

### Production introduction

- 1.ZGS 11 combined transformer is one of the hightech products developed by our company on the basis of pad-mounted transformer.
- 2.Range of capacity:200-1000KVA.The product is suitable for the neutral-point insulation system or small-resistance grounding system in a 10KV distribution network,or neurtal-point solid grounding system of a three-phase four-wire system in a 400V distribution network.
- 3.Excellent design, reliable distribution, compact structure, light in weight, and low noise, ect; it has two types of cable outlets; ring net type and terminal type.
- 4.The product can be placed directly into the load center of 10KV network, thus the line loss is reduced and power distribution reliability is increased.

### Performance characteristics

- 1.The ZGS11 combined transformer consists of high-voltage and low-voltage chambers and transformer tank in the operation chambers.
- 2.H.V.incoming lines in 10KV cross-linked cables are connected to load switch through knuckle connectors, straight plugs and sleeve sockets.
- 3.On the high-voltage side, a protection of double fuses (backup current-limiting fuse and plug-in type of fuse are used).
- 4.There are terminal type and ring net type high-voltage load switches for selection. They are easy to connect, convert and reliable for power supply.
- 5.In the low-voltage chamber, a fixed type or drawable type is optional for the low-voltage switch cabinet according to user's requirement. Various low-voltage apparatus, such as metering and protection instruments are available. (Note: In general they are customized)
- 6.The oil tank is fully-sealed by corrugated radiators, which features compact and superior appearance.



ZGS 200~1000/10

### Applicable standards

GB1094.1-2-1996 Power Transformer  
 GB1094.3-5-2003 Power Transformer  
 JB/T10318-2002 Technical parameters and requirements for oil-immersed, non-crystal alloy iron core, distribution transformer.

### Normal service conditions

Installation type: indoor/outdoor type  
 Ambient temperature:  $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$   
 Altitude:  $\leq 1000\text{m}$   
 Humidity: daily average value  $\leq 95\%$ , monthly average value  $\leq 90\%$   
 Installation site: in places without corrosive gases, obvious dusts and water-vapour; the gradient is no more than 3% and no fierce shock.

### Performance Characteristics

- 1.Compare with type "9" transformer, the product's no-load loss is reduced by 30% and thus the average annual operating costs can be reduced by 20.03%.
- 2.The transformer body, high voltage load switch fuses and no-excitation tapping switches are all put into the fully-sealed oil tank, which make good use of the space. Therefore, the overall size of the product is only 1/3 of that of the similar product.
- 3.The plug-in and out cable connection is easy for operation.
- 4.An obstacle protection is of two-stage fuses structure (backup current-limiting fuse and plug-in type fuse) which ensures a safe and flexible operation and more convenient for replacing of fuse.
- 5.The oil tank is fully-sealed, in which the oil is totally isolated from the outside. No leakage and maintenance free.
- 6.Excellent short-circuit proof capacity and high reliability.

### Notes for placing orders

Transformer type: rated capacity kVA  
 Number of phases: three-phase single-phase  
 High voltage: kv/Low voltage: kv  
 Frequency: 50HZ 60HZ  
 Tapping range:  $\pm 2 \times 2.5\% \pm 5\%$  other  
 Connection group: Yyn0 Dyn11 other  
 Impedance voltage: 4% 6% other