

ZN63A (VS1) -12 series indoor high voltage vacuum circuit breaker is rated voltage 12kV, three-phase AC 50Hz Indoor high-voltage switchgear, applicable to power stations, substations, and industrial and mining enterprises to control or protection transmission and distribution systems, specially for the important high altitude breaking load and frequent operation place and reliable interlock function.

The operating mechanism is for the spring energy storage type, can use AC and DC energy storage operations, can also be used manually. This product can be equipped with long life permanent magnetic actuator, can be used for extremely frequent operation place. It conforms to National Standard GB1984-2003, and the related IEC standards.

It's designed to repackage the structure before and after, both can be used as a fixed installation unit, also be equipped with the chassis as used in the mounted, handcart unit.

Environment Condition:

- Ambient temperature:-15℃~+40℃
- Altitude: ≤1000m
- Daily average relative humidity: ≤95%
- Monthly average relative humidity: ≤90%
- Earthquake intensity: ≤10 degree
- No fire, explosion, severe vibration, chemical corrosion and serious pollution

Technical Data

1	Rated voltage	KV	12
2	Rated frequency	HZ	50/60
3	Rated Current	A	630,1250,1600, 2000, 2500, 3150
4	Rated short-circuit breaking current	KA	20, 25, 31.5, 40
5	Rated short-circuit closing current (peak)	KA	50, 63, 80,100
6	Rated short time withstand current	KA	20, 25, 31.5, 40
7	Rated short-circuit duration	s	4
8	Nos. of rated short-circuit breaking current	Times	50 (30 above 40KA)
9	Rated operating sequence		0-0.3s-CO-180s-CO/ 0-180s-CO-180s-CO(Above 40KA)
10	Rated lightning impulse withstand voltage	KV	75
11	1min power frequency withstand voltage	KV	42
12	Closing time	ms	≤ 70
13	opening time	ms	≤ 50
14	Mechanical life	Times	30000
15	Rated breaking current of single capacitor bank	A	630
16	Rated breaking current of back to back capacitor bank	A	400
17	Contact open distance	mm	11±1
18	Contact Over-travel	mm	3.5±1
19	Rated switch-on/off operating voltage	V	AC110/220,DC110/220
20	Switch-off (rated voltage)	ms	20~60
21	Switch-on (rated voltage)	ms	30~70
22	Motor rated power	W	70 (above 40KA: 100W)
23	Closing speed	m/s	1.0±0.2
24	Opening speed	m/s	1.3±0.2

25	Contact closing spring time	ms	≤ 2
26	Rated contact pressure	N	20KA(2400±200) 25KA (2400±200) 31.5KA(3100±200)
27	Three phase closing opening asynchrony	ms	≤ 2

Outline Dimension

