

## 产品特点 Features

VS1-12型(侧装式型)户内高压真空断路器,系三相交流50Hz额定电压为12kV电力系统的户内开关设备,作为电网设备、工矿企业动力设备的保护和控制单元。适用于要求在额定工作电流下的频繁操作,或多次开断短路电流的场所。

该断路器采用操动机构与断路器本体一体化设计,既可作为固定安装单元,也可配有专用推进机构,组成手车单元作用。

VS1-12 type (side-mounted type) indoor high voltage vacuum circuit breaker, three-phase AC 50Hz rated voltage indoor switchgear for the 12kV power system, grid equipment, industrial and mining enterprises, power equipment, protection and control unit. Apply to the requirements of the frequency of operation under the rated operating current or repeatedly breaking the short circuit current place.

The circuit breaker actuator and the circuit breaker body-in-one design, either as a fixed installation unit can be equipped with a special advance mechanism, the composition of the role of the withdrawable unit.

## 型号含义 Type meaning

VS 1 12 / □-□-□

VS	固定式	Fixed
1	额定短路开断电流(KA)	Rated short-circuit breaking current
12	额定电流(A)	Rated current (A)
/	额定电压(kV)	Rated voltage (kV)
□	设计序号	Design number
-□-□	户内真空断路器	Indoor vacuum circuit breaker

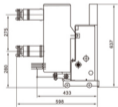
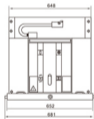
## 使用环境 Using environment

- 周围空气温度: 上限40℃, 下限-30℃
  - 海拔: ≤1000m(若需增高海拔, 则额定绝缘水平相应提高)
  - 振幅: 地震烈度8度
  - 空气相对湿度日平均值不大于95%, 月平均值不大于90%
  - 无火灾、爆炸危险、严重污染、化学腐蚀及剧烈震动的场所
- Ambient temperature: lower than 40 °C, higher than -30 °C
  - Altitude: ≤ 1000m (For higher altitude, is a corresponding increase in the rated insulation level)
  - Amplitude: 8 degree earthquake intensity
  - Air relative humidity daily average not greater than 95%, on average less than 90%
  - No fire, explosion hazard, serious pollution, chemical corrosion and violent vibration of the place

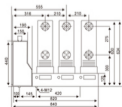
## 技术参数 Technology parameter

序号 NO.	名称 Name	单位 Unit	数据 Data				
1	额定电压 Rated voltage	kV	12				
2	额定频率 Rated frequency	Hz	50				
3	额定绝缘水平 Rated insulation	1min工频耐压 1min Power frequency withstand voltage 雷电冲击耐压(峰值) Lightning impulse withstand voltage(peak value)	kA	对地/相间(To ground/phase to phase)42/48			对地/相间(To ground/phase to phase)75/85
4	额定短路开断电流 Rated short-circuit breaking current	kA	20	25	31.5	40	
5	额定电流 Rated current	A	630	630	1250 1600	1250 1600	
6	额定短时耐受电流(有效值) Rated short-circuit withstand current(values)	kA	20	25	31.5	40	
7	额定峰值耐受电流(峰值) Rated peak withstand current(peak value)	kA	50	63	80	100	
8	额定短路关合电流(峰值) Rated short-circuit closing current(peak value)	kV	50	63	80	100	
9	额定短路持续时间 Rated short-circuit duration	S	4				
10	机械寿命 Mechanical life	次Time	20000				
11	二次回路工频耐受电压(1min) Secondary loop power frequency withstand voltage(1min)	V	2000				
12	额定操作顺序 Rated operating sequence		Off分-t-on/off合分-t1-on/off合分				

## 外形尺寸及安装图 Outline and installation dimensions



户内高压真空断路器安装尺寸图



侧装式户内高压真空断路器安装尺寸图