



Company profile:

WenZhou ENBOLI Electric co., Ltd was established in 1998. The company's existing industrial park is 30 acres and the factory area is 70,000 square meters. Its subsidiaries are engaged in power transformers below 110KV, high-voltage components below 110KV, complete sets of electrical appliances below 35KV, power fittings, wires and cables, fuses, distribution boxes and other power transmission and distribution products.



The company has 1,200 employees, including 50 managers and 12 technicians. The annual production amount reaches 380 million. The key processes of the products use automatic monitoring instruments and equipment, and advanced SAP management software is introduced to digitally manage the production and operation process.

The company has KEMA international certification, ISO9001 quality management system certification, IOS14001 environmental management system certification, OHSAS18001 occupational health and safety management and other system certifications, and has passed the International Electrotechnical Association (IEC) CE, American TUL and other international system certifications.





恩波利
ENBOLI

Production workshop

The first-class talent, first-class technology, first-class facilities and a first-class management system forward a first-class production line. In order to ensure a highly efficient operation of the first production line, the company adopts multimodes and multi-means of management to enhance the working efficiency. We train the technical personnel to perfect equipment operation and advance automatic technology skills. We also actively implement the "6S" policy to energize logistics management and the effectiveness of each post, forming a common awareness of efficient and high-quality production, so as to promote the development of economic system of our company.



Assembly workshop



Core Workshop



Winding Workshop



H.V Testing Hall



S10 SERIES 33KV CLASS DISTRIBUTION TRANSFORMER

Features of Products

S10 Series 33kV Class Distribution transformer is one of the important equipments in power supply and distribution system of industrial and mining enterprises and civil buildings. It reduces 33kV network voltage to 230/400V bus voltage used by users. This kind of product is suitable for AC 50(60)Hz, three-phase maximum rated capacity 2500kVA, and can be used indoors (outside)

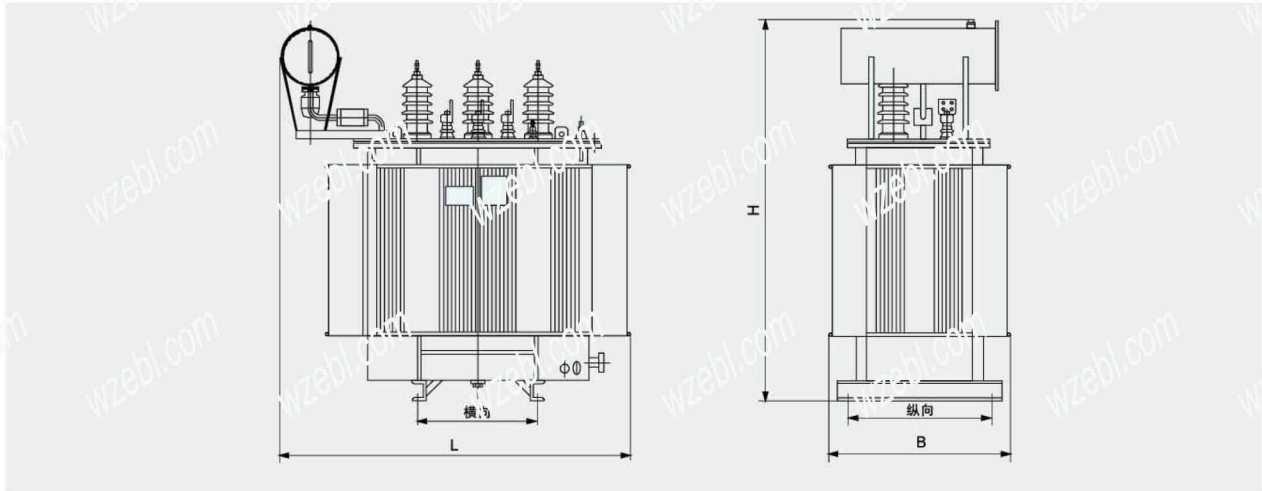
Standards

GB1094.1-2013; GB1094.2-2013; GB1094.3-2013; GB1094.5-2008; GB1094.6-2008; GB/T 1094.10-2003; JB/T 10088-2004 IEC60076; SANS 780 STANDARDS

Features of Products

1. Meet or exceeds ANSI/IEC, GB, SANS Standards
2. Safe Handling, Installation and Operation.
3. Attractive and modern appearance
4. Reasonable Structure
5. Fully-sealed
6. Higher system reliability
7. High security and reliability in operation
8. High capacity of overload and efficiency
9. Robust construction having excellent short circuit and thermal withstand capabilities

S10 series 33kV three phase distribution transformer



S10 series 33kV distribution transformer technical data

| Rated capacity (kVA) | Voltage group (kV) | | Vector group | Impedance voltage (%) | Loss(kW) | | No-load current (%) | Weight(kg) | | | (L×B×H)(mm) Outline dimension | Gauge vertical/horizontal (mm) | | | | |
|----------------------|--------------------|-------------|--------------|-----------------------|----------|-------|---------------------|----------------|------------|--------------|----------------------------------|--------------------------------|------|----------------|----------------|---------|
| | High-voltage | Low-voltage | | | No-load | Load | | Machine weight | Oil weight | Gross weight | | | | | | |
| 50 | 38.5 | 0.4 | Yyno | 6.5 | 0.21 | 1.21 | 2.0 | 195 | 205 | 530 | 1000×950×1450 | 550/550 | | | | |
| 100 | | | | | 0.29 | 2.02 | 1.8 | 320 | 240 | 790 | 1080×1000×1600 | 550/550 | | | | |
| 125 | | | | | 0.34 | 2.38 | 1.7 | 395 | 270 | 950 | 1100×1030×1630 | 660/660 | | | | |
| 160 | | | | | 0.36 | 2.83 | 1.6 | 460 | 285 | 1020 | 1130×1060×1630 | 660/660 | | | | |
| 200 | | | | | 0.43 | 3.33 | 1.5 | 555 | 325 | 1170 | 1190×1060×1670 | 660/660 | | | | |
| 250 | | | | | 0.51 | 3.96 | 1.4 | 630 | 340 | 1340 | 1260×1160×1700 | 660/660 | | | | |
| 315 | | | | | 0.61 | 4.77 | 1.4 | 720 | 400 | 1530 | 1280×1240×1790 | 660/660 | | | | |
| 400 | | | | | 36 | 0.415 | Dyn11 | 6.5 | 0.73 | 5.76 | 1.3 | 820 | 490 | 1780 | 1960×880×1900 | 820/820 |
| 500 | | | | | 35 | | | | 0.86 | 6.93 | 1.2 | 930 | 510 | 1960 | 2020×940×1920 | 820/820 |
| 630 | | | | | 34.5 | | | | 1.04 | 8.28 | 1.1 | 1085 | 600 | 2290 | 2070×1010×2010 | 820/820 |
| 800 | | | | | 33 | | | | 1.23 | 9.9 | 1.0 | 1270 | 660 | 2640 | 2240×1040×2150 | 820/820 |
| 1000 | | | | | 1.44 | | | | 12.15 | 1.0 | 1495 | 735 | 3100 | 2300×1200×2150 | 820/820 | |
| 1250 | | | | | 1.76 | | | | 14.67 | 0.9 | 1775 | 830 | 3630 | 2450×1280×2250 | 1070/1070 | |
| 1600 | | | | | 2.12 | | | | 17.55 | 0.8 | 2140 | 935 | 4235 | 2220×1510×2350 | 1070/1070 | |
| 2000 | | | | | 2.61 | | | | 21.5 | 0.8 | 2535 | 1035 | 4910 | 2310×1740×2440 | 1070/1070 | |
| 2500 | | | | | 3.15 | | | | 23.0 | 0.8 | 3140 | 1190 | 5840 | 2370×1840×2490 | 1070/1070 | |

Note: It can supply voltage regulating range of $\pm 5\%$ or $\pm 2 \times 2.5\%$ for high-voltage transformer



S10 SERIES 33KV CLASS POWER TRANSFORMER

Features of Products

S10 Series 33kV Class Power transformer is one of the main equipments in power plants and substations. The function of transformer is not only to raise the voltage and send the electric energy to the electricity-using area, but also to reduce the voltage to all levels of use voltage to meet the needs of electricity utilization. In short, the step-up and step-down must be completed by transformers. In the process of power transmission in the power system, voltage and power losses will inevitably occur. When the same power is transmitted, the voltage loss is inversely proportional to the voltage and the power loss is inversely proportional to the square of the voltage. The transformer is used to increase the voltage and reduce the power transmission loss.

Standard

GB1094.1-2013; GB1094.2-2013; GB1094.3-2013; GB1094.5-2008; GB/T 6451-2008; GB/T 1094.10-2003; JB/T 10088-2004
IEC60076; SANS 780 STANDARDS

Features of Products

1. Meet or exceeds ANSI, IEC, GB, SANS, standards
 2. Safe Handling, Installation and Operation.
 3. Attractive, modern appearance
 4. Reasonable Structure
 5. Fully-sealed
 6. Higher system reliability
 7. High security and reliability in operation
 8. High capacity of overload and efficiency
- Robust construction having excellent short circuit and thermal withstand capabilities

Transformer normal service conditions

1. The height above the sea level is below 1000m;
2. Ambient temperature;
3. Highest air temperature +40°C ;
4. Highest daily average air temperature+30°C ;
5. Highest annual average air temperature +20°C ;
6. Lowest outdoor air temperature -25°C ;

S10 series 33/11kV power transformer technical data

| Rated capacity (kVA) | Voltage group (kV) | | Vector group | Impedance voltage (%) | Loss (W) | | No-load current (%) | Weight(kg) | | | Outline dimension (L×B×H)(mm) | Auge vertical/horizontal (mm) |
|----------------------|--------------------|-------------|--------------|-----------------------|----------|-------|---------------------|----------------|------------|--------------|-------------------------------|-------------------------------|
| | High-voltage | Low-Voltage | | | No-load | Load | | Machine weight | Oil weight | Gross weight | | |
| 200 | 38.5 | 11 | Yd11 | 6.5 | 0.43 | 3.33 | 1.5 | 580 | 350 | 1250 | 1230×1200×1830 | 660/660 |
| 250 | | | | | 0.52 | 3.96 | 1.4 | 665 | 380 | 1475 | 1280×1250×1830 | 660/660 |
| 315 | | | | | 0.61 | 4.77 | 1.4 | 785 | 440 | 1640 | 1310×1270×1920 | 660/660 |
| 400 | | | | | 0.75 | 5.76 | 1.3 | 905 | 525 | 1870 | 1960×830×2010 | 820/820 |
| 500 | | | | | 0.87 | 6.93 | 1.2 | 1060 | 590 | 2225 | 2050×880×2080 | 820/820 |
| 630 | | | | | 1.04 | 8.28 | 1.1 | 1220 | 630 | 2420 | 2120×1000×2130 | 820/820 |
| 800 | | | | | 1.23 | 9.9 | 1.0 | 1350 | 700 | 2780 | 2290×1120×2150 | 820/820 |
| 1000 | | | | | 1.44 | 12.15 | 1.0 | 1575 | 775 | 3290 | 2380×1140×2250 | 820/820 |
| 1250 | | | | | 1.76 | 14.67 | 0.9 | 1810 | 880 | 3845 | 2420×1220×2370 | 820/820 |
| 1600 | | | | | 2.12 | 17.55 | 0.8 | 2190 | 960 | 4295 | 2300×1510×2420 | 820/820 |
| 2000 | | | | | 2.72 | 19.35 | 0.7 | 2460 | 1090 | 4890 | 2320×1750×2450 | 820/820 |
| 2500 | | | | | 3.2 | 20.7 | 0.6 | 3010 | 1205 | 5660 | 2380×1840×2530 | 1070/1070 |
| 3150 | | | | | 3.8 | 24.3 | 0.56 | 3785 | 1500 | 7600 | 2550×2220×2620 | 1070/1070 |
| 4000 | | | | | 4.52 | 28.8 | 0.56 | 4690 | 1790 | 8500 | 2670×2390×2670 | 1070/1070 |
| 5000 | | | | | 5.4 | 33.03 | 0.49 | 5570 | 2015 | 9790 | 2870×2450×2750 | 1070/1070 |
| 6300 | | | | | 6.56 | 36.9 | 0.48 | 7380 | 2460 | 12620 | 3100×2580×2950 | 1475/1475 |
| 8000 | | | | | 9.0 | 40.5 | 0.42 | 8870 | 2650 | 14100 | 3250×2680×3150 | 1475/1475 |
| 10000 | | | | | 10.88 | 47.7 | 0.42 | 10020 | 2930 | 16500 | 3320×2720×3230 | 1475/1475 |
| 12500 | | | | | 12.6 | 56.7 | 0.4 | 12880 | 3710 | 19780 | 3410×2950×3410 | 1475/1475 |
| 16000 | 15.2 | 69.3 | 0.4 | 16120 | 4280 | 23950 | 3520×3180×3570 | 1475/1475 | | | | |
| 20000 | 18.0 | 83.7 | 0.4 | 18580 | 5230 | 29600 | 3730×3560×3990 | 1475/1475 | | | | |
| 25000 | 21.28 | 99.0 | 0.32 | 22970 | 6370 | 35350 | 4110×4120×4220 | 2040/2040 | | | | |
| 31500 | 25.28 | 118.8 | 0.32 | 27600 | 7740 | 41900 | 4760×4570×4390 | 2040/2040 | | | | |

Note: It can supply voltage regulating range of $\pm 5\%$ or $\pm 2 \times 2.5\%$ for high-voltage of transformer



SZ10 SERIES 33KV CLASS OLTC POWER TRANSFORMER

Features of Products

SZ10 Series 33KV class on-load voltage regulation is a voltage regulation method by which a transformer can change the voltage by changing the tap gear when operating under load. Power electronic component switches have the advantages of frequent switching, no spark and long service life, so they can be used as on-load tap-changer for distribution transformers.

Standards

GB1094.1-2013; GB1094.2-2013; GB1094.3-2013; GB1094.5-2008; GB16451-2008; GB/T1094.10-2003; JB/T10888-2004 IEC60076; SANS 780 STANDARDS

Features of Products

1. Meet or exceeds ANSI/IEC, GB, SANS Standards
2. Safe Handling, Installation and Operation.
3. Attractive, Modern appearance
4. Reasonable Structure
5. Fully-sealed
6. Higher system reliability
7. High security and reliability in operation
8. High capacity of overload and efficiency
9. Robust construction having excellent short circuit and thermal withstand capabilities



Transformer normal service conditions

1. The height above the sea level is below 1000m;
2. Ambient temperature;
3. Highest air temperature +40°C ;
4. Highest daily average air temperature+30°C ;
5. Highest annual average air temperature +20°C ;
6. Lowest outdoor air temperature -25°C ;

SZ10 series 33kV on-load regulation power transformer technical data

| Rated capacity (kVA) | Voltage grade(kV) | | Winding group | Impedance voltage (%) | Loss(%) | | No-load current (%) | Weight(kg) | | | (L×B×H)(mm) Outline dimension | Gauge vertical/horizontal (mm) | | | |
|----------------------|-------------------|-------------|---------------|-----------------------|---------|-------|---------------------|----------------|----------------|--------------|----------------------------------|--------------------------------|----------------|----------------|-----------|
| | High-voltage | Low-voltage | | | No-load | Load | | Machine weight | Oil weight | Gross weight | | | | | |
| 800 | 35.5 | 11 | Yd11 | 6.5 | 1.3 | 10.4 | 1.0 | 1350 | 700 | 2780 | 2190×1220×2150 | 820/820 | | | |
| 1000 | | | | | 1.52 | 12.8 | 1.0 | 1575 | 775 | 3290 | 2830×1240×2250 | 820/820 | | | |
| 1250 | | | | | 1.86 | 15.4 | 0.9 | 1810 | 880 | 3845 | 2870×1310×2370 | 820/820 | | | |
| 1600 | | | | | 2.24 | 18.43 | 0.8 | 2190 | 960 | 4295 | 2900×1510×2420 | 820/820 | | | |
| 2000 | | | | | 2.88 | 20.25 | 0.7 | 2460 | 1090 | 4890 | 2920×1750×2450 | 820/820 | | | |
| 2500 | | | | | 3.4 | 21.73 | 0.6 | 3010 | 1205 | 5660 | 2980×1840×2530 | 1070/1070 | | | |
| 3150 | | | | 36 | 6 | Yd11 | 7.0 | 4.24 | 26.01 | 0.56 | 3785 | 1500 | 7600 | 3150×2200×2620 | 1070/1070 |
| 4000 | | | | 4.84 | | | | 30.69 | 0.56 | 4690 | 1790 | 8500 | 3270×2390×2670 | 1070/1070 | |
| 5000 | | | | 5.8 | | | | 36.00 | 0.48 | 5570 | 2015 | 9790 | 3470×2450×2750 | 1070/1070 | |
| 6300 | | | | 7.04 | | | 38.7 | 0.48 | 7380 | 2460 | 12620 | 3700×2530×2950 | 1475/1475 | | |
| 8000 | 9.84 | 42.75 | 0.42 | 8870 | | | 2650 | 14100 | 3850×2680×3150 | 1475/1475 | | | | | |
| 10000 | 11.6 | 50.58 | 0.42 | 10020 | | | 2930 | 16500 | 3920×2720×3230 | 1475/1475 | | | | | |
| 12500 | 33 | | Ynd11 | 7.5 | 13.66 | 59.85 | 0.4 | 12880 | 3710 | 19780 | 4010×2950×3410 | 1475/1475 | | | |
| 16000 | | | | | 16.46 | 74.02 | 0.4 | 16120 | 4280 | 23950 | 4120×3180×3570 | 1475/1475 | | | |
| 20000 | | | | 8.0 | 19.46 | 87.14 | 0.4 | 18580 | 5230 | 29600 | 4330×3560×3990 | 1475/1475 | | | |

Note: It can supply voltage regulating range of $\pm 3 \times 2.5\%$ or $\pm 2 \times 2.5\%$ for high-voltage on-load regulation transformer



SBH15 SERIES AMORPHOUS ALLOY TRANSFORMER

PRODUCT INTRODUCTION

SBH15 series Amorphous alloy Transformer is a low-loss, energy-efficient power transformer. Such Transformers use iron-based amorphous metals as iron cores. Since the material does not have a long-range ordered structure, its magnetization and demagnetization are easier than general magnetic materials. Therefore, the iron loss (i.e., empty load loss) of amorphous alloy Transformers is 70-80% lower than that of conventional Transformers that generally use Silicon steel as the core.

Standard

GB1094.1-2013; GB1094.2-2013; GB1094.3-2013; GB1094.5-2008; GB/T 6451-2008; GB/T 1094.10-2003; JB/T 10088-2004
IEC60076; SANS 780 STANDARDS

TRANSFORMER MODEL DESCRIPTION

S B H 15 - / □

- S The classification of voltage (kV)
- B Rated capacity (kVA)
- H Omniseal type
- 15 Functional level code
- Amorphous Iron-core
- / Copper winding
- Three phase

Transformer normal service conditions

1. The height above the sea level is below 1000m;
2. Ambient temperature;
3. Highest air temperature +40°C ;
4. Highest daily average air temperature+30°C ;
5. Highest annual average air temperature +20°C ;
6. Lowest outdoor air temperature -25°C ;

THREE-PHASE OIL IMMERSED AMORPHOUS ALLOY DISTRIBUTION TRANSFORMER TECHNICAL DATA

| Rated capacity (kVA) | Voltage combination | | | Vector group | No-load Loss (kW) | Load Loss (W) | No-load current (%) | Impedance voltage (%) | |
|-------------------------|---------------------------------------|-----------------------|-----------------------|-----------------|----------------------|---------------|---------------------------|-----------------------------|-----|
| | HV (kV) | Tap changer (%) | LV (kV) | | | | | | |
| 30 | 13.8 13.2 11 10.5 10 6 | ±5 ±2X2.5 | 0.4 0.415 0.433 | Dyn11 Dyn5 | 0.33 | 0.6 | 1.70 | 4.0 | |
| 50 | | | | | 0.43 | 0.87 | 1.30 | | |
| 63 | | | | | 0.50 | 1.04 | 1.20 | | |
| 80 | | | | | 0.60 | 1.25 | 1.10 | | |
| 100 | | | | | 0.75 | 1.50 | 1.00 | | |
| 125 | | | | | 0.85 | 1.90 | 0.90 | | |
| 160 | | | | | 0.10 | 2.20 | 0.70 | | |
| 200 | | | | | 0.12 | 2.60 | 0.70 | | |
| 250 | | | | | 0.14 | 3.05 | 0.70 | | |
| 315 | | | | | 0.17 | 3.65 | 0.50 | | |
| 400 | | | | | 0.20 | 4.30 | 0.50 | | |
| 500 | | | | | 0.24 | 5.15 | 0.50 | | |
| 630 | | | | | 0.32 | 6.20 | 0.30 | | 4.5 |
| 800 | | | | | 0.38 | 7.50 | 0.30 | | |
| 1000 | | | | | 0.45 | 10.30 | 0.30 | | |
| 1250 | | | | | 0.53 | 12.00 | 0.20 | | |
| 1600 | 0.63 | 14.50 | 0.20 | 5 | | | | | |
| 2000 | 0.75 | 17.40 | 0.20 | | | | | | |
| 2500 | 0.90 | 20.20 | 0.20 | | | | | | |

Note: If the core is 3-phase 3-pole, vector group Yyn0 can be used according to requirements



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