

SCHVB43-12W/Z

小型化户外真空断路器 (看门狗)
Miniaturized outdoor vacuum circuit breaker (guard dog)



适用范围

Application

SCHVB43-12W/Z 型小型化户外高压真空断路器(看门狗)(以下简称断路器)是三相交流 50Hz,适用于额定电压为 7.2~12kV 的户外高压开关设备。断路器符合国标 GB1984《高压交流断路器》及专业标准 JB3855《3.6~40.5kV 户外交流高压真空断路器》和相关的 IEC 标准。可供工矿企业、发电厂以及变电站作电气设备的控制和保护之用,及农村电网频繁操作的场所。断路器具有多次开断和快速重合闸的能力。

SCHVB43-12W/Z type miniaturization of outdoor high vacuum circuit breaker (guard dog) (hereinafter referred to as the circuit breaker) is three-phase ac frequency 50 Hz, rated voltage of 7.2~12 kV outdoor high voltage switch equipment. Circuit breaker meet the national GB1984 the high-voltage ac breaker "and professional standard JB3855" 3.6 ~40.5 kV voltage vacuum circuit breaker outdoor exchange "and relevant IEC standard. For industrial enterprise, power plants and substation of electrical equipment for control and protection with, and rural power grid frequent operation place. Circuit breaker has repeatedly open circuit and fast reclose ability.

使用环境

The use of environmental conditions

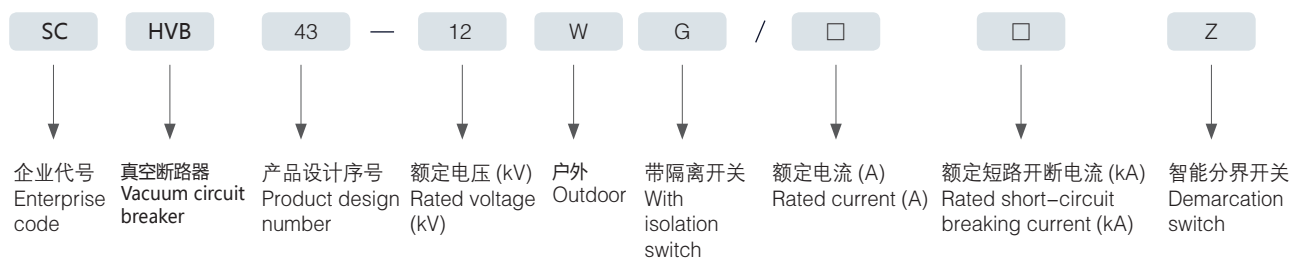
- 环境温度:不高于 +40 °C,不低于 -40 °C;
 - 空气相对湿度:日平均值不大于 95%,月平均值不大于 90%;
 - 海拔高度不超过 2000 米;
 - 风压不超过 700Pa(相当于风速 34m/s);
 - 地震烈度不超过 8 级;
 - 无火灾、爆炸、严重污秽、化学腐蚀以及剧烈震动的场所。
- 客户如有其它特殊要求,可在订货时提出,我公司可给予最大满足。

- Environmental temperature:no higher than +40°C ,no less than -40 °C ;
- Air relative humidity: day average no greater than 95%, on average less than 90%;
- The altitude does not exceed 2000 m;
- Wind pressure not more than 700 Pa (equivalent to wind speed 34 m/s);
- Seismic intensity not more than eight level;
- No fire, explosion, serious filthy, chemical corrosion and violent vibration of places.

If the customers have other special requirements, can be in order to put forward, our company can offer most satisfied.

断路器型号、名称及含义

Type of circuit breaker, the name and meaning



产品特点

Features

- 该断路器由三相支柱、机构箱组成，结构简单明了，三相支柱及电流互感器采用户外环氧树脂固体或硅橡胶绝缘，具有而高低温、耐紫外线、耐老化等优点；采用小型化弹簧操动机构，分合闸能耗低、机构传动输出采用主轴滑动方式，无扭力损耗，分合传动件少，可靠性高；电流互感器安装于动端出线，二次采用插拔结构，维护更换方便。
 - 断路器开断性能稳定可靠，具有无燃烧和爆炸危险、运行安全、免维护、体积小、重量轻 (<100kg) 和使用寿命长等特点。
 - 断路器采用全封闭结构，密封性能好，有防潮、防凝露性能，适应于高温潮湿地区使用。
 - 断路器的合、分闸可手动或电动操作及远方操作。可与控制器配套实现配电自动化，也可与重合控制器配合组成重合器。
 - 操作机构密封在开关箱体内部，可以有效地避免开关因长期户外环境下而引起的机构锈蚀。操作机构新颖、简单、动作可靠、体积小、机械寿命可达 1 万次以上。
 - 可加装户外隔离开关和断路器形成一体化，断路器与隔离开关具有可靠的机械联锁装置。
- The circuit breaker by three-phase support, body box, simple structure, three-phase support and current transformer using outdoor epoxy resin solid or silicone rubber insulated, having high and low temperature, resistance to ultraviolet light and aging resistance, etc.; the small spring operating mechanism, on-off brake low energy consumption, transmission output spindle sliding mode, no torque loss, and driving less, high reliability; current transformer is installed on the movable end outlet, a two time using inserting-dialing structure, convenient maintenance and replacement.
 - The interrupting performance is stable and reliable, has no combustion and explosion risk, safe operation, maintenance free, small size, light weight (<100kg) and long service life etc..
 - The circuit breaker adopts a totally enclosed structure, good sealing performance, moisture-proof, anti condensation performance, suitable for hot and humid area.
 - Breaker, switching can be manual or electric operation and remote operation. With the controller supporting implementation of distribution automation, and can also be composed with recloser recloser controller.
 - Operating mechanism is sealed in the switch box body, which can effectively avoid the switch for long-term outdoor environment mechanism caused by the corrosion. Operating mechanism of novel, simple, reliable operation, small size, mechanical life of up to 10000 times.
 - Can be arranged outdoor isolating switch and circuit breaker to form integration, circuit breaker and isolating switch has reliable mechanical interlocking device.

主要技术参数

Mainly technical parameters

断路器的主要技术参数 The main technical parameters of

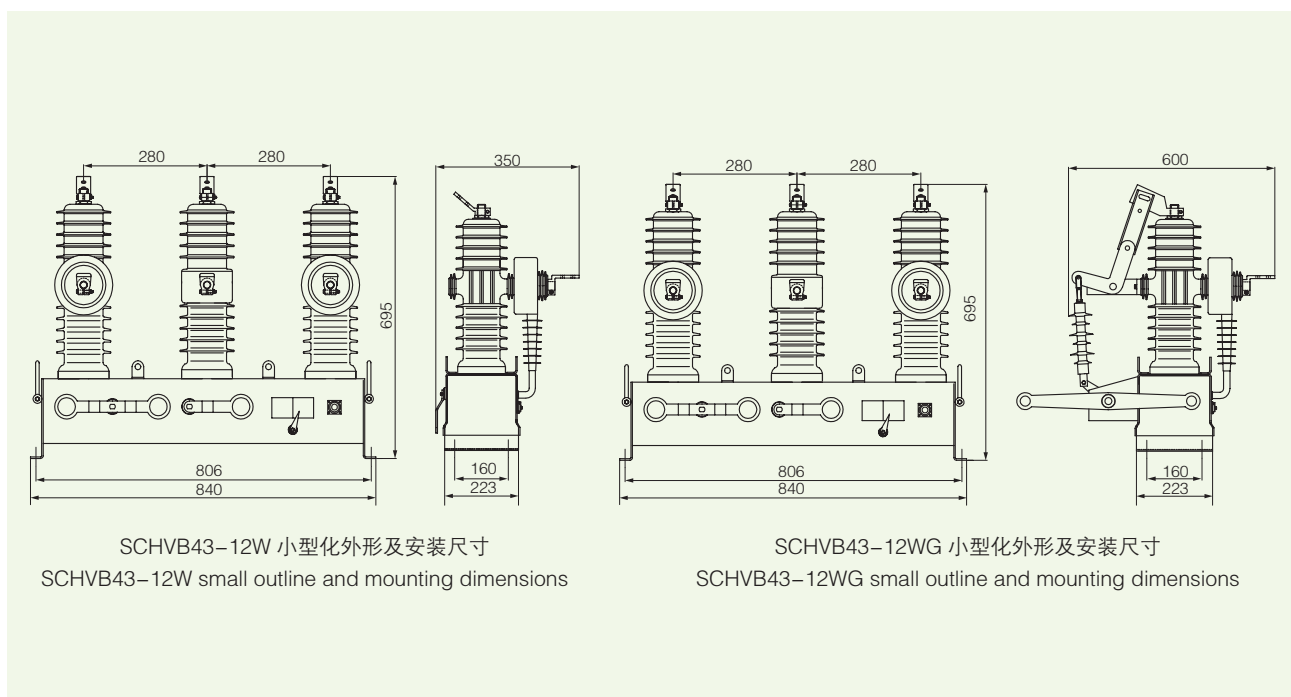
序号 No.	项目 Item	单位 Unit	数值 Number of values	
1	额定电压 Rated voltage	kV	12	
2	额定电流 Rated current	A	630、1250	
3	额定频率 Rated frequency	Hz	50	
4	工频耐压 (1min) Power frequency withstand voltage (1min)	干试 (相间、对地 / 断口) Dry test (white/ fracture) 湿试 (对地、外绝缘) Wet again(on the ground outside the insulation)	42/48	
			34	
5	雷电冲击耐受电流 (峰值) (相间、对地 / 断口) Lightning impulse withstand current (peak) (white/fracture)	kV	75/85	
6	额定短路开断电流 Rated short-circuit breaking current	kA	20	25
7	额定短路关合电流 (峰值) Rated short-circuit current (peak)	kA	50	63
8	额定峰值耐受电流 Rated peak withstand current	kA	50	63
9	4S 短时耐受电流 4S short-time withstand current	kA	20	25
10	额定操作循环 Rated operating cycle		分 - 0.3s - 合分 - 180s - 合分 Sub-0.3s-Hop sub-180s-Hop sub-	
11	额定短路电流开断次数 Rated short-circuit current breaking time	次 Times	30	
12	机械寿命 Mechanical life	次 Times	10000	
13	二次回路 1min 工频耐压 Secondary circuit 1min power frequency withstand voltage	kV	2	

断路器的主要机械参数 The main mechanical parameters of the circuit breaker

序号 No.	参数名称 Parameter name	单位 Unit	数值 Number of values
1	触头开距 Contact opens the distance	mm	9 ± 1
2	触头超行程 Contact ultra- travel	mm	2.5 ± 1
3	分闸速度 Opening speed	m/s	1.1 ± 0.3
4	合闸速度 Closing speed	m/s	0.6 ± 0.2
5	触头合闸弹跳时间 Contact closing bounce time	ms	≤ 2
6	相间中心距离 White center distance	mm	280 ± 2
7	三相分合闸不同期性 Three-phase of opening and closing of	ms	≤ 2
8	各相导电回路电阻 Each phase conductive loop resistance	$\mu \Omega$	< 80 (带隔离刀 150) < 80 (with isolation knife 150)
9	重量 Weight	kg	约 70 About 70

外形及安装尺寸

General structure drawing and installation size



订货需知

Ordering

- 产品型号、名称及参数;
- 断路器操作方式: 手动、电动及电源参数;
- 电流互感器的数量、参数;
- 数量及交货期;
- 备品、备件名称、数量。
- Product model, name and parameters;
- Circuit breaker operating mode: manual and electric power supply, power parameters;
- Current transformer, the number of parameters;
- Number and date of delivery;
- Spare parts, spare parts name, quantity.