



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



DRY TYPE MINING EXPLOSION ISOLATION MOVABLE TRANSFORMER SUBSTATION

Features of Products

The mineral product separates the explode migration transformer substation separates the explode migration transformer substation by the mineral product with the do-like transformer. the high-pressured load switch either the high pressure and the low pressure switch or the low pressure guarantees is composed. Has the leakage, the leakage, the overload, short-circuits, the performance.

KBSGZY series dry type mining explosion isolation movable transformer substation is a kind of movable whole set distribution and transformation device. It is suitable for not only mines filled with fire-damp mixed gas, grime and explosive gas, but also the gas and steam environment that can corrode metal and oxidation.

Standard

JB3955-1993; GB1094.1~2-1996; GB12173-2008; GB1094.3-2003; GB1094.5-2008

Transformer Type Meaning

K B S G Z Y / □

- Rated voltage
- Rated capacity
- Movable transformer substation
- Dry type
- Three-phase
- Explosion isolation type
- Mining use

Using environment and working condition

- The elevation is less than 1000m, the special environment gives the explanation in addition
- Ambient temperature:
 Highest temperature +40°C;
 Lowest temperature -5°C;
 Maximum daily average temperature +30°C;
 Maximum annual average temperature +20°C;
 Lowest outdoor air temperature -5°C;
- The relative humidity is less than 95% (When the air temperature is 25°C);
- It has the methane and the coal dust, also has the explosion hazard in the mine pit;
- Does not have, the vibration as well as with the gradient does not surpass in 15° environment;
- Does not have sufficiently the dipping and the insulation gas and the steam;
- No-water drop place;
- Power supply voltage profile is approximate to the sine wave;
- The three-phase supply voltage approximate is symmetrical;(When extracts this condition stipulation, separate consultation)

KBSGZY series 6kV mining explosion isolation dry type movable transformer substation technical data

| Rated capacity (kVA) | HV/LV (kV) | Vector group | Impedance voltage | Loss (kW) | | No-load current (%) | (L×W×H) Outline dimension (mm) | Weight (kg) | Gauge (mm) | |
|----------------------|------------|---------------------------------------|--------------------|-----------|------|---------------------|--------------------------------|----------------|------------|------------|
| | | | | No-load | Load | | | | | |
| 50 | 6±5% | Yy0 (d11) | 4 | 350 | 550 | 2.5 | 3290×950×1160 | 2350 | 600 | |
| 100 | | | 4 | 520 | 920 | 2.5 | 3580×950×1430 | 2600 | | |
| 200 | | | 4 | 820 | 1550 | 2 | 3710×950×1445 | 3050 | | |
| 250 | | | 4 | 950 | 1800 | 2 | 3820×950×1530 | 3300 | | |
| 315 | | | 4 | 1100 | 2150 | 1.8 | 3870×975×1540 | 3500 | | |
| 400 | | | 4 | 1300 | 2600 | 1.8 | 3890×995×1550 | 3600 | | |
| 500 | | 0.693/0.4 1.2/0.693 1.2 3.45 | Yy0 (d11) Dyn11 | 4 | 1500 | 3100 | 1.5 | 3910×1050×1570 | 4100 | 600 900 |
| 630 | | | | 4 | 1800 | 3680 | 1.5 | 4085×1080×1450 | 5360 | |
| 800 | | | | 4 | 2050 | 4500 | 1.0 | 4085×1080×1510 | 5680 | |
| 1000 | | | | 4 | 2350 | 5400 | 1.0 | 4100×1130×1540 | 6500 | |
| 1250 | | | | 4 | 2750 | 6500 | 1.0 | 4190×1160×1610 | 6700 | |
| 1600 | | | | 4 | 3350 | 8000 | 0.8 | 4190×1200×1750 | 9230 | |
| 2000 | | | | 4.5 | 3800 | 9500 | 0.6 | 4570×1220×1790 | 9930 | |
| 2500 | | | | 5 | 4500 | 10600 | 0.6 | 4580×1230×1850 | 13830 | |
| 3150 | | | | 5.5 | 5300 | 12500 | 0.6 | 4820×1260×1890 | 17250 | |
| 4000 | | | | 6 | 6100 | 14000 | 0.6 | 4930×1400×1920 | 19810 | |

KBSGZY series 11kV mining explosion isolation dry type movable transformer substation technical data

| Rated capacity (kVA) | HV/LV (kV) | Vector group | Impedance voltage | Loss (kW) | | No-load current (%) | (L×W×H) Outline dimension (mm) | Weight (kg) | Gauge (mm) | |
|----------------------|------------|---------------------------------------|--------------------|-----------|------|---------------------|--------------------------------|----------------|------------|------------|
| | | | | No-load | Load | | | | | |
| 50 | 10±5% | Yy0 (d11) | 4 | 390 | 680 | 2.5 | 3200×950×1295 | 2400 | 600 | |
| 100 | | | 4 | 560 | 1050 | 2.5 | 3580×950×1430 | 2800 | | |
| 200 | | | 4 | 950 | 1800 | 2 | 3990×950×1525 | 3200 | | |
| 250 | | | 4 | 110 | 2100 | 2 | 4020×950×1540 | 3500 | | |
| 315 | | | 4 | 1300 | 2500 | 1.8 | 4050×980×1555 | 3800 | | |
| 400 | | | 4 | 1500 | 3000 | 1.8 | 4200×1050×1610 | 4000 | | |
| 500 | | 0.693/0.4 1.2/0.693 1.2 3.45 | Yy0 (d11) Dyn11 | 4 | 1750 | 3500 | 1.5 | 4200×1050×1610 | 4300 | 600 900 |
| 630 | | | | 4 | 2000 | 4100 | 1.5 | 4370×1080×1450 | 5400 | |
| 800 | | | | 4 | 2300 | 5100 | 1.2 | 4370×1080×1600 | 5700 | |
| 1000 | | | | 4.5 | 2600 | 6100 | 1.2 | 4400×1110×1675 | 6900 | |
| 1250 | | | | 4.5 | 3100 | 7400 | 1.0 | 4480×1125×1740 | 7300 | |
| 1600 | | | | 5 | 3800 | 8500 | 1.0 | 4640×1245×1830 | 9300 | |
| 2000 | | | | 5 | 4500 | 9700 | 0.7 | 4665×1250×1900 | 11900 | |
| 2500 | | | | 5.5 | 5200 | 10800 | 0.7 | 4870×1290×1900 | 14320 | |
| 3150 | | | | 5.5 | 6100 | 12800 | 0.7 | 4880×1390×1900 | 19350 | |
| 4000 | | | | 6 | 7000 | 15000 | 0.7 | 5210×1450×1900 | 21910 | |



110kV LEVEL THREE-PHASE ON-LOAD TAP-CHANGING ELECTRIC POWER TRANSFORMER

Summary

We have adopted series of important reforms on the 110kV level three-phase oil-immersed on-load tap-changing transformer referring material, process and structure. The transformer has the features of small size, light weight, high efficiency, low loss, low noise, reliable operation etc. which can reduce a large amount of power network loss and operation expenses with significant economic benefits. It is suitable for power plant substation, heavy section plant or enterprises etc.

Model and meaning

□□□□□□□□-□/□□

- Protection code (Usually don't mark, TH-hydrothermal, TA-dry-hot)
- Rated high voltage (kV)
- Rated Power (kVA)
- Design serial number (9,10.....)
- Tap-changing mode (Don't mark for NLTC, Z-OLTC)
- Conductor mode (Don't mark copper conductor, L-Aluminum conductor)
- Coil number (Don't mark two windings, S-three windings, F-splitting windings)
- Circulation mode (Don't mark natural circulation, P-Forced circulation)
- Cooling method (J-Don't mark self-cooling, F-Oil-immersed air force cooling, S-Water cooling)
- Phase number (D-Single phase, S-Three phase)

Main 110kV level three-phase on-load tap-changing power transformer technical parameters

| Rated capacity (kVA) | Voltage combination | | Vector Group | No-load loss (kW) | Load loss (kW) | No load current (%) | Short circuit impedance (%) | |
|----------------------|---------------------|------------------|--------------|-------------------|----------------|---------------------|-----------------------------|-------|
| | High voltage (kV) | Low voltage (kV) | | | | | | |
| 6300 | 110±2x2.5% | 6.3 | YNd11 | 7.40 | 35.0 | 0.62 | 10.5 | |
| 8000 | | | | 8.90 | 42.0 | 0.62 | | |
| 10000 | | | | 10.5 | 50.0 | 0.58 | | |
| 12500 | | | | 12.4 | 59.0 | 0.58 | | |
| 16000 | | | | 15.0 | 73.0 | 0.54 | | |
| 20000 | | | | 17.6 | 88.0 | 0.54 | | |
| 25000 | | | | 20.8 | 104 | 0.50 | | |
| 31500 | | | | 24.6 | 123 | 0.48 | | |
| 40000 | | | | 29.4 | 148 | 0.45 | | |
| 50000 | | | | 35.2 | 175 | 0.42 | | |
| 63000 | | | | 41.6 | 208 | 0.38 | | |
| 75000 | | | | 47.2 | 236 | 0.33 | | 12-14 |
| 90000 | | | | 54.4 | 272 | 0.30 | | |
| 120000 | | | | 67.8 | 337 | 0.27 | | |
| 150000 | | | | 80.1 | 399 | 0.24 | | |
| 180000 | 90.0 | 457 | 0.20 | | | | | |

Note 1: -5% tapping position is maximum current tapping.

Note 2: For boost transformer, it is advisable to adopt non-tapping structure. If there is any requirement for operation, sub-connectors can be set up.

Note 3: When the average annual load rate of transformer is between 42% and 46%, the maximum operating efficiency can be obtained by using the loss value in the table.

6300kVA~63000kVA three-phase three-winding NLTC power transformer

| Rated capacity (kVA) | Voltage combination | | | Vector group | No-load loss (kW) | Load loss (kW) | No load current (%) | Short-circuit impedance (%) | |
|----------------------|---------------------|---------------------|------------------|--------------|-------------------|----------------|---------------------|-----------------------------|-----------|
| | High voltage (kV) | Medium voltage (kV) | Low voltage (kV) | | | | | Step up | Step down |
| | | | | | | | | | |
| 8000 | 10.6 | 53.0 | 0.62 | | | | | | |
| 10000 | 12.6 | 62.0 | 0.59 | | | | | | |
| 12500 | 14.7 | 74.0 | 0.56 | | | | | | |
| 16000 | 17.9 | 90.0 | 0.53 | | | | | | |
| 20000 | 21.1 | 106 | 0.53 | | | | | | |
| 25000 | 24.6 | 126 | 0.48 | | | | | | |
| 31500 | 29.4 | 149 | 0.48 | | | | | | |
| 40000 | 34.8 | 179 | 0.44 | | | | | | |
| 50000 | 41.6 | 213 | 0.44 | | | | | | |
| 63000 | 49.2 | 256 | 0.40 | | | | | | |

Note 1: High, medium and low voltage winding capacity allocation is (100/100/100)% high, medium and low.

Note 2: The connection group label can be YNd11y10 as required.

Note 3: According to the user's requirement, medium voltage can be selected as different from the voltage value in the meter or with taps.

Note 4: -5% tapping position is maximum current tapping.

Note 5: For boost transformer, it is advisable to adopt non-tapping structure. If the operation requires, tapping can be set up.

Note 6: When the average annual load rate of transformer is about 45%, the maximum operating efficiency can be obtained by using the loss value in the table.

6300kVA~63000kVA three-phase two winding OLTC power transformer

| Rated capacity (kVA) | Voltage combination | | Vector Group | No-load loss (kW) | Load loss (kW) | No load current (%) | Short circuit impedance (%) |
|----------------------|---------------------|-----------------|--------------|-------------------|----------------|---------------------|-----------------------------|
| | High voltage (kV) | Low voltage(kV) | | | | | |
| 6300 | 110±8x1.25% | 10.5 | YNd11 | 8.00 | 35.0 | 0.64 | 10.5 |
| 8000 | | | | 9.60 | 42.0 | 0.64 | |
| 10000 | | | | 11.3 | 50.0 | 0.59 | |
| 12500 | | | | 13.4 | 59.0 | 0.59 | |
| 16000 | | | | 16.1 | 73.0 | 0.55 | |
| 20000 | | | | 19.2 | 88.0 | 0.55 | |
| 25000 | | | | 22.7 | 104 | 0.51 | |
| 31500 | | | | 27.0 | 123 | 0.51 | |
| 40000 | | | | 32.3 | 156 | 0.46 | |
| 50000 | | | | 38.2 | 194 | 0.46 | |
| 63000 | | | | 45.4 | 232 | 0.42 | |

Note 1:On-load tap-changer, temporarily providing step-down structure products.

Note 2:According to user's requirements, other voltage combination products can be provided.

Note 3:- 10% tapping position is maximum current tapping.

Note 4:When the average annual load rate of transformer is between 45% and 50%, the maximum operating efficiency can be obtained by using the loss value in the table.

6300kVA~63000kVA three phase two winding OLTC power transformer

| Rated capacity (kVA) | Voltage combination | | | Vector Group | No-load loss (kW) | Load loss (kW) | No load current (%) | Short circuit impedance (%) |
|----------------------|---------------------|----------------------|-----------------|--------------|-------------------|----------------|---------------------|---|
| | High voltage (kV) | Med-ium voltage (kV) | Low voltage(kV) | | | | | |
| 6300 | 110±8x1.25% | 33 | 6.3 | YNyn0d11 | 9.60 | 44.0 | 0.76 | H-M 10.5 H-L 18-19 M-L 6.5 |
| 8000 | | | | | 11.5 | 53.0 | 0.75 | |
| 10000 | | | | | 13.6 | 62.0 | 0.71 | |
| 12500 | | | | | 16.1 | 74.0 | 0.71 | |
| 16000 | | | | | 19.3 | 90.0 | 0.67 | |
| 20000 | | | | | 22.8 | 106 | 0.67 | |
| 25000 | | | | | 27.0 | 126 | 0.62 | |
| 31500 | | | | | 32.1 | 149 | 0.62 | |
| 40000 | | | | | 38.5 | 179 | 0.58 | |
| 50000 | | | | | 45.5 | 213 | 0.58 | |
| 63000 | | | | | 54.1 | 256 | 0.53 | |

Note 1:On-load tap-changer, temporarily providing step-down structure products.

Note 2:High, medium and low voltage winding capacity allocation is (100/100/100)% high, medium and low.

Note 3:The connection group label can be YNd11y10 as required.

Note 4:- 10% tapping position is maximum current tapping.

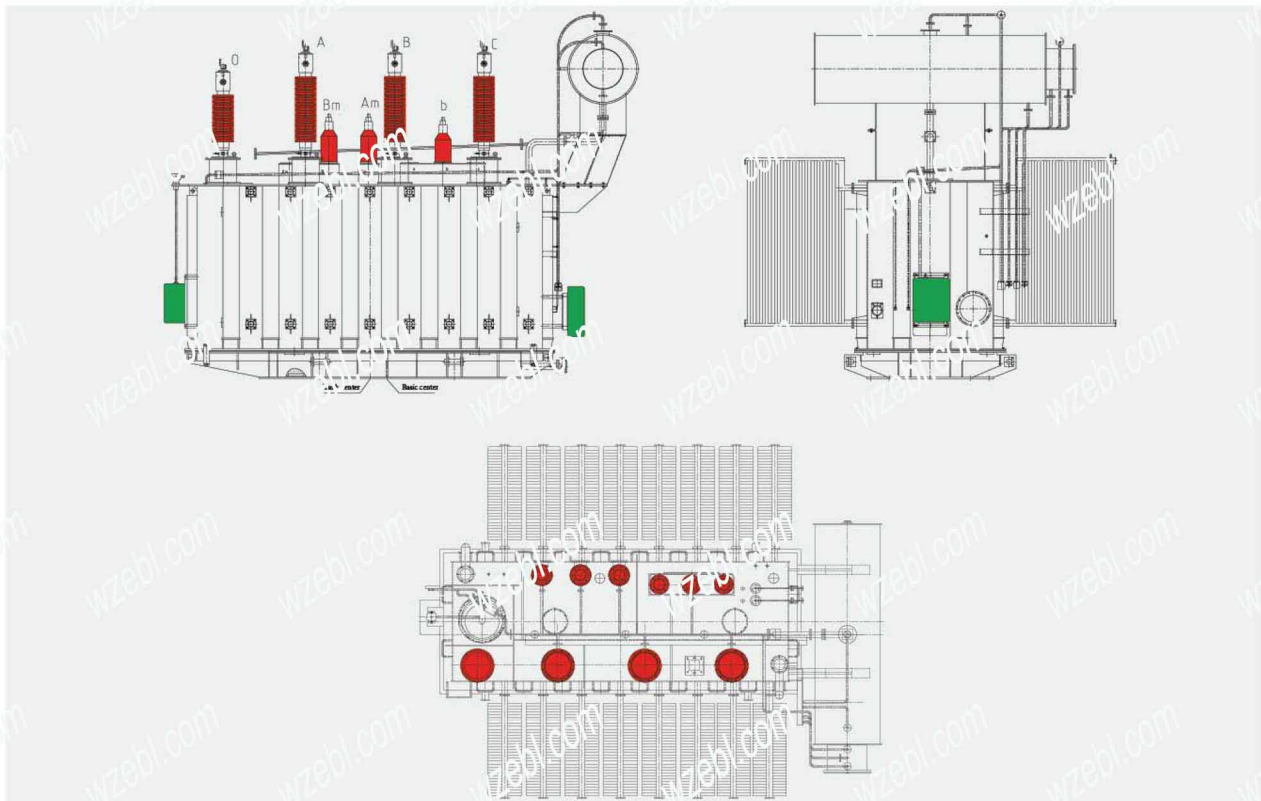
Note 5:According to user's requirement, medium voltage can be selected as different from the voltage value in the meter or with taps.

Note 5:When the average annual load rate of transformer is about 47%, the maximum operating efficiency can be obtained by using the loss value in the table.

6300kVA~63000kVA three-phase two winding OLTC power transformer

| Rated capacity (kva) | Voltage combination | | Vector Group | No-load loss (kW) | Load loss (kW) | No load current (%) | Short circuit impedance (%) | |
|----------------------|---------------------|------------------|--------------|-------------------|----------------|---------------------|-----------------------------|-------|
| | High voltage (kV) | Low voltage (kV) | | | | | | |
| 6300 | 110±8x1.25% | 6.3 | YNd11 | 8.00 | 35.0 | 0.64 | 10.5 | |
| 8000 | | | | 9.60 | 42.0 | 0.64 | | |
| 10000 | | | | 11.3 | 50.0 | 0.59 | | |
| 12500 | | | | 13.4 | 50.0 | 0.59 | | |
| 16000 | | | | 16.1 | 73.0 | 0.55 | | |
| 20000 | | | | 19.2 | 88.0 | 0.55 | | |
| 25000 | | | | 22.7 | 104 | 0.51 | | |
| 31500 | | | | 27.0 | 123 | 0.51 | | |
| 40000 | | | | 32.3 | 150 | 0.46 | | 12-18 |
| 50000 | | | | 38.2 | 194 | 0.46 | | |
| 63000 | 45.4 | 232 | 0.42 | | | | | |

Main 110kV level three-phase on-load tap-changing power transformer technical parameters



Specification of power transformer could be customized.

Ordering instructions

Consumer needs to offer the following technical parameters when ordering:

Model, Product, rated volume, system voltage, voltage combination, connection symbol labeling, short circuit impedance, no-load loss, load loss, no-load current, rated frequency, cooling method, altitude, working environment and other requirements. Serial number.

Main 220kV level three-phase on-load voltage regulating power transformer technical parameters

31500kVA~420000kVA three-phase duplex-winding non-field excitation changing power transformer

| Rated capacity (kVA) | Voltage combination | | Vector group | No-load loss (kW) | Load loss (kW) | No load current (%) | Short-circuit impedance (%) | |
|----------------------|--------------------------|-----------------|--------------|-------------------|----------------|---------------------|-----------------------------|------|
| | High voltage (kV) | Low voltage(kV) | | | | | | |
| 31500 | 220±2x2.5% 242±2x2.5% | 6.3 | Nail | 28 | 128 | 0.56 | 12-14 | |
| 40000 | | 6.6 | | 32 | 149 | 0.56 | | |
| 50000 | | 10.5 | | 39 | 179 | 0.52 | | |
| 63000 | | 11 | | 46 | 209 | 0.52 | | |
| 75000 | | 10.5 | | 13.8 | 53 | 237 | | 0.48 |
| 90000 | | | | | 64 | 273 | | 0.44 |
| 120000 | | 10.5、11、13.8 | | 15.75 | 75 | 338 | | 0.44 |
| 150000 | | | | | 89 | 400 | | 0.40 |
| 160000 | | | | | 93 | 420 | | 0.39 |
| 180000 | | | | | 102 | 459 | | 0.36 |
| 240000 | | | | | 128 | 538 | | 0.33 |
| 300000 | | | | | 154 | 641 | | 0.30 |
| 360000 | | | | | 173 | 735 | | 0.30 |
| 370000 | | | | | 176 | 750 | | 0.30 |
| 400000 | | 187 | | 795 | 0.28 | | | |
| 420000 | | 193 | | 824 | 0.28 | | | |

Note 1 Transformers with rated capacity less than 31500 kVA and other voltage combinations can also be provided as required.

Note 2 Transformers with low voltage of 35 kV or 38.5 kV can also be provided as required.

Note 3 The non-splitting structure is preferred. If there is any requirement for operation, sub-connectors can be set up.

Note 4 When the average annual load rate of transformer is between 45% and 50%, the maximum operating efficiency can be obtained by using the loss value in the table.

31500kVA~300000kVA three-phase three-winding non-field excitation changing power transformer

| Rated capacity (kVA) | Voltage Combination | | | Vector group | No-load loss (kW) | Load loss (kW) | No load current (%) | Short-circuit impedance(%) | |
|----------------------|--|----------------------|------------------|--------------|-------------------|----------------|---------------------|--|--|
| | High voltage (kV) | Med-ium voltage (kV) | Low voltage (kV) | | | | | Step up | Step down |
| 31500 | 220±2x2.5% 230±2x2.5% 242±2x2.5% | 69 115 121 | 6.3、6.6 | /Nyn0d11 | 32.0 | 153 | 0.55 | H-M 22~24 H-L 12~14 M-L 7~9 | H-M 12~14 H-L 22~24 M-L 7~9 |
| 40000 | | | 10.5、21 | | 38.5 | 183 | 0.50 | | |
| 50000 | | | 36、37 | | 44.0 | 216 | 0.44 | | |
| 63000 | | | 38.5 | | 52.0 | 257 | 0.44 | | |
| 90000 | | | 10.5、13.8 | | 68.0 | 333 | 0.39 | | |
| 120000 | | | 21、36、37 | | 84.5 | 410 | 0.39 | | |
| 150000 | | | 38.5 | | 100 | 487 | 0.33 | | |
| 180000 | | | 10.5、13.8 | | 113 | 555 | 0.33 | | |
| 240000 | | | 15.75、21 | | 140 | 684 | 0.29 | | |
| 300000 | | | 36、37、38.5 | | 165 | 807 | 0.24 | | |

Note 1: The capacity allocation of load loss in the table is (100/100/100)%. The capacity allocation of boost structure can be (100/50/100)%. The capacity allocation of Buck structure can be (100/50/100)% or (100/50/100)%.

Note 2: Transformers with rated capacity less than 31500 kVA and other voltage combinations can also be provided as required.

Note 3: Transformers with low voltage of 35 kV can also be provided as required.

Note 4: Priority should be given to non-splitting structure. If the operation requires, splitting can be set.

Note 5: When the average annual load rate of transformer is between 45%, the maximum operating efficiency can be obtained by using the loss value in the table.



31500kVA~180000kVA three-phase duplex-winding on-load tap changing power transformer

| Rated capacity (kVA) | Voltage combination | | Vector group | No-load loss (kW) | Load loss (kW) | No load current (%) | Short-circuit impedance (%) |
|----------------------|----------------------------|--|--------------|-------------------|----------------|---------------------|-----------------------------|
| | High voltage (kV) | Low voltage(kV) | | | | | |
| 31500 | 220±8x1.25% 230±8x1.25% | 6.3, 6.6 10.5, 11, 21 36, 37 38.5 | YNd11 | 30.0 | 128 | 0.57 | 12~14 |
| 40000 | | | | 36.0 | 149 | 0.57 | |
| 50000 | | | | 42.0 | 179 | 0.53 | |
| 63000 | | | | 50.0 | 209 | 0.53 | |
| 90000 | | | | 64.0 | 273 | 0.45 | |
| 120000 | | | | 79.0 | 338 | 0.45 | |
| 150000 | | 92.0 | | 400 | 0.41 | | |
| 180000 | | 108.0 | | 450 | 0.38 | | |
| 120000 | | 81.0 | | 337 | 0.45 | | |
| 150000 | | 96.0 | | 394 | 0.41 | | |
| 180000 | | 112 | | 451 | 0.38 | | |
| 240000 | | 140 | | 560 | 0.30 | | |

31500kVA~240000kVA three-phase three-winding on-load tap changing power transformer

| Rated capacity (kVA) | Voltage combination | | | Vector group | No-load loss (kW) | Load loss (kW) | No load current (%) | Capacity assignment | Short-circuit impedance (%) |
|----------------------|----------------------------|---------------------|--------------------------------|--------------|-------------------|----------------|---------------------|---|--|
| | High voltage (kV) | Medium voltage (kV) | Low voltage(kV) | | | | | | |
| 31500 | 220±8x1.25% 230±8x1.25% | 69 115 121 | 6.3 6.6 10.5 11 21 | YNyn0d11 | 35.0 | 153 | 0.63 | 100/100/100 100/50/100 100/100/50 | H-M 12~14 H-L 22~24 M-L 7~9 |
| 40000 | | | 33 36 37 38.5 | | 41.0 | 183 | 0.50 | | |
| 50000 | | | 56.0 | | 216 | 0.60 | | | |
| 63000 | | | 73.0 | | 257 | 0.55 | | | |
| 90000 | | | 92.0 | | 333 | 0.44 | | | |
| 120000 | | | 108 | | 410 | 0.44 | | | |
| 150000 | | | 108 | | 487 | 0.39 | | | |
| 180000 | | | 124 | | 598 | 0.39 | | | |
| 240000 | | | 154 | | 741 | 0.35 | | | |

Note 1 The data listed in the table are applicable to depressurized structural products, and boost structural products can also be provided as required.

Note 2 Transformers with low voltage of 35 kV can also be provided as required.

Note 3 When the average annual load rate of transformer is between 45% and 50%, the maximum operating efficiency can be obtained by using the loss value in the table.

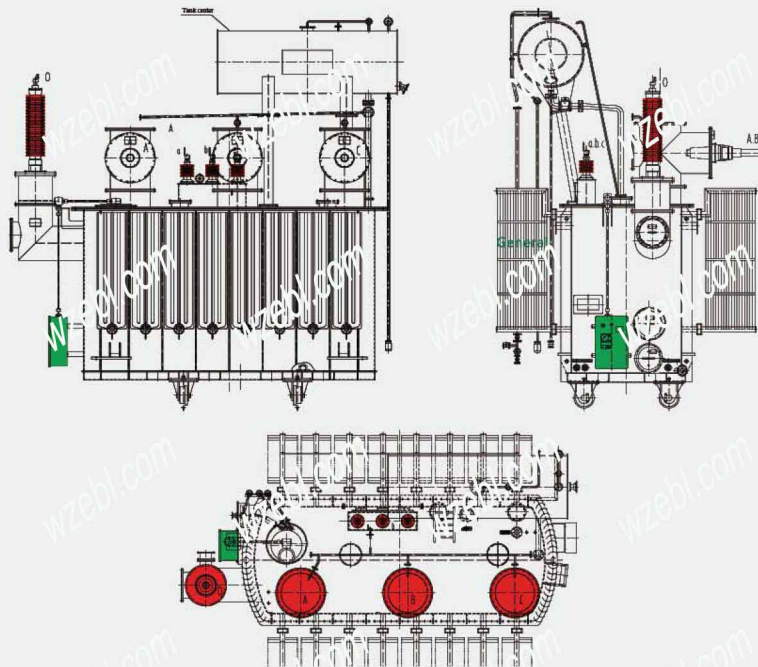
31500kVA~240000kVA three-phase three-winding on-load self-coupled power transformer

| Rated capacity (kVA) | Voltage combination | | | Vector group | No-load loss (kW) | Load loss (kW) | No load current (%) | Capacity assignment | Short-circuit impedance (%) |
|----------------------|----------------------------|---------------------|-----------------|--------------|-------------------|----------------|---------------------|---------------------|---|
| | High voltage (kV) | Medium voltage (kV) | Low voltage(kV) | | | | | | |
| 31500 | 220±8x1.25% 230±8x1.25% | 115 121 | 6.3 | YNyn0d11 | 20.0 | 102 | 0.44 | 100/100/50 | H-M 8~11 H-L 28~34 M-L 18~24 |
| 40000 | | | 6.6 | | 24.0 | 125 | 0.44 | | |
| 50000 | | | 10.5 | | 23.0 | 149 | 0.39 | | |
| 63000 | | | 21 | | 33.0 | 179 | 0.39 | | |
| 90000 | | | 36 | | 40.0 | 234 | 0.33 | | |
| 120000 | | | 37 | | 51.0 | 292 | 0.33 | | |
| 150000 | | | 38.5 | | 60.0 | 346 | 0.28 | | |
| 180000 | | | 10.5 | | 68.0 | 398 | 0.28 | | |
| 240000 | | | 21 | | 83.0 | 513 | 0.24 | | |
| | | | 36 | | | | | | |
| | 37 | | | | | | | | |
| | 38.5 | | | | | | | | |

1. Products exclusive in the product list may also be provided upon user requirements. Performance of the products will be customized.
2. Medium voltage device could select voltage value or tap other than those specified in the table upon user requirement. High voltage tapping may choose asymmetrical regulating tapping.
3. Short circuit impedance may choose value other than those defined in the table.
4. Final size is based on drawings of signed contract.

Construction

220kV three-phase duplex winding on-load voltage regulating transformer



Specification of rectifier transformer could be customized.



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