth
Rated short-circuit making current	kA	50
Rated short-time withstand current (rms)	kA/S	20 (4s)
Rated peak withstand current	kA	50
Rated short-circuit breaking current	kA	20
Rated short-circuit breaking capacity		≥ E2 Class
Earthing switch 2s short-time withstand current	KA	20
Circuit breaker mechanical endurance	Operation	≥ 10000
DS, ES Mechanical Endurance	Cycles	≥ 3000
Maximum Permissible Partial Discharge Level 1.1Ur	pC	≤ 15

SPF SERIES
SF6 LOAD BREAK SWITCH

20kA



Product Introduction

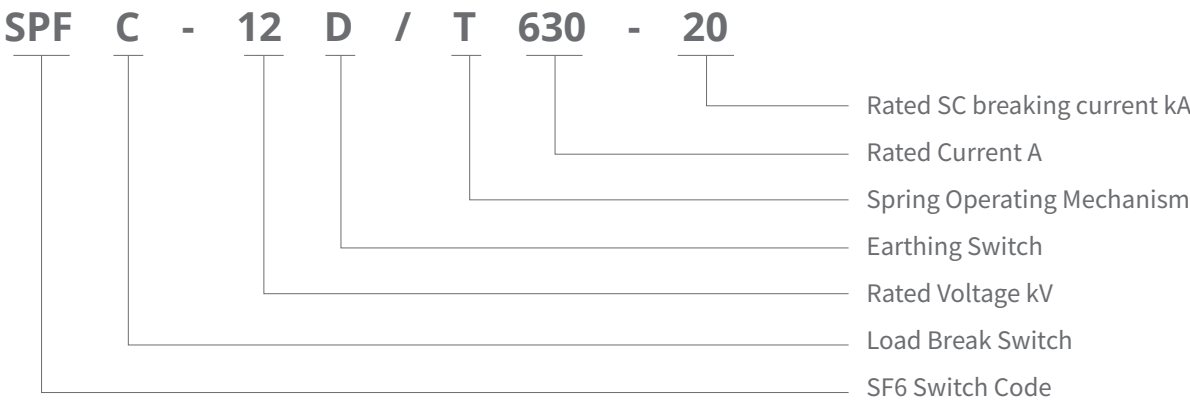
SPFC-12D/T630-20 series load switches are specifically designed for 12kV SF6 gas-insulated switchgear. Featuring a rotary moving contact structure with arc-extinguishing grids, these switches offer reliable performance and excellent insulation properties. Product performance complies with GB/T3804-2017. The SPFC-12D/T630-20 load switch is primarily employed in 12kV/630-20 SF6 gas-insulated switchgear as a core component, performing essential functions including the breaking and making of rated currents and load currents.

Product Features

- Three-position load break switch, ensuring safety and reliability.
- Rotary blades + arc-extinguishing grids provide superior breaking performance
- Mechanical endurance: LBS ≥ 5000 cycles, ES ≥ 3000 cycles
- Ambient temperature: -25° C to +50° C; Seismic intensity ≤ 8 degrees

Model Composition and Meaning

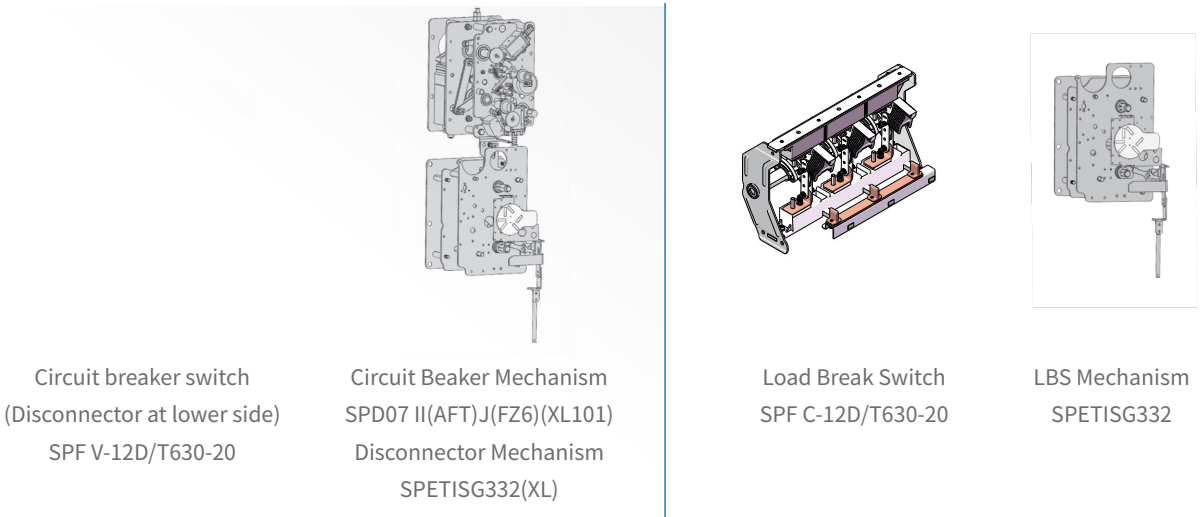
Note: Please contact our company if require test type.



Main Technical Parameters

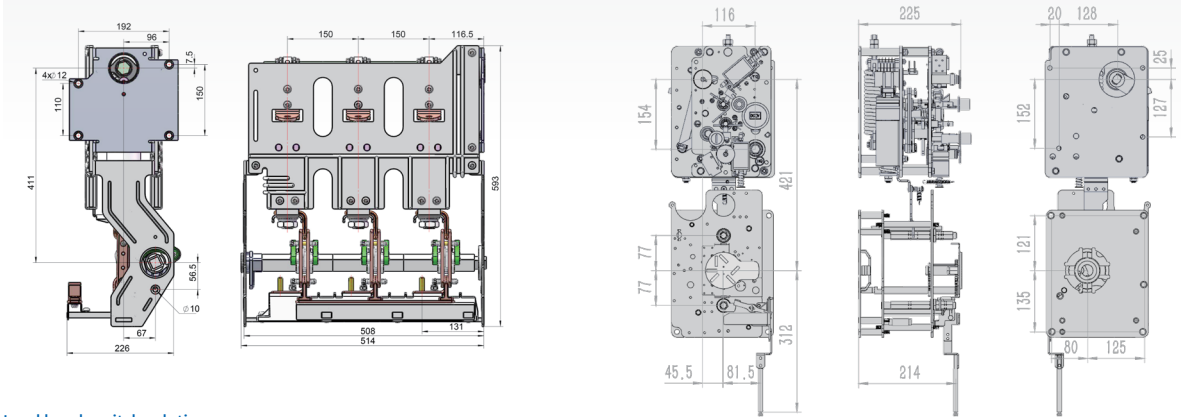
ITEM	UNIT	PARAMETER
Rated Voltage	kV	12
Rated Frequency	Hz	50
Rated Current	A	630
Power frequency withstand voltage (1min)	Across the isolating distance	48
	Across the switching distance	42
	Phase to Phase/ Phase to Earth	42
Rated peak lighting impulse withstand voltage (1.2/50μS)	Across the isolating distance	85
	Across the switching distance	75
	Phase to Phase/ Phase to Earth	75
Rated short-circuit making current	kA	50
Load Break Switch Mechanical Endurance	Operations	≥ 5000
Earthing Switch Mechanical Endurance	Operations	≥ 3000
Earthing Switch Short-time Withstand Current	kV	20/4s
Rated short-circuit making current	kA	50
Rated load breaking current	A	630
Number of interruptions under rated active load conditions	times	≥ 100
Maximum Permissible Partial Discharge Level 1.1Ur	pC	≤ 5

SPF Series CB & Mechanism for GIS (20kA)

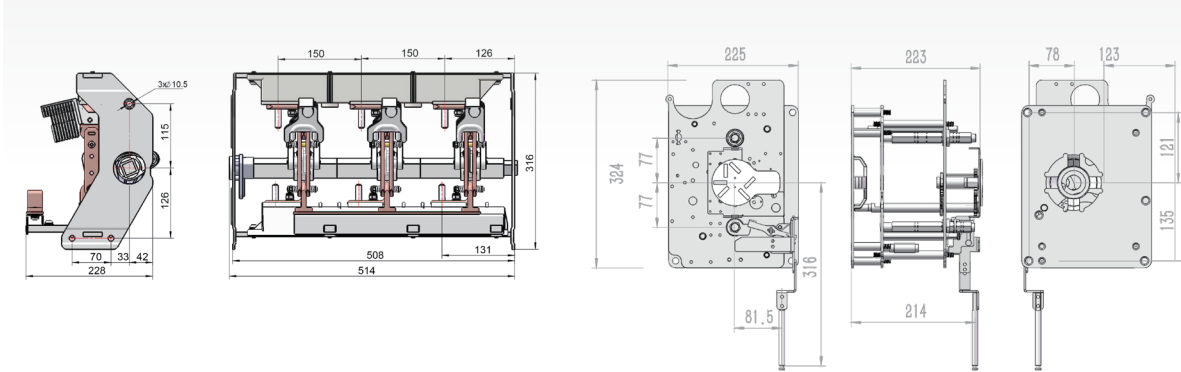


Switch & Mechanism Outline Dimension Drawing

Circuit breaker solution (disconnecter at the down side)



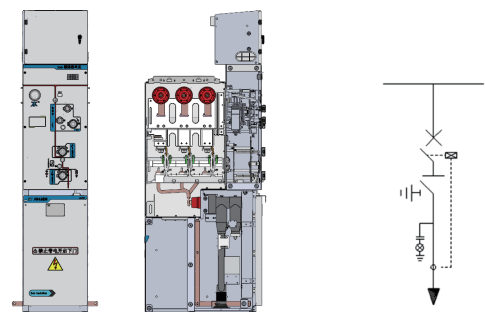
Load break switch solution



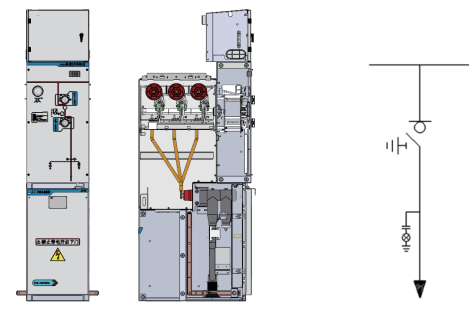
SPF Series Gas-insulated RMUs Solution

Circuit Breaker Unit

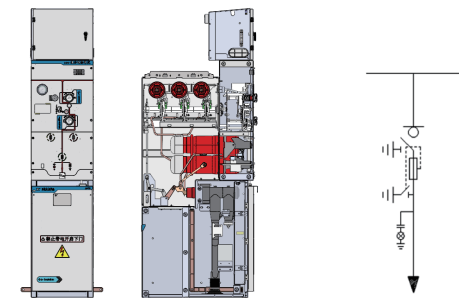
(Disconnecter at the down side)



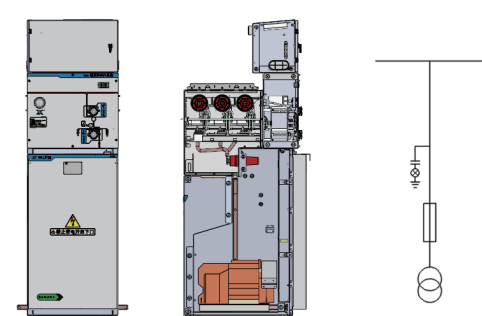
Load Break Switch Unit



Fuse-Switch Unit



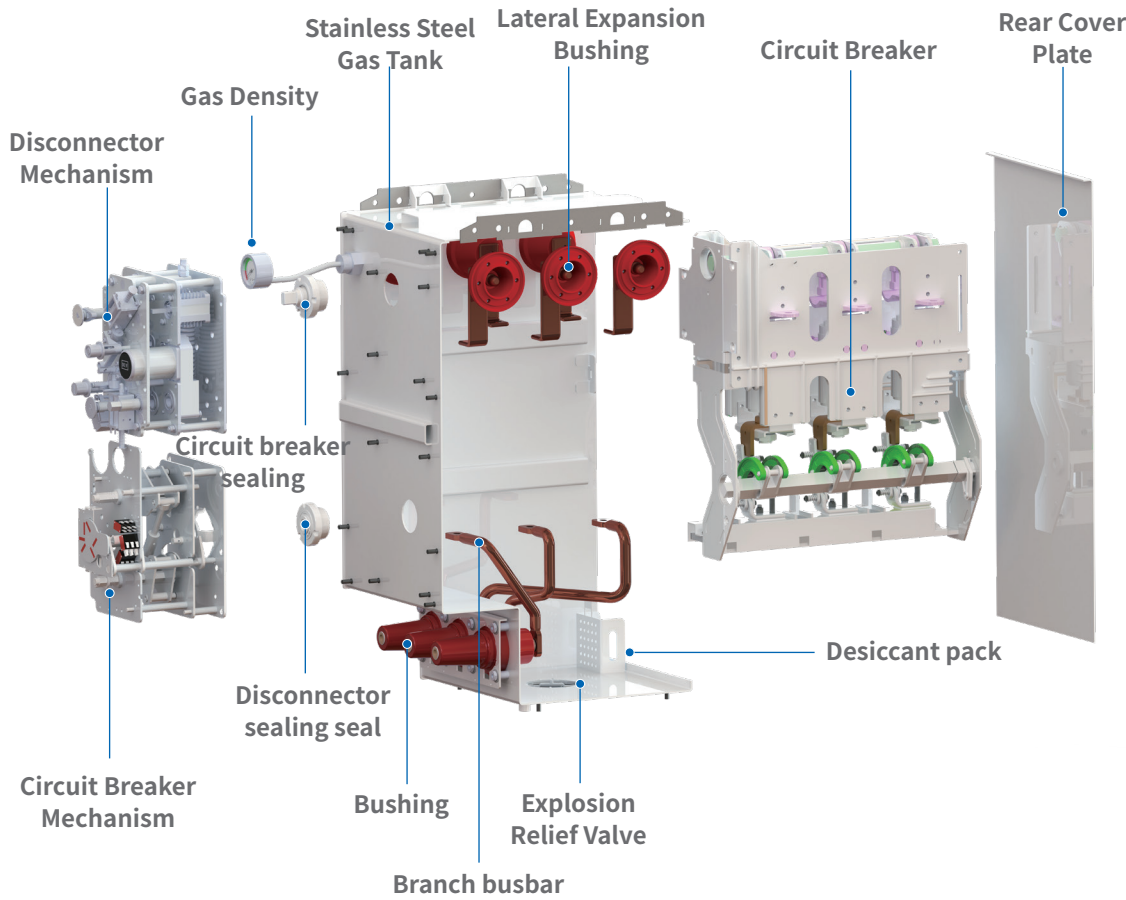
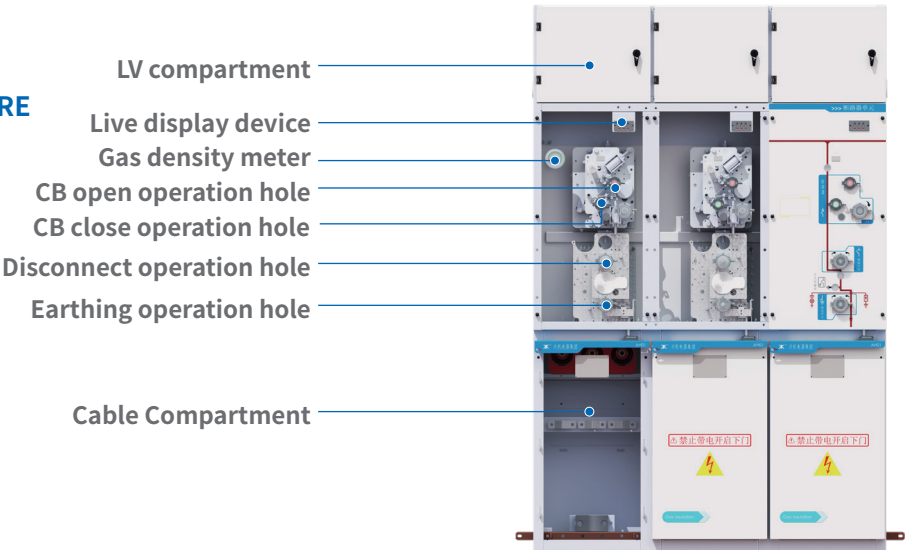
PT Unit



External Dimensions

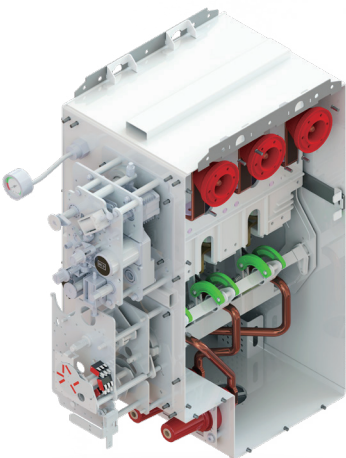
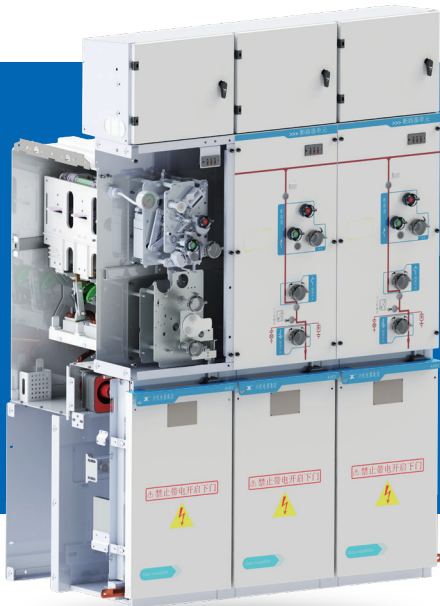
TYPE		Width	Heright	Depth
CB Unit	Top expansion	420mm	1950mm	750mm
	Side expansion	420mm	1950mm	
PT Unit	Top expansion	600mm	1950mm	
	Side expansion	600mm	1950mm	
LBS Unit	Top expansion	375mm	1950mm	
	Side expansion	375mm	1950mm	
Fuse-Switch Unit	Top expansion	420mm	1950mm	
	Side expansion	420mm	1950mm	

PRODUCT FEATURE DISTRIBUTION



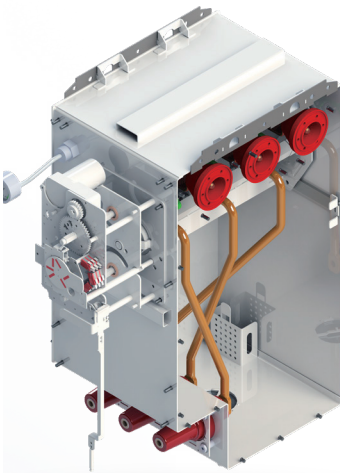
SPF GAS-INSULATED RMU SOLUTION

RING MAIN UNITS
(RMUs)
SOLUTION

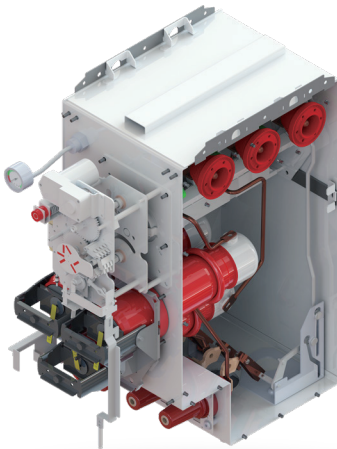


VCB GAS
TANK SOLUTION

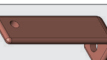
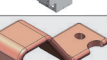
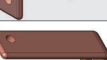
LBS GAS
TANK SOLUTION



FUSE-SWITCH GAS
TANK SOLUTION

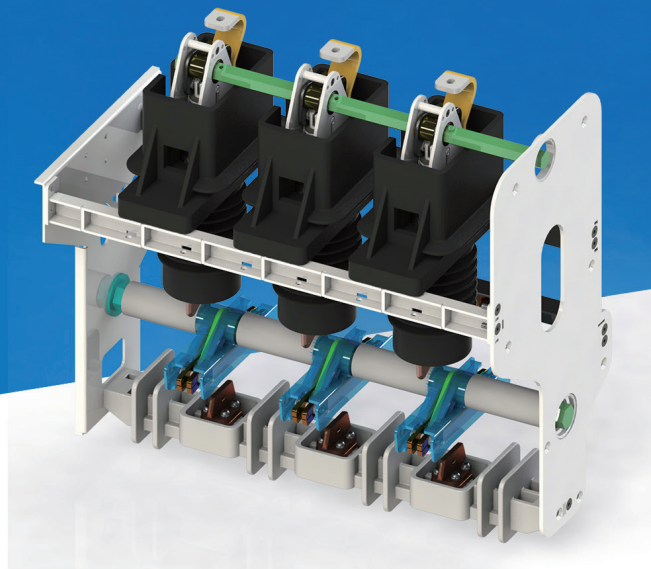


Gas-Insulated RMU Accessories

No	ITEM	MODEL TYPE	QTY	Picture
1	Operating Handle	5XJ253030.7	1	
2	Desiccant	KDHF-03	1	
3	SF6 Gas Density	8WXJ.441.078.1	1	
4	Branch Busbar (LBS)	5XJ.580.030	1	
5	Main Busbar - LBS - Left	SPQX8XJ.050.5482	3	
6	Main Busbar - LBS - Right	SPQX8XJ.050.5472	3	
7	Gas tank Welding (LBS)	SPQX5XJ.008.022	1	
8	Branch busbar (CB)	5XJ.580.031	1	
9	Main Busbar - CB - Right	SPQX8XJ.581.082	3	
10	Main Busbar - CB - Right	SPQX8XJ.581.082	3	
11	Gas tank Welding (CB)	SPQX5XJ.355.041	1	
12	Main Busbar - LBS with Fuse - Left	SPQX8XJ.050.5482	3	
13	Main Busbar - LBS with Fuse - Right	SPQX8XJ.050.5472	3	
14	Gas Tank Welding (LBS with Fuse)	SPQG.5XJ.355.074	1	
15	Fuse Assembly	5YS.802006	1	
16	Earthing Switch	SPFG.5XJ.567.018	1	
17	Lighting Fixture (26mm Aperture) - Dc 48v	8WXJ.404.004	1	
18	Observation Window Assembly	HDGC-75	1	
19	Busbar Insulator	8WXJ.775.043	6	
20	Double-Pass Bushing	8WXJ.775.042	3	
21	Pressure Relief Valve	6XJ.HBG.1235	1	

Yaoyu Series SPB VIII Environmental Protection Switch Body

⚡ (17.5/24kV)



FEATURES

- 17.5kV Suitable for 17.5/24kV environmentally friendly gas insulated ring main unit
- The core unit of the mechanism+switch, highly matched
- The insulation components of switches often use environmentally friendly thermoplastic materials with a recycling rate of up to 90%
- Gas insulation can be achieved by using environmentally friendly gas dry mixture and N₂ gas
- Small size, less space occupation, stable structure

Standard

GB/T 1984	High voltage AC circuit breaker
GB/T 1985	High voltage AC isolation switch and grounding switch
GB/T 3906	3.6kV-40.5kV AC metal enclosed switchgear and control equipment
GB/T 11022	Common Technical Requirements for High Voltage AC Switchgear and Control Equipment Standards
GB/T 16927.1	High voltage testing techniques - Part 1: General definitions and testing requirements
DL/T 402	High voltage AC circuit breaker
DL/T 486	High voltage AC isolation switch and grounding switch
DL/T 593	Common technical requirements for high voltage switchgear and control equipment standards

Model Composition And Meaning

SPBⅧ - X □ D / T 630 - 21

- Rated short-time withstand current (kA)
- Rated current A
- Spring operating mechanism
- Equipped with grounding switch
- Voltage level (17.5/24kV)
- X: Circuit breaker+lower isolation mechanism (three stations)
- Environmental Protection Switch Code

Condition

Ambient temperature:

Maximum temperature+40 ° C, minimum temperature -40 ° C
(storage and transportation allowed at -40 ° C);

ambient humidity:

Daily average relative humidity<95%, monthly average relative humidity<90%;

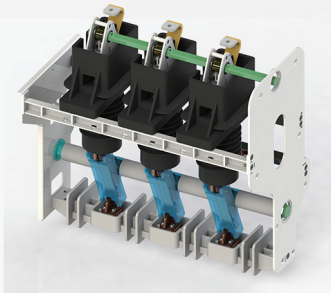
Place of use:

The surrounding air is not significantly polluted by dust, smoke, corrosive gases, flammable gases, steam, or salt spray, and there is no fire or explosion, severe pollution, or seriousChemical corrosion and severe vibration. Seismic intensity: not exceeding 8 degrees;

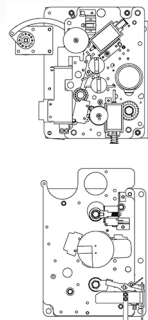
Altitude:

Suitable for distances below 4000 meters; When the product is installed more than 1000 meters above the poster, special attention should be paid so that the manufacturer can adjust the product during production.

Yaoyu Series
SPB environmental protection cabinet core
unit(17.5/24kV)



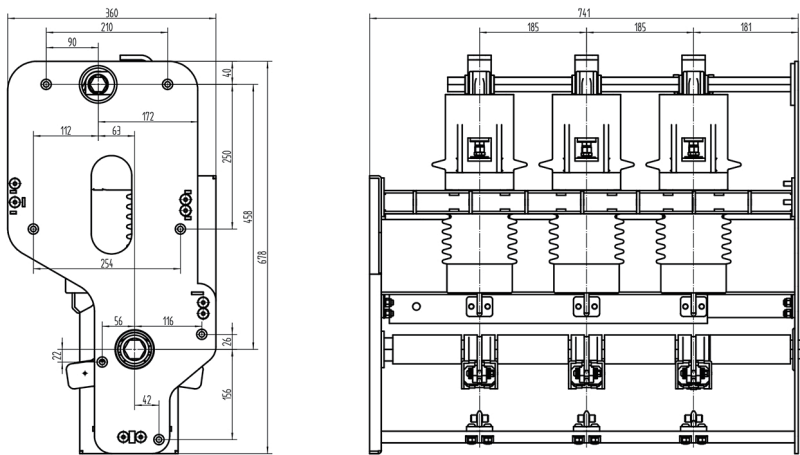
Lower isolation and upper circuit breaker switch
SPBVIII-XD/T630-21



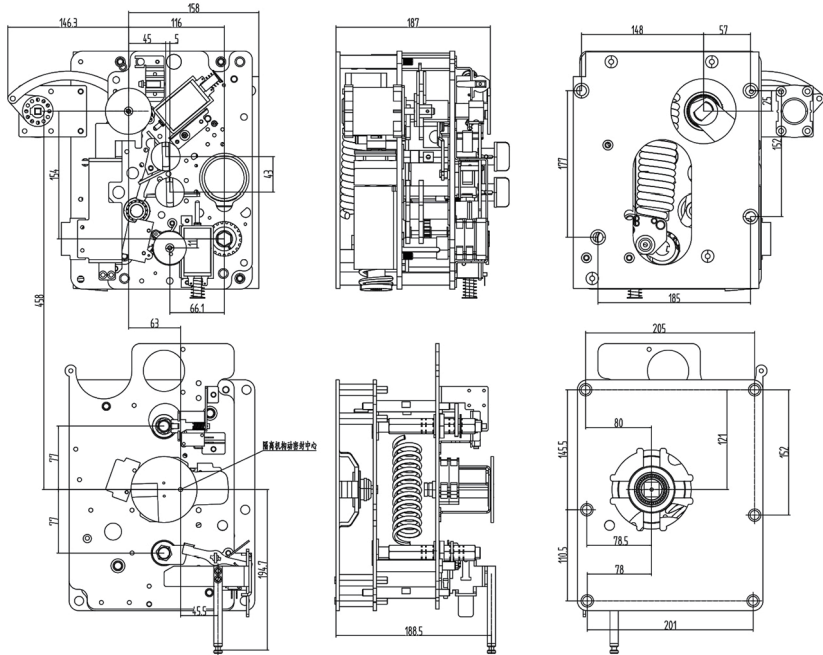
Isolation circuit breaker mechanism under environmental protection
SPD07IIIJ(FZ6)(H187)-DR00
Isolation institutions under environmental protection
SPEGIASG22/KGYS-DR00

Overall Dimension Drawing

Lower isolation circuit breaker switch body



Lower isolation circuit breaker operating mechanism



Main Technical Parameters

order number		project		unit	circuit breaker	
1	rated voltage			kV	17.5	24
2	rated frequency			Hz	50/60	
3	rated current			A	630	
4	rated insulation level	1-minute power frequency withstand voltage	Alternating to the ground	kV	50	55
			fracture surface		60	65
		Lightning impulse withstand voltage (to ground)	Alternating to the ground		95	125
			fracture surface		110	145
5	rated short-time withstand current			kA	21	
6	rated peak withstand current			kA	55	
7	rated short-circuit breaking current			kA	21	
8	Rated short-circuit closing current			kA	55	
9	Rated short-circuit breaking times			次	30	
10	Circuit breaker+isolation switch circuit resistance			μΩ	≤60	
11	Short circuit closing life of grounding switch			次	5 times (E2 level)	
12	Isolation switch circuit resistance			μΩ	≤40	
13	Partial discharge value (1.2Ur)			pC	≤10	
14	mechanical life	Circuit breaker		Times	10000 (M2 level)	
		disconnecting switch			3000 (M1 level)	
		grounding switch			3000 (M1 level)	