



TZN1C-12 Series (系列)

户内侧装固封极柱 真空断路器

Indoor Laterally-installed Vacuum Circuit Breaker with Embedded Poles

产品概述 General

TZN1C-12系列户内侧装真空断路器适用于电压12kV、额定频率为50(60)Hz的电力系统的户内开关设备,用于投切各种不同性质的负荷及频繁操作规程的场所,可供工矿企业、发电厂及变电站电气设备的保护和控制之用。

TZN1C-12 series of indoor laterally-installed vacuum circuit breakers are used in the switchgear rated 12kV, 50(60)Hz. They are suitable for making different types of loads and frequent operation, to protect and control the electric equipments in industrial & mining enterprises, power plants and substations.

技术数据 Technical Data

序号 Number	项目 Item	单位 Unit	参数 Parameter	
1	额定电压 Rated voltage	kV	12	
2	额定频率 Rated frequency	Hz	50 (60)	
3	额定短时工频耐受电压 (1min) Rated short-time power frequency withstand voltage(1 min)	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、1250	630、1250
6	额定短时耐受电流 Rated short-time withstand current	kA	25	31.5
7	额定峰值耐受电流 Rated peak withstand current	kA	63	80
8	额定短路开断电流 Rated short-circuit breaking current	kA	25	31.5
9	额定短路关合电流 Rated short-circuit making current	kA	63	80
10	额定操作顺序 Rated operating sequence	/	O-0.3sCO-180s-CO	
11	短路电流开断次数 Short-circuit current breaking times	次 times	274	
12	额定电容器组开断电流 Rated capacitor bank breaking current	A	630/400	
13	机械寿命 Mechanical lifespan	次 times	10000	

产品特点 Feature

TZN1C-12系列户内侧装真空断路器是在多种侧装断路器产品的基础上，为进一步实现真空断路器的小型化、高可靠、免维护而设计的新一代产品。

TZN1C-12 series laterally-installed vacuum circuit breaker is a new generation product, developed on the basis of various laterally-installed circuit breakers, featuring with small size, high reliability and maintenance free.

该系列断路器灭弧装置采用环氧树脂将真空灭弧室、主导电回路固封为一个整体,绝缘可靠、体积小,真空灭弧室表面不受外界环境的影响,真正实现免维护;

The vacuum arc extinction device adopts the design embedding the vacuum arc extinction chamber and main electric conduction loop into a solid insulation poles by epoxy resin. Therefore, the product performs with reliable insulation and the size is small. The arc extinction chamber surface avoids environmental influence and it realized the maintenance-free purpose.

安装方式灵活,能方便地与隔离开关、负荷开关的配合,左右侧均可安装。

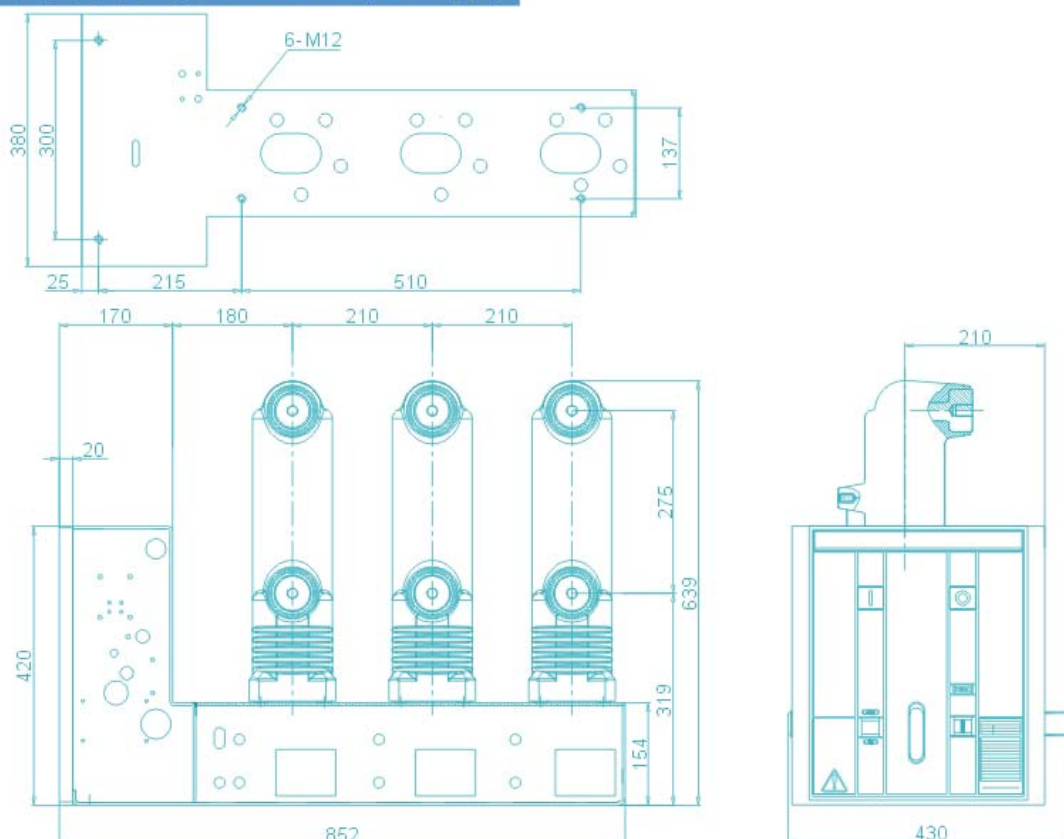
Flexible installation modes make it easy to integrate it with disconnecter and load switch, and both sides are optional for the installation.

正常使用条件 Normal Service Condition

- ◆ 环境温度: 上限 +40℃; 下限 -15℃ Ambient temperature: -15℃ ~ +40℃;
- ◆ 海拔: ≤1000m Altitude: ≤1000m;
- ◆ 无火灾、爆炸危险、严重污秽、化学腐蚀及激烈振动场所
Free from fire, explosion, heavy pollution, chemical corrosion and severe vibration.
- ◆ 地震烈度不超过8度; The earthquake intensity ≤ 8 degree
- ◆ 超出正常使用条件时,由用户与制造厂协商。

If the service condition differs with the above condition, the user should consult the manufacturer.

外形尺寸 (固定式) Dimension (fixed type)



单位 Unit: mm

额定电流 Rated current	630A	1250A
额定短路开断电流 Rated short-circuit breaking current	20kA 25kA 31.5kA	20kA 25kA 31.5kA
相间距 Distance between phases	210	

典型电气原理图（固定式）
Typical Electric Diagram(fixed type)

TZN1C-12系列真空断路器接线原理图(固定式)
 TZN1C-12 Series Vacuum Circuit Breaker Diagram(fixed type)

