

ZW32-12/M系列户外柱上永磁真空断路器

Outdoor HV Vacuum Circuit Breaker



产品概述 General



ZW32-12/M系列户外高压柱上永磁真空断路器为额定电压12kV, 三相交流50Hz的户外配电设备。主要用于开断、关合电力系统中的负荷电流、过载电流及短路电流, 适用于变电站及工矿企业配电系统中做保护和控制之用, 更适用于农村电网及频繁操作的场所。

断路器符合GB1984-2003《交流高压断路器》、JB3855-2008《3.6-40.5kV户内交流高压真空断路器》、DL403-91《10-35kV户内交流高压断路器订货技术条件》标准要求, 也符合IEC56相关要求。

ZW32-12/M series high-voltage pole-mounted permanent-magnetic vacuum circuit breaker for outdoor is an outdoor power distribution equipment suitable for systems of AC50Hz and rated voltage of 12kV. It is mainly used for making and breaking the load current, overload current and short-circuit current in power systems, application for protection and control of distribution systems in transformer substation and industrial and mining enterprises, especially suitable for rural power grids and other frequently operated locations.

This circuit breaker is in accordance with GB1984-2003 High-voltage Alternating-current Circuit Breaker, JB3855-2008 Indoor High-voltage Alternating-current Vacuum Circuit breaker of 3.6-40.5kV and DL403-91 Specification for Indoor High-voltage Alternating-current Circuit Breaker of 10-35kV also is in conformity with relevant requirements of IEC56.

结构及特点 Structure and Features

全密封结构: 密封性能好, 有助于提高防潮、防凝露性能, 适应于高温潮湿地区使用, 有效地避免开关因长期户外环境下引起的机械锈蚀。

真空灭弧室: 开断性能稳定可靠, 触头磨损小, 无易燃和爆炸危险、安全可靠、免维护。

脂环族户外专用环氧: 增强了潮湿条件下的绝缘稳定性、抗紫外线辐射引起的侵蚀, 适用于耐候要求高, 运行条件恶劣的环境。

断路器采用永磁操作机构, 零部件少、免维护、机械寿命达3万次以上, 可靠性高。

Full-enclosed structure has favorable sealing performance, helps to improve moistureproof and anti condensation performance, is applicable for high-temperature humid areas, effectively protect the switch from mechanical rust in outdoor for long time.

Vacuum arc-extinguishing chamber has stable and reliable breaking performance, little contact wear, free of flammable or explosive danger, free of maintenance, safe and reliable.

Special alicyclic epoxy resin strengthens insulating stability in humid condition, protects against erosion caused by ultraviolet radiation, is suitable for environment where has high weatherproof requirements and severe running conditions.

The circuit breaker adopts permanent-magnetic operating mechanism, has advantages of less parts, maintenance free, more than 30,000 times of mechanical life, high reliability.

特点 Features

体积小、重量轻、免维护、使用寿命长;

可选配隔离刀闸, 具有明显断开点;

可选配控制器实现自动重合闸, 重合次数及重合时间可任意选择, 具有速断保护, 定值可任意设置;

具有杆下遥控、电动及手动多种操作方式;

遥控合于故障分闸后自动闭锁;

可以实时监测线路的运行电流。

Small volume, light weight, maintenance free, long service life;

It can be equipped with disconnection switch, with obvious breaking point;

It can be equipped with controller to realize automatic reclosing, reclosing times and reclosing time can be selected randomly, with quick-break protection, and the fixed value can be set randomly;

Under-pole remote control, many operating modes such as electric and manual;

Remote control closes, and automatic locks after opening due to faults;

It is able to real-time monitor the running current of circuitries.

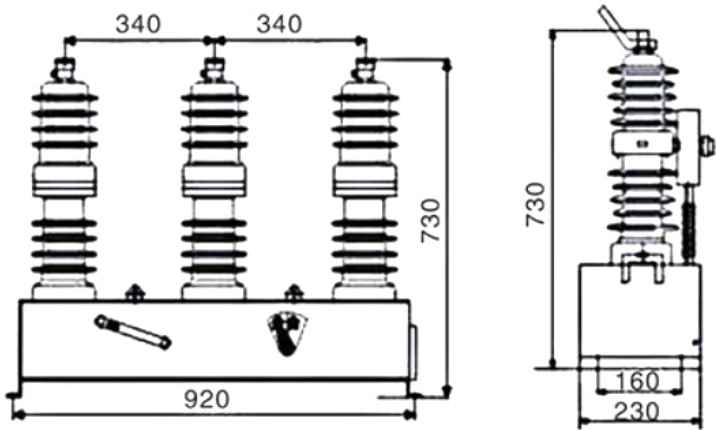
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主要技术参数 Main technical parameters

项目 Item	单位 Unit	参数 Parameterers
额定电压 Rated voltage	kV	12
额定绝缘水平 Rated insulation level	工频耐压(干试与湿试) Power frequency withstand voltage (dry test and wet test)	kV 42/断口48 34
	雷电冲击实验电压(峰值) Lightning impulse test voltage (peak)	kV 75/断口85
额定电流 Rated current	A	50 75 100 200 400 630 1250
额定短路开断电流 Rated short-circuit breaking current	kA	25 20 25 31.5
额定短路开断电流开断次数 Breaking times of rated short circuit breaking current	次 times	30
额定短时耐受电流 Rated peak withstand current	kA	25 20 25 31.5
额定短路关合电流(峰值) Rated short circuit making current (peak)	kA	63 50 40
额定峰值耐受电流 Rated peak withstand current		
额定短路持续时间 Rated short-circuit duration	S	4
机械寿命 Mechanical life	次 times	10000以上
分闸时间 Opening time	ms	<50
分闸时间 Closing time	ms	<60

外形尺寸及安装尺寸 Outline and installation dimension



(断路器安装尺寸图)
Drawing of Circuit Breaker Installation Dimension