



CSQ® 寺崎



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High Voltage
Circuit Breaker
高压断路器



寺崎科技有限公司成立于 2001 年，座落在乐清经济开发区纬三路，占地面积 6000m²，建筑面积 15000m²。本公司现有员工 150 多人，注册资金 5000 万元，年产值近亿元。本公司生产：双电源自动转换开关、塑料外壳式断路器、小型断路器、漏电断路器、万能式断路器、负荷隔离开关、电气火灾监控系统、电力仪表、电涌保护器、消防设备电源监控系统、控制与保护开关电器等产品的国家高新技术企业。

自建厂以来，一直贯彻“科技、创新、奉献”的企业理念，全面发展、追求卓越，在新产品开发、产品质量提高、服务质量完善、人力资源等投入方面，不遗余力，锐意进取。始终将企业自身的利益与社会的需求紧密结合相连，积极实践“为客户创造价值，为员工创造机会，为社会创造效益”的企业宗旨，为社会提供一流的产品和优质的服务。在日趋激烈的市场竞争中，寺崎的品牌知名度、美誉度及市场占有率，居全国同行业的前列，并通过了 ISO9001、ISO14001、ISO18001 质量体系认证、CCC、CCCF 产品强制认证和 CB 认证，拥有多个外观及实用新型专利及三项发明专利，产品由中国人民保险公司承保。

目前，公司在国内已建立了多级经销网络及完善的售后服务体系，更好地为消费者服务，并持续与全国各级经销商团结奋进，风雨同舟，共同发展，开创行业新天地，谱写寺崎新篇章。

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ZN63(VS1)-12KV
真空断路器 Vacuum ircuit breaker



产品概述 Product description

VS1-12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式设计，既可作为固定安装单元，也可配有转悠推进机构，组成手车单元作用。

VS1-12 indoor high-voltage vacuum circuit breaker is an indoor switchgear with a three-phase AC 50Hz rated voltage of 12kV power system, as a protection and control unit for power grid equipment and industrial and mining enterprise power equipment. It is suitable for places requiring frequent operation under rated working current, or multiple interruption of short-circuit current.

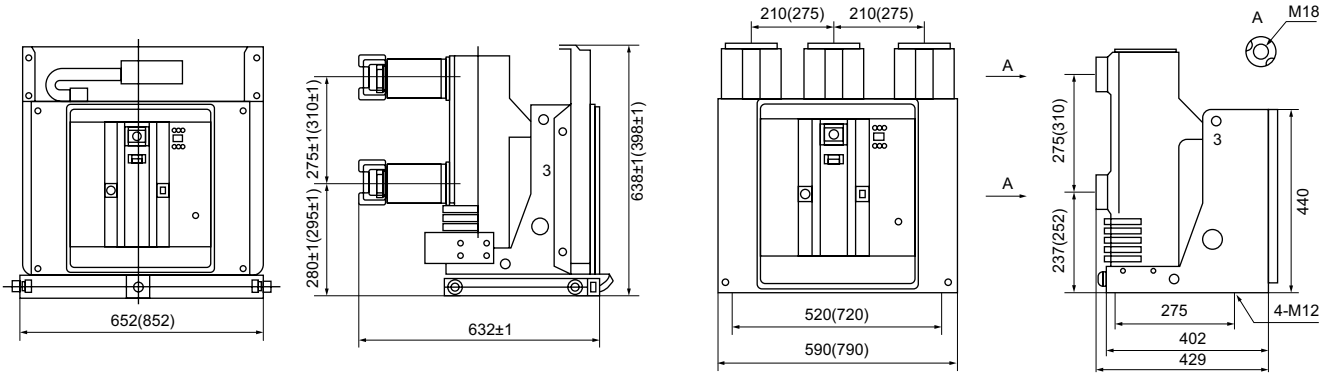
The circuit breaker adopts an integrated design of the operating mechanism and the circuit breaker body, which can be used as a fixed installation unit, and can also be equipped with a turning propulsion mechanism to form a handcart unit.

技术参数(1) Technical parameter(1)

项目Items	单位Unit	数据Data			
		20KA	25KA	31.5KA	40KA
额定电压 Rated voltage	KV	12			
最高动作电压 Maximum working voltage	KV	12			
额定电流 Rated current	A	630-1250	630-1250	630-2000	1250-4000
额定短路开断电流 Rated short circuit breaking current	KA	20	25	31.5	40
额定短路关合电流 Rated short-circuit close current	KA	50	63	80	100
额定峰值耐受电流 Rated peck withstand current	KA	50	63	80	100
4S额定短路耐受电流 4S rated short=circuit withstand	KA	20	25	31.5	40
额定绝缘水平 Rated insulation level	KV	42（断口48） 42（Fracture 48）			
		75（断口84） 75（Fracture 84）			

技术参数(2) Technical parameter(2)

项目Items		单位Unit	数据Data			
			20KA	25KA	31.5KA	40KA
额定操作顺序 Rated operating sequence			分-0.3S-合分-180S-合分 0-0.3s-co-180s-co			
机械寿命 Mechanical life		次 Times	20000			
额定短路开断电流开断次数 Rated short-circuit current breaking times		次 Times	50			
操动机构额定合闸电压（直流） Rated operating mechanism closing voltage(DC)		V	AC、DC 110、220			
操动机构额定分闸电压（直流） Actuator voltage of the floodgate(DC)		V	AC、DC 110、220			
触头开距 Contact stroke		mm	11 ± 1			
超行程（触头弹簧压缩长度） Overtravel(the length of contact spring compression)		mm	3.5 ± 0.5			
三相分、合闸不同期性 Three-phase points,closing phase of the different		ms	≤2			
触头合闸弹跳时间 Contact closing bounce time		ms	≤2			
平均分闸速度 Average opening speed		m/s	0.9-1.2			
平均合闸速度 Average closing speed		m/s	0.5-0.8			
分闸时间 Tripping Time	最高操作电压下 Maximum operating voltage	s	≤0.05			
	最低操作电压下 Minimum operating voltage		≤0.08			
合闸时间 Closing time		s	0.1			
各相主回路电阻 The main circuit resistance of eatch phase		uQ	630≤50 1250≤45		630-2500≤45 3150≤35	
动静触头允许磨损累计厚度 Allowed comision thickaess for fixed and mouable contacts		mm	3			



ZN85-40.5

户内高压真空断路器 Indoor high voltage vacuum circuit breaker



产品概述 Product description

ZN85-40.5系列户内高压真空断路器(以下简称断路器), 适用于三相交流50Hz、额定电压40.5kV电力系统中, 可供工矿企业、发电厂及变电站作为分合负荷电流、过载电流、故障电流之用。

断路器与操动机构采用上下布置结构, 有效地降低了断路器的深度。

三项灭弧室和相联带电体有三只独立的环氧树脂绝缘筒相隔离, 构成复合绝缘结构, 断路器满足正常运行条件下的空气距和爬距要求, 并有效地减少了断路器的体积。主导点回路真空灭弧室和动静导电连接安装在绝缘筒内, 使相间距仅为300mm。竹辉路电器连接全部采用固定式链接, 具有很高的可靠性。绝缘筒安装在断路器框架上方。

为这种新型断路器专门设计的弹簧操动机构, 安装在断路器框架内, 其结构特点更适合断路器的上下布置形式, 并成为断路器整体结构中不可分割的一部分。机构设计简单, 输出曲线及其性能更适合40.5kV真空断路器的特点和要求。

总体布局合理、美观、简洁。体积小、操作灵活, 具有电气性能可靠、使用寿命长、检修方便、机构免维护的特点。

该断路器适用于频繁操作及多种场合和运行条件比较苛刻的场所。

ZN85-40.5 series indoor high voltage vacuum circuit breaker (hereinafter referred to as circuit breaker), suitable for three-phase AC 50Hz, rated voltage 40.5kV power system, can be used for industrial and mining enterprises, power plants and substations as switching load current, overload current, Use of fault current.

The circuit breaker and the operating mechanism are arranged up and down, which effectively reduces the depth of the circuit breaker.

The three-phase arc extinguishing chamber and the associated live body are separated by three independent epoxy resin insulation cylinders to form a composite insulation structure. The circuit breaker meets the air distance and creeping distance requirements under normal operating conditions, and effectively reduces the circuit breaker's volume. The main point loop vacuum interrupter and the static and dynamic conductive connection are installed in the insulating cylinder, so that the phase distance is only 300mm. All electrical connections of Zhuhuilu adopt fixed links, which have high reliability. The insulating cylinder is installed above the circuit breaker frame.

The spring operating mechanism specially designed for this new type of circuit breaker is installed in the circuit breaker frame. Its structural characteristics are more suitable for the up and down arrangement of the circuit breaker and become an integral part of the overall structure of the circuit breaker. The mechanism design is simple, and the output curve and its performance are more suitable for the characteristics and requirements of 40.5kV vacuum circuit breakers.

The overall layout is reasonable, beautiful and concise. Small size, flexible operation, reliable electrical performance, long service life, convenient maintenance, and maintenance-free mechanism.

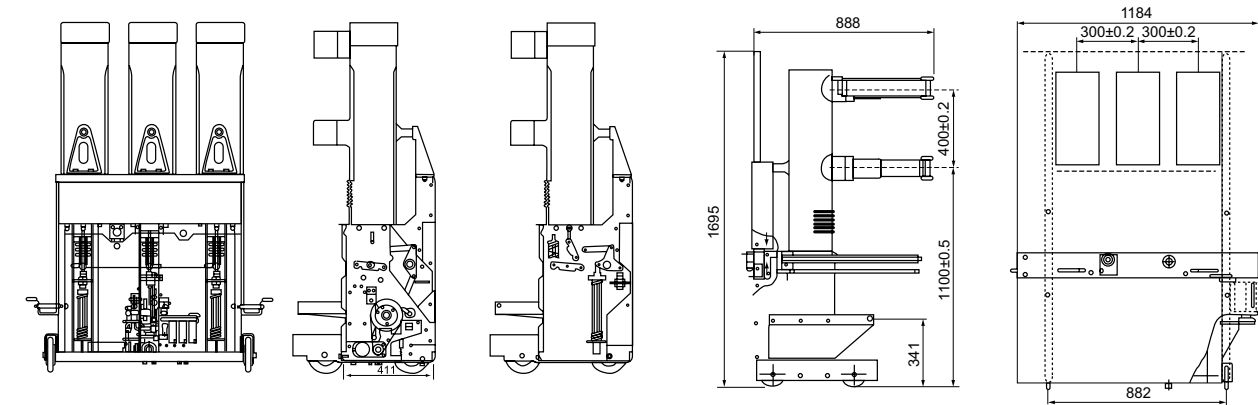
The circuit breaker is suitable for frequent operation and many occasions and places with harsh operating conditions.

正常使用条件 Normal use conditions

- 海拔: 不超过1000m;
 - 周围空气温度: 最高+40℃, 最低-10℃;
 - 相对湿度: 日平均值不大于95%, 月平均值不大于90%;
 - 水蒸气压: 日平均值不大于2.2kPa; 月平均值不大于1.8kPa;
 - 无火灾、爆炸危险、严重污染、化学腐蚀及剧烈振动的场所。
- Altitude: not more than 1000m;
 - Ambient air temperature: highest +40℃, lowest -10℃;
 - Relative humidity: daily average value is not more than 95%, monthly average value is not more than 90%;
 - Water vapor pressure: daily average value is not more than 2.2kPa; monthly average value is not more than 1.8kPa;
 - There is no fire, explosion hazard, serious pollution, chemical corrosion and severe vibration.

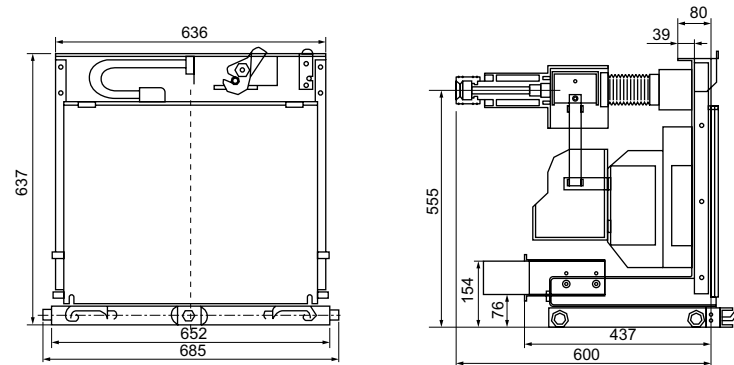
技术参数 Technical parameter

项目Items	单位Unit	数据Data
额定电压 Rated voltage	KV	40.5
额定电流 Rated current	A	2000
额定频率 Rated frequency	Hz	50
额定短路开断电流 Rated short circuit breaking current	kA	31.5
额定短路关合电流(峰值) Rated short-circuit close current		80
4S额定短路耐受电流 4S rated short=circuit withstand		31.5
额定峰值耐受电流 Rated pedk withstand current		80
1min工频耐压 1min power frequency withstand voltage	KV	95
雷电冲击耐压(峰值) Lightning impulse withstand voltage (peak)		185
额定操作顺序 Rated operating sequence		0-0.3s-CO-180s-CO
额定短路开断电流开断次数 Rated short-circuit breaking current breaking times	次Times	20
机械寿命 Mechanical life		10000
断开时间 Off time	ms	≤80
单个电容器组开断电流 Single capacitor bank breaking current	A	630
背靠背电容器组开断电流 Back-to-back capacitor bank breaking current		400
额定操作电压 Rated operating voltage	V	-110/~110, -220/~220



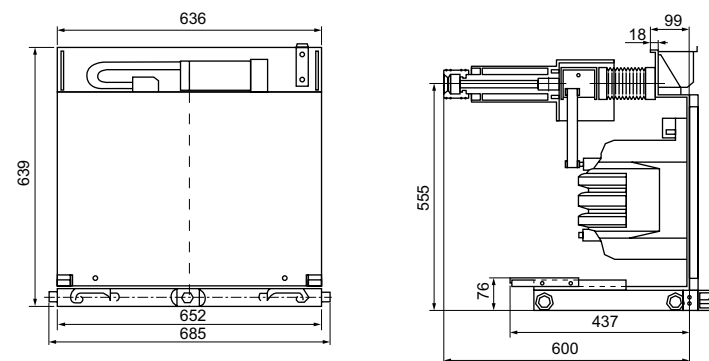
Voltage Transformer (PT) Handcart

电压互感器 (PT) 手车



PT+ lightning arrester handcart

PT+避雷器手车



Isolated handcart insulated cylinder type

隔离手车绝缘筒型

