



TZN4-40.5(36) Series (系列)

高压交流 真空断路器

High-voltage AC Vacuum Circuit Breaker

产品概述 General

TZN4-40.5(36)系列户内高压交流真空断路器适用于电压40.5(36)kV、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。

TZN4-40.5(36) series indoor HV AC vacuum circuit breakers are used in the switchgear rated 40.5kV(36 kV), 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	40.5 (36)	
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	95 (70)	
4	额定雷电冲击耐受电压 Rated lightning impulse withstand voltage	kV	185 (170)	
5	额定电流 Rated current	A	1250、1600	1250、1600
			2000、2500	2000、2500
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

TZN4-36系列户内高压交流真空断路器是以真空绝缘的户内开关设备元件，导电部分可采用固封极柱，也可采用绝缘筒式结构；

TZN4-36 indoor AC high-voltage vacuum circuit breaker is a vacuum-insulation switching component. The electric conduction part is made with either embedded poles or insulated cylinders.

该断路器配中置式操作机构，增强了其整体刚度；

This breaker is integrated with middle-position operation unit to enhance the whole rigidity

可靠的合分闸，联锁保证其运行的安全可靠。

Reliable closing and opening operation, and inter-lock ensure reliable and safe operation.

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

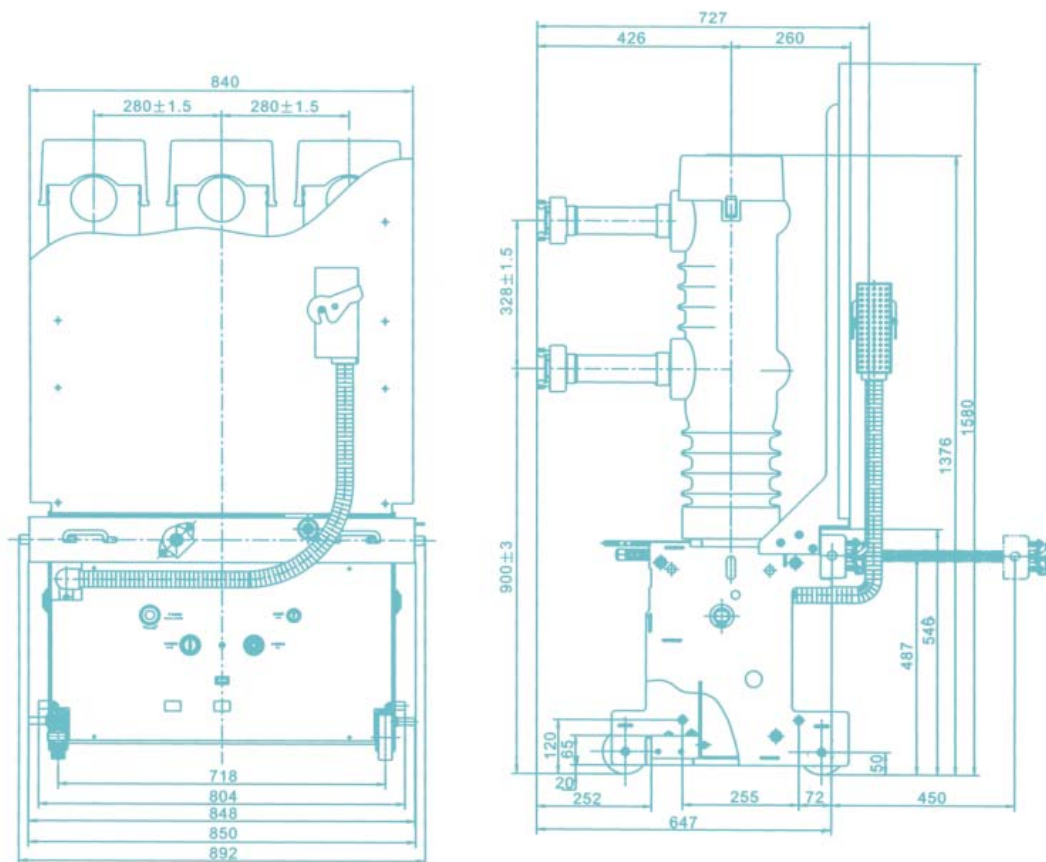
Free from fire, explosion, heavy pollution, chemical corrosion and severe vibration.

◆ 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（中置式） Dimension(middle positioned type)



单位 Unit: mm

额定电流 Rated current	额定短路开断电流 Rated short-circuit breaking current	配合静触头尺寸 Fixed tulip contact size
1250A	25kA, 31.5kA	φ35, φ49
1600A	31.5kA	φ55
2000A, 2500A	31.5kA	φ79

TZN4-36 系列真空断路器接线原理图 (中置式)
 TZN4-36 Series Vacuum Breaker Diagram (middle positioned type)

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