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ZN63A(VS1)-24

Indoor High Voltage Vacuum Circuit Breaker



Overview

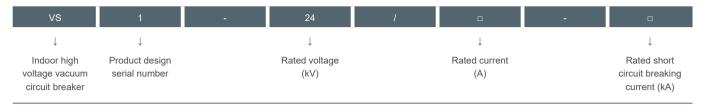
ZN63(VS1)-24 series indoor AC MV vacuum circuit breaker is an indoor switchgear for three-phase AC 50Hz,rated voltage 4KV power system. The market combines years of professional production experience to develop and design a new generation of vacuum circuit breakers.

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Model meaning



Main technical parameters

Item	Units	Argument		
Rated voltage		24		
Rated short-term power frequency withstand voltage (1min)	kV	65/79(alternating, facing ground/fracture)		
Rated lightning impulse withstand voltage (peak value)	-	125/145(alternating, ground/fracture)		
Rated frequency	Hz	50		
Rated current	A	630 1250	630 1250 1600 2000 2500 3150	630 1250 1600 2000 2500 3150
Rated short-circuit breaking current	- kA	20/25	31.5	40
Rated short-time withstand current		20/25	31.5	40
Rated short-circuit duration	S	4		
Rated peak withstand current	- kA	50/63	80	100
Rated short-circuit closing current		50/63	80	100
Power frequency withstand voltage of the secondary circuit (1 minute)	V	2000		
Rated breaking current of single/back-to-back capacitor banks	Α	630/400(40kA is 800/400)		
Rated capacitor bank closing inrush current	kA	12.5(Frequency not exceeding 1000Hz)		
Mechanical life	Frequency	20000		
Rated current breaking times (electrical life)		20000		
Rated short-circuit current breaking times	-	50(40kA ≤ 30)		
The cumulative allowable wear thickness of the moving and static contacts	mm	2		
Energy storage time	S	≤ 10		
Contact opening distance	- mm	16±1		
Overtravel		3.5±0.5		
Contact closing and bouncing time	ms	≤2		
The asynchronous opening and closing of the three phases		≤2		
Average opening speed (contact separation -8mm)	ma la	1.5±0.2		
Average closing speed (8mm- contact closure)	m/s	0.8±0.2		
Resistance of the dominant electrical circuit	μΩ	≤ 50(630A) ≤ 45(1250A); ≤ 35(1600-2000A) ≤ 25(2500A)		
Rated operating sequence		Score -0.3 Combined score 180s- combined score		

External mounting dimension (mm)

