

Technical Parameters

Reliable-24kV SF6-insulated compact switchgear

Technical parameters		Cabinet type	C module	F module	V module
		unit	Load switch	Combination appliances	breakers
Rated voltage		kV	24	24	24
Rated frequency		Hz	50/60	50/60	50/60
Rated current		A	630	Depends on the current rating of the fuse	630
Power frequency withstand voltage	Interstitial, relative and fractured	kV	65/79	65/79	65/79
Lightning impulse withstand voltage		kV	125/145	125/145	125/145
Rated closed-loop breaking current		A	630	N/A	N/A
Transfer current		A	N/A	1400	N/A
Rated short-time withstand current 4s		kA	20	N/A	20
Rated peak withstand current		kA	50	N/A	50
Rated short-circuit closing current (peak)		kA	50	Limited by high-voltage fuses	50
Main loop resistance		μΩ	200	450	200
Mechanical life		times	5000	5000	5000
Grounding switch mechanical life		times	≥3000		
Disconnecter mechanical life		times	≥3000		
SF6 inflation pressure in the air tank (20° C)		MPa	0.04MPa		
the degree of protection		Gas tank IP67 /Enclosure IP4X			
Internal arc burning experiment		20kA 1s（China standard is 20kA/0.5s, our products can achieve 20kA/1s. 20kA/1s will be reflected in the type test reports from STL）			
Whole container partial discharge		Measure ≤ 20Pc at 1.1ur			

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Reliable is manufactured and tested in accordance with the latest version of the below IEC regulations.

IEC 62271-1	Common specifications for high-voltage switchgear and controlgear standards
IEC 62271-100	High-voltage switchgear and controlgear-Part 100: high-voltage alternating-current circuit-breakers
IEC 62271-102	High-voltage switchgear and controlgear-Part 102: alternating current disconnectors and earthing switches
IEC 62271-105	High-voltage switchgear and controlgear-Part 105: alternating current switch-fuse combinations
IEC 62271-200	High-voltage switchgear and controlgear-Part 200: A.C. metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
IEC 62271-103	High-voltage switches-Part 1: switches for rated voltages above 1 kV and less than 52 kV
IEC 60529	Degrees of protection provided by enclosures (IP code)

Voltage detection system (VDS)	IEC 61243-5
Voltage presence indication systems (VPIS)	IEC 62271-206, IEC 61958
Bushings	CENELEC EN 50180 / EN 50181, IEC 61243-5, IEC 62271-206, IEC 60137, EDF HN 52-S-61
Electronic protection relays	IEC 60255
Instrument transformers-general requirements	IEC 61869-1
Current instrument transformers	IEC 61869-2
Voltage instrument transformers	IEC 61869-3
Current sensors	IEC 60044-8
Voltage sensors	IEC 60044-7
Combined bushings sensors	IEC 60044-7, IEC 60044-8, CENELEC EN 50181, IEC 62271-206, IEC 61243-5
MV fuses	IEC 60282-1
Cable connection	CENELEC EN 50180, CENELEC EN 50181, IEC 60137, IEC 60502-4