

## 产品特点

### Features of Products

KS11系列矿用变压器，作为矿井的配电设备，该产品具有体积小、易下井、结构合理、损耗低、散热性能好等特点。

本系列产品采用优质的晶粒取向优质高导磁性能硅钢片叠装而成，铁芯为芯式铁芯，全斜接缝迭积式铁芯，其铁芯柱为多级圆截面，确保低噪音低损耗。油箱结构坚固，箱壁两侧焊有高、低压电缆接线盒，作为电缆接线之用，高压线圈须有额定电压 $\pm 5\%$ 的分接电压，利用分接开关变换电压。变换电压时，必须先切断电源，然后去除箱壁上分接开关的风雨罩进行变换电压。变压器低压侧允许“Y”型接成693V或“D”型接成400V供电，在电缆接线盒内直接装次级端头引出六个瓷套供用户改接。变压器吊装利用焊在箱壁的吊攀，变压器箱底均装有拖撬，在拖撬上备有安装孔，可供矿井需要时加装矿车滚轮。

As one kind of distributing transformer for mining use, KS11 series transformer has many advantages, such as compacted body, reasonable structure, low in spoilage, good in heat-dispersion and, easy to go into a well.

This series of product adopt high-permeance cold-rolled grain-oriented silicon-steel plate of high-quality. The iron core applies echelon form iterative accumulation. The core pole which is multilevel circular cross-section can ensure of low noise and low spoilage. The structure of gasoline tank is very firm. Both side of tank are welded with cable junction boxes of high and low voltage which are used for wiring. High-voltage loops need tapping voltage that is  $\pm 5\%$  of rated voltage. It is using the tap switch to change the voltage. When the voltage exchanges, the power must be cut off fist, then unveil the wind-rain cover on the tap switch to counterchange the voltage. The low voltage side of the transformer can be connect the type 'Y' of 693V or the type "D" of 400V to supply power. And inside the cable junction box has a secondary terminal which educes six insulators for users' option. The joint hinges that welded on the casing are available and drawing crow-plate is mounted beneath the base. There are mounting holes in the drawing crow-plate used for being addly-installed with mine-car' contact roller whenmine needing.

## 适用范围

### Practicable Confines

适用于容量630KVA及以下，电压为10KV及以下的油浸式矿用电力变压器。此类型矿用变压器是一般型油浸式变压器，并无防爆要求，主要作为矿井配电时的矿用照明或电力拖动的电源。凡本系列变压器经运输后，不需作吊心检查，即可装配有关拆卸的零部件，做验收试验项目。

The oil-immersed distributing transformer is applied to the capacity 630KVA or below, and the voltage 10KV or below. This product is normal one which has no requirement of explosion - proof. The main function of the product is for mine illumination when distributing power for mining as well as for the driving power. This series of transformers will not need lift-machine examination after transportation. It is allowed to assemble the unshipped spare parts for checking and acceptance.

## 遵循标准

### Comply Standards

本系列变压器所遵循的标准：

GB1094.1-2-1996、GB1094.3,5-2003、GB/T6451-1999、GB12173-1990。

Standards for this series of product:

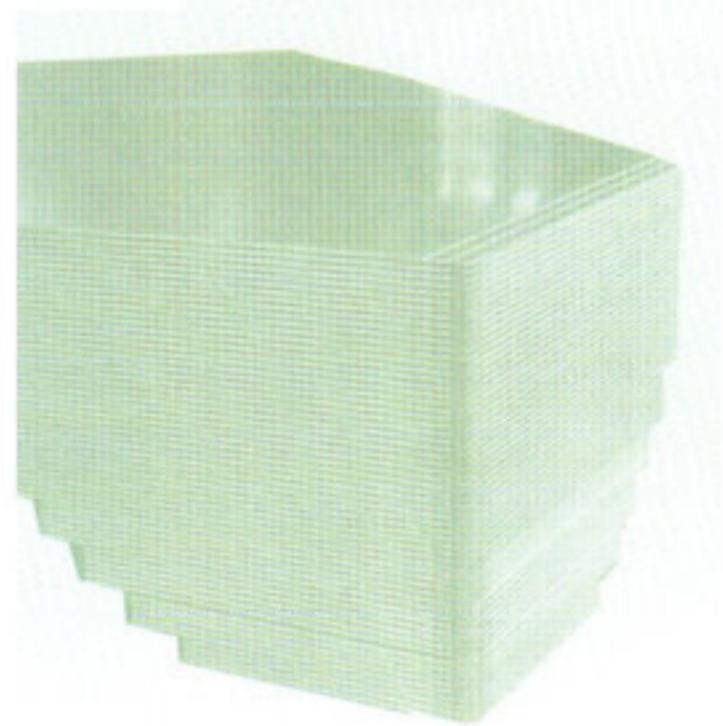
GB1094.1-2-1996、GB1094.3,5-2003、GB/T6451-1999、GB12173-1990。

## 使用环境和工作条件

### Using environment and working condition

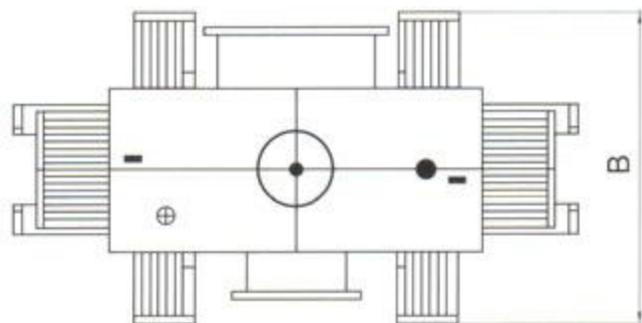
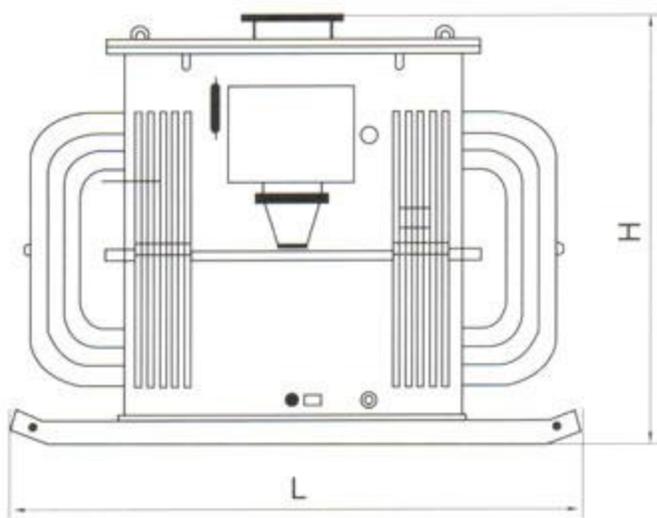
- 1、高度不超过海拔1000m，特殊环境另作说明；
- 2、环境温度：
  - 最高气温+40℃；
  - 最高日平均气温+25℃；
  - 最高年平均气温+20℃；
  - 户外最低气温-20℃。
- 3、周围空气相对湿度对不大于95%（+25℃时）；
- 4、安装在矿井下虽有煤尘、瓦斯，但无爆炸危险的场所；
- 5、电源电压的波形近似地正弦波；

- 1、The installment highly does not surpass elevation 1000m,the special environment gives the explanation in addition;
- 2、Ambient temperature:
  - Highest air temperature +40℃;
  - Highest daily average air temperature+25℃;
  - Highest annual average air temperature+20℃;
  - Lowest outdoor air temperature-20℃.
- 3、The surrounding air relative humidity is not bigger than 95%（+25℃when）
- 4、Installs under the mine pit although has the coal dust, the gas ,but non-explosion hazard place;
- 5、The supply voltage profile is approximate to the sine wave;



# 型号含义

## Type Meaning



## KS11系列矿用变压器技术参数

Tech data of KS9 series electric transformer

额定容量 rated capacity kVA)	电压组合 Voltage group (kV)	联结方式 connection method	损耗(kW) dissipation		空载电流(%) no-load current	阻抗电压(%) impedance voltage	重量(kg) weight			外形尺寸(mm) (长L×宽B×高H) outline dimension
			空载 no-load	负载(75℃) load			器身重 machine weight	油重 oil weight	总重 gross weight	
80	高压 10 6 低压 0.693/0.4	Yyo-d11	0.18	1.25	1.8	4	320	100	535	1300×950×950
100			0.20	1.50	1.6		380	110	615	1300×950×1000
125			0.24	1.80	1.5		440	115	690	1300×950×1000
160			0.28	2.20	1.4		510	130	800	1350×950×1040
200			0.34	2.60	1.3		610	150	935	1400×970×1080
250			0.40	3.05	1.2		720	190	1110	1450×1000×1100
315			0.48	3.65	1.1		835	200	1270	1500×1000×1150
400			0.57	4.30	1.0		1010	240	1540	1600×1050×1150
500			0.68	5.10	1.0		1170	260	1765	1650×1050×1200
630			0.81	6.20	0.9		1375	320	2095	1650×1120×1220