

## 10KV

### Assembled type Voltage Transformer

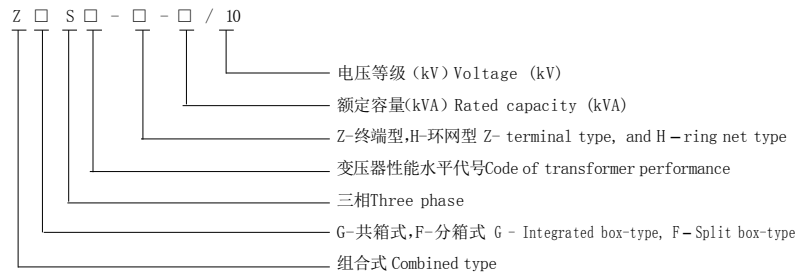


### 产品概述 Introduction of product

组合变压器，俗称美式箱变，具有供电可靠、结构合理、安装迅速、灵活、操作方便、体积小等卓越性能，广泛用于工业园区、居民小区、商业中心、城市道路以及高层建筑等各种场所。该产品与目前国内生产的欧式箱变不同在于：美式箱变是将变压器铁心、高压负荷开关、保护用熔断等设备一体化设计、放置于同一油箱中，因而体积较小。

Combined transformer, commonly named as American box-type transformer, has outstanding features including reliable power supply, compact structure, fast and flexible installation, convenient operation, small size, etc. It can be widely used in industrial areas, residential communities, commercial centers, urban roads, high-rise buildings and other premises. The difference between this kind of product and European box-type transformer domestically manufactured is: American box-type transformer is designed with integration of transformer core, high-voltage load switch, protective fuse and other devices, and placed in an oil tank for relatively comparably smaller size.

### 产品型号及含义 Description and model of product



### 使用环境

环境温度 最高气温+40℃, 最低气温-30℃  
海拔: ≤1000m  
风速 相当34m/s(不大于700Pa)  
湿度 日相对湿度平均值不大于95%  
月相对湿度平均值不大于93%  
防震 水平加速不大于0.4m/s<sup>2</sup>, 垂直加速不大于0.15m/s<sup>2</sup>  
安装地点倾斜度 不大于3°  
安装环境 无爆炸性、腐蚀性气体, 安装场所无剧烈震动冲击  
订购本产品超出上述条件的规定时, 可与本公司协商。

### Operating conditions

Ambient temperature: Highest temperature: +40℃, lowest temperature: -30℃  
Altitude above sea level: no more than 1,000 m  
Wind speed: 34 m/s (no more than 700Pa)  
Humidity: daily average of relative humidity no more than 95%  
Monthly average of relative humidity no more than 95%  
Shock resistance: horizontal acceleration no more than 0.4m/s<sup>2</sup>  
vertical acceleration no more than 0.15m/s<sup>2</sup>  
Slope of installation site: no more than 3°  
Installation conditions: free of explosive and corrosive gas, no severe vibration and shock  
When the product is ordered for operating conditions out of the scope specified above, please inform the Company in advance.

### 产品特点 Features of product

体积小, 结构紧凑, 仅为同容量欧式箱变的三分之一左右。  
全密封, 全绝缘结构, 无需绝缘距离, 可确保人身安全。  
既可用于环网, 又可用于终端, 转换十分方便, 提高了供电的可靠性。  
变压器性能卓越: 低损耗、低噪音、低温升、过载能力强、抗短路、耐冲击能力强。  
电缆接头可操作200A负荷电流, 在紧急情况下可作为负荷开关操作, 并具有隔离开关的特点。  
采用双熔丝保护, 降低了运行成本, 插入式熔断器熔丝为双敏熔丝(温度、电流)。  
选用高燃点油(R-TEMP油, 燃点高达312℃), 可置于建筑内消除火灾隐患。  
采用Dyn11接法及三相五柱式结构, 优点是电压质量高, 中性点不飘移、噪音低、防雷性好。

Small size, compact structure, only one third of the size of European box-type transformer with same capacity  
The product is fully enclosed and equipped with complete insulation structure without requiring insulation clearance to ensure personal safety.

It is suitable for both ring net and terminal and can be changed conveniently for an enhanced reliability of power supply.  
Outstanding performances of transformer: low noise, low loss, low temperature rise, strong overload capacity, and resistance to short circuit and impact.

The cable connector can be operated at load current of 200A and operated as load switch under emergency circumstances. It also has features similar to isolating switch.

Adopt double fuse protection to reduce operating cost, and the plug fuse is fuse of double sensitivity (temperature and current).  
Due to use of oil with high ignition point (R-TEMP oil, the ignition point is up to 312℃), it can be used in buildings and eliminate risk of fire.

Adopt Dyn11 connection and three-phases five-poles structure with advantages such as high quality of voltage, no displacement of neutral point, low noise and good lightning protection.



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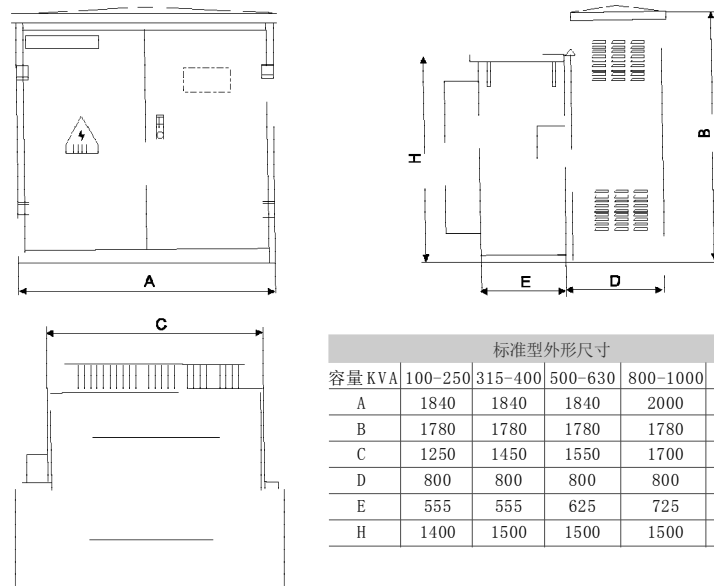
级组合式变压器 (美式箱变)

## 主要技术参数 External dimensions of product

序号	项目	单位	技术参数
1	额定电压	一次侧	kV 6~10
		二次侧	kV 0.4
2	额定工作电压	kV	12
3	额定频率	Hz	50
4	额定容量	kVA	100~1250
5	1分钟工频耐受电压	kV	35
6	雷电冲击耐受电压	kV	95
7	2秒短时耐受电流	kA	12
8	高压后备限流熔断器遮断容量	kV	50
9	无载调压		(6~10) ± 2 × 2.5%
10	环境温度	℃	-20~+40
11	允许温升	K	55

## 产品外形尺寸 External dimensions of product

1、标准型外形尺寸图 1、External dimensions of standard product

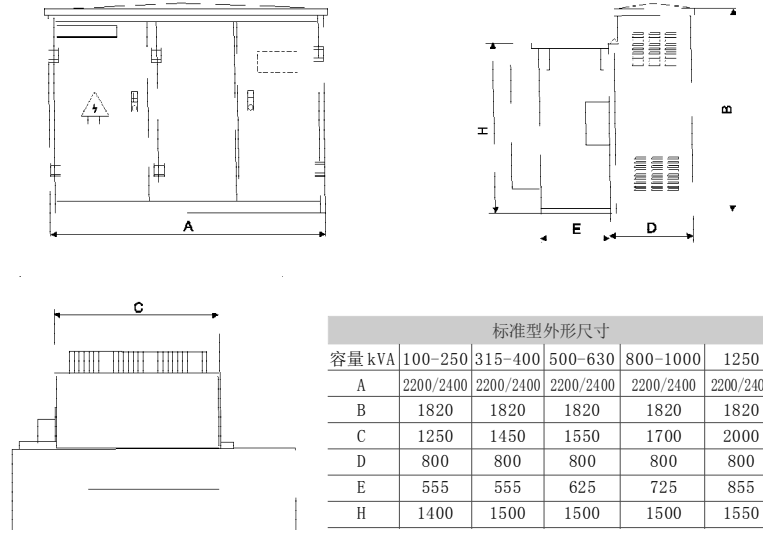


标准型外形尺寸					
容量 KVA	100-250	315-400	500-630	800-1000	1250
A	1840	1840	1840	2000	2200
B	1780	1780	1780	1780	1780
C	1250	1450	1550	1700	2000
D	800	800	800	800	800
E	555	555	625	725	855
H	1400	1500	1500	1500	1550

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## 加强型外形尺寸 External dimensions of enforced product



注：以上外形尺寸仅供设计时参考，订货时以实物尺寸为准。

Note: The above external dimensions are for reference only and the order should be performed based on the real size.