

ZN63 (VS1) -24 series indoor high voltage vacuum circuit breaker with embedded poles is applied to three phase AC50 HZ indoor power distribution equipment with the rated voltage of 24 KV. It's used for protecting and controlling the electrical equipment in the fields of industry and mining enterprise, power plants and substation. The main conductive circuit of this type vacuum circuit breaker with spring mechanism is embedded pole, that can greatly improve the reliability of insulation, mechanical and breaking performance and really realize the free-maintenance and longer mechanical and electrical life.

This type vacuum circuit breaker conforms to National standards and the stipulations of IEC standard. The capability reaches grade of M-E2-C2. The product is used for many kinds of switchgear like KYN28-24(GZS1) and can be fixed installation.

**Environment Condition:**

- Ambient temperature:-10℃~+40℃
- Altitude: ≤1000m
- Daily average relative humidity: ≤95%
- Monthly average relative humidity: ≤90%
- Earthquake intensity: ≤10 degree
- Saturated vapor pressure: Daily average pressure : ≤2. 2kPa; Monthly average pressure: ≤1.8kPa
- No fire, explosion, severe vibration, chemical corrosion and serious pollution

**Technical Data**

1	Rated Voltage	KV	24	
2	Rated current	A	630,1250,1600, 2000, 3150	
3	Rated short circuit breaking current	KA	20, 25, 31.5	
4	Rated short circuit closing current (peak)	KA	50, 63, 80	
5	Rated peak value withstand current	KA	50, 63, 80	
6	Rated short time withstand current (4s)	KA	20, 25, 31.5	
7	Rated insulation level	Power frequency withstand voltage	KV	65
8		Impulse withstand voltage		125
	Rated sequence of operations			O-0.3s-CO-180s-CO
9	Mechanical life	Times	10000	
10	Nos. of rated short circuit breaking current	Times	50	
11	Operating voltage	V	110,220(DC or AC)	
12	Contact distance	mm	14±1	
13	Over travel (contact spring reduction length)	mm	3.5±1	
14	Three-phase opening/closing asynchronous	ms	≤2	
15	Contact switch on bounce time	ms	≤2	
16	Average opening speed	m/s	1.0±0.2	
17	Average closing speed	m/s	1.3±0.2	
18	Opening time	with max operation voltage	s	<0.05
		with min operation voltage		<0.08
19	Closing time	s	<0.1	

Outline Dimension

