

VS1(ZN63A)-12/T

型真空断路器  
Type Vacuum Circuit Breaker



产品概述

VS1（ZN63A）-12/T 型断路器是我公司长期规模化生产的一种经典真空断路器，该产品采用复合绝缘或固封极柱配一体化弹簧操动机构，保证了稳定的电气性能与机械性能。该型断路器符合 M2、E2、C2 级断路器的要求，符合断路器 GB、DL、JB、IEC 等标准的规定，经过我公司长期规模化生产，该系列产品具有通配性强、系列规格全、质量稳定、性价比高等特点。

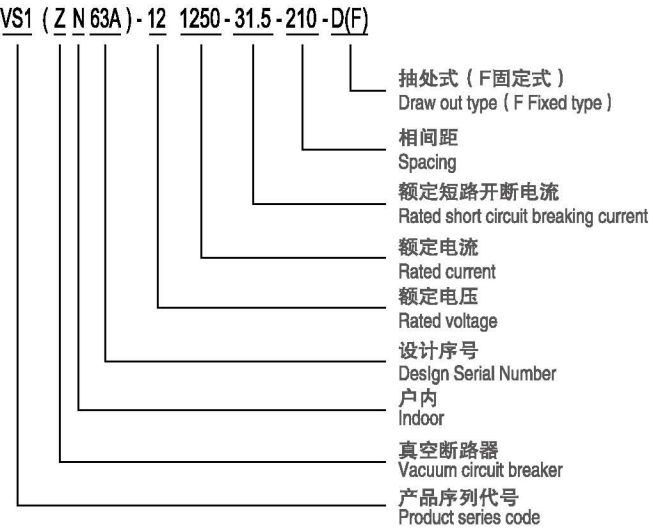
VS1（ZN63A）-12/T 型真空断路器是三相交流 50Hz、额定电压 3.6~12kV 户内高压开关设备，供工矿企业、发电厂及变电站作为控制和保护之用，并适用于频繁操作的场合。具备完善的机械及电气联锁功能，适配国内主流开关柜使用。该产品性能优异，广泛用于：工业：化工、冶金、建筑业、制造业；民用：住宅小区、医院、企业单位配电；交通：地铁、高速铁路道等。

Product Summary

VS1(ZN63A)-12/T vacuum circuit-breaker is our company's long-term production of a classic vacuum circuit breaker, this product adopts composite insulating pole or solid sealed pole distribution integrated spring operating mechanism, ensure the stability of the electrical and mechanical properties. This type of circuit breaker with M2、E2、C2 circuit breaker with breaker, GB, DL, JB, IEC and other standards, through my company long-term large-scale production, the series of products has general distribution and strong, full specifications, quality and stability, a series of cost-effective high.

VS1(ZN63A)-12/T vacuum circuit-breaker with permanent magnetic actuator mechanism is a control and protect device that is applicable for 3phases, 50(60) Hz, 3.6~12kv rated power supply system. It can be used in power system of industrial and mining establishments, power plant, substations and other systems where the switching frequency in the operating current range is high. This product performance is outstanding, widely uses in: industry: Chemical industry, metallurgy, architecture industry, manufacturing industry. Civil: Residential district, hospital, Enterprise unit power distribution. Transportation: Subway, high speed railroad etc.

型号说明 Model Explanation



环境条件 Environmental Conditions

- 环境温度：不高于 +40℃，不低于 -15℃。且 24h 内平均温度不超过 +35℃。
  - 海拔高度：海拔不超过 1000m。
  - 相对湿度：日平均值不超过 95%，月平均值不超过 90%。
  - 地震烈度：不超过 8 度。
  - 水蒸气压力：日平均值不超过 2.2kPa，月平均值不超过 1.8kPa。
  - 无火灾、爆炸危险、严重污秽、化学腐蚀及剧烈震动的场所。
1. Ambient Temperature: No more than +40℃，No less than -15℃ .  
Average temperature no more than +35℃ within 24 hours.  
2. Altitude: No more than 1000m.  
3. Relative Humidity: Average humidity no more than 95% within one day, Average humidity no more than 90% within one month.  
4. Earthquake Intensity: No more than 8 degrees.  
5. Vapor Pressure: Average pressure no more than 2.2kPa within one day, Average pressure no more than 1.8kPa within one month.  
6. No fire, explosion danger, serious dirt, chemical corrosion and violent vibration for product installed place.

技术参数

Technical Parameters

序号 Sr.	项目 Item	单位 Unit	数值 Value			
1	额定电压 Rated voltage	kV	12			
2	额定频率 Rated frequency	Hz	50			
3	额定短时工频耐受电压 (1min) Rated short-time power frequency withstand voltage (1min)	kV	42			
4	额定雷电冲击耐受电压 Rated lightning impulse withstand voltage	kV	75			
5	额定电流 Rated current	A	630~4000			
6	额定短路开断电流 Rated short circuit breaking current	kA	20/25/31.5/40/50			
7	额定短时耐受电流 (4s) Rated short-time withstand current	kA	20/25/31.5/40/50			
8	额定短路关合电流 Rated duration of short-circuit	kA	50/63/80			
9	额定短路持续时间 Rated duration of short-circuit	s	4			
10	额定短路开断电流直流分量 Rated short circuit breaking current of the DC component	%	40			
11	额定电缆充电开断电流 Rated cable-charging breaking current	A	50			
12	额定操作顺序 Rated operating sequence		O-0.3s-CO-180s-CO			
13	额定单个 / 背对背电容器组开合电流 Rated Single unit/back to back capacitor bank making current		400/630 (可协商) (Negotiable)			
14	分闸时间 Opening time	ms	20-50			
15	合闸时间 Closing time	ms	35-70			
16	合闸弹跳时间 Closing bounce time	ms	≤2(40、50kA≤3)			
17	三相合分不同期时间 3 phase open and close synchronism	ms	≤2			
18	分闸速度 (分闸后 6mm) Opening speed(contact stroke-15mm)	m/s	0.9-1.2			
19	合闸速度 Closing speed	m/s	0.5-0.8			
20	触头反弹幅值 Contact bounce amplitude	mm	≤2			
21	机械寿命 Mechanical life	次 /Times	30000(40kV 及以上 10000) 10000 times in 40kA			
22	触头开距 Clearance between open contacts	mm	9±1			
23	触头超行程 Contact over travel	mm	3.5±0.5			
24	主导回路电阻 Main electric circuit of resistance	μΩ	630	1250	1600-2000	2500-4000
			45	40	35	25
25	额定操作电压 Rated operation voltage	V	AC 110/220 DC110/220			
26	储能电机额定电压 Energy-storage motor rated voltage	V	AC 110/220 DC110/220			
27	储能时间 Energy storage time	s	≤10			
28	储能电机功率 Energy storage motor power	W	80			

注：4000A 需强制风冷。 Note: Air cooling is necessary when in 4000A.