

ZN63A(VS1)-12 Indoor High Voltage Vacuum Circuit Breaker



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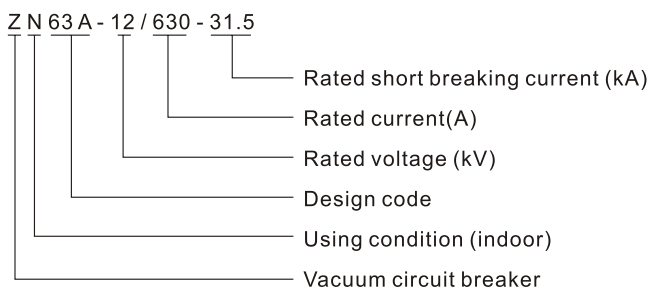
1. General

ZN63A(VS1)-12 series vacuum circuit breaker is indoor high voltage switchgear with rated voltage 12kV, three-phase AC 50Hz, which is developed by introducing from Switzerland, ABB Corporation technology and analyzing domestic profession development condition, productivity development manufacture product. The overall structure of this product is formed with the switch main body and operating device, uses the compound insulation structure, does not have the pollution and the explosion hazard, and the insulation level is high. This operating device of the series product is for the spring loaded type, can use the electrically operated operation, also can use the manual operation.

2. Working conditions

- 2.1 Altitude not exceeding 1000m
- 2.2 Ambient temperature:-25℃~+40℃
- 2.3 Relative humidity: monthly average not exceeding 90%,daily relative humidity not exceeding 95%
- 2.4 Earthquake level not exceeding 8 class.
- 2.5 Without corrosion,explosion and chemical matter.

3. Type designation



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4. Specifications

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Serial number	Item	Unit	Data		
			31.5kA	40kA	50kA
1	Rated voltage	kV	12/17.5/24kV		
2	Maximum working voltage	kV	12		
3	Rated current	A	1250, 1600, 2000, 2500	1250, 1600, 2500, 3150	1250, 2500, 3150
4	Rated short-circuit break current	kA	31.5	40	50
5	Rated short-circuit close current (peak value)	kA	80	100	125
6	Rated withstand current (peak value)	kA	80	100	125
7	4S Rated little withstand current	kA	31.5	40	50
8	Rated insulation level	Industrial frequency withstand voltage	42/50/60		
		Thunder impulse withstand voltage	75/95/125		
9	Rated operation order		Off-0.3S on and off-180S-on and off		
10	Mechanical life	times	10000		
11	Rated short-circuit current break and close time	times	50		
12	Speak and move organization amount assign the current of the floodgate(DC)	V	110,220		
13	Speak and move organization amount equal to the voltage of the floodgate(DC)	V	110,220		
14	Switching distance of the contact	mm	≥11		
15	Ultra journey(touches the head springand compress length)	mm	4±0.5		
16	Three-phase breaking into 、 shut floodgate sex of the same period	ms	≤2		
17	Touch the head and shut a floodgate of time of bouncing	ms	≤2		
18	Average speed of breaking brake	m/s	0.9~1.2		
19	Average speed of closing brake	m/s	0.6~0.8		
20	Time of breaking brake	Operate it under the voltage highest	≤0.05		
		Operate it under the voltage lowest	≤0.08		
21	Time of colsing brake	s	≤0.1		
22	Each the resistance of main return circuit	μ Ω	≤40		
23	Allowance abrasion cumulated thickness of the moving and stationary contact	mm	3		