

Transformer

Model: S111310KV20KV Oil-immersed Distribution Transformer

Application:

S11,S13 series full-sealed oil-immersed transformers are suitable for power systems with AC 50Hz and rated working voltages of 20kV and below,as distribution transformers for petroleum, metallurgy, chemical, textile, light industry and other dusty places.

Features:

Iron core

The core is made of high permeability magnetic grain oriented cold rolled silicon steel sheet.The iron core is a new type of iron core,and the full oblique jointed iron core has a core section of a multi-stepped step,and the iron yoke and the iron core have equal sections.

Winding

The winding adopts corrugated oi passage,no immersion paint process,and the tightening belt is ted; the windings are concentric coils: the high-voltage winding has taps corresponding to the tapping voltage requirements,and is led to the tap changer, the switch is mounted on the box cover,and needs to be cut off.The tap voltage can be changed after the power supply.

Safety protection device

The 30-2000kVA transformer is equipped with a pressure relief valve;

A gas relay with an alarm and trip terminal can be installed according to user requirements;

Oil temperature measuring device

The transformer is equipped with a tube holder of a glass thermometer,and the tube seat is arranged a the top of the oil tank and protrudes into the oil by 120 ± 10 mm;

The 1000-2000kVA transformer is equipped with an outdoor signal thermometer;

Transformer tank

The transformer tank is composed of corrugated walls with dust on the surface.

Spray and paint film is firm.The corrugated fins not only have a cooling function,but also have a"breathing"function.The elasticity of the corrugated fins can compensate for the change in the volume of the transformer oil caused by the temperature rise and fall.Therefore,the fully sealed transformer has no oil storage cabinet,which reduces the over all height of the transformer;

The transformer is vacuum-filled during packaging,completely removing the moisture in the transformer,and the transformer oil is not in contact with the air.Effectively prevent oxygen and moisture from intruding into the transformer,resulting in a decrease in the insulation performance of the transformer and the possibility of aging of the transformer oi,so the oil sample test is performed irregularly;

Specification:

S11-M 6 ~ 1 0kV Oil immersed distribution transformer

Rated	Voltage combination and tap range				No-load	Short circuit
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Capacity (kVA)	(H.V.)	High voltage tap range(%)	(L.V.)	Junction group label	Load (W)	loss (W)	Load (W)	loss (W)	current (%)	impedance (%)				
30	11	±5	0.4	Dn	100	630/600	2.3	4						
50					130	910/870	2.0	4						
63					150	1090/1040	1.9	4						
80					180	1310/1250	1.9	4						
100					200	1580/1500	1.8	4						
125					240	1890/1800	1.7	4						
160					280	2310/2200	1.6	4						
200					340	2730/2600	1.5	4						
250					10.5	±2×2.5%	0.69		400	3200/3050	1.4	4		
315					10				480	3830/3650	1.4	4		
400					6				570	4520/4300	1.3	4		
500									680	5410/5150	1.2	4		
630									810	6200	1.1	4.5		
800									960	7500	1.0	4.5		
1000									1150	10300	1.0	4.5		
1250									1360	12000	0.9	4.5		
1600									1640	14500	0.8	4.5		
2000									1960	19800	0.8	5		
2500						2310	23000	0.7	5					

S11-M 2 0kV (30kVA~1600kVA Three-phase double winding non-excitation voltage regulating distribution transformer)

Rated Capacity (kVA)	Voltage combination and tap range			Junction group label	Load loss (W)	Load loss (W)	No-load current (%)	Short circuit impedance (%)				
	(H.V.)	High voltage tap range(%)	(L.V.)									
30	11	±5	0.4	bn	100	630/600	2.3	4				
50					130	910/870	2.0	4				
63					150	1090/1040	1.9	4				
80					180	1310/1250	1.9	4				
100					200	1580/1500	1.8	4				
125					240	1890/1800	1.7	4				
160					280	2310/2200	1.6	4				
200					340	2730/2600	1.5	4				
250					105	±2×2.5%	0.69		400	3200/3050	1.4	4
315					6				480	3830/3650	1.4	4
400									570	4520/4300	1.3	4
500									680	5410/5150	1.2	4
630									810	6200	1.1	4.5
800									960	7500	1.0	4.5

1000					1150	10300	1.0	4.5
1250					1360	12000	0.9	4.5
1600					1640	14500	0.8	4.5
2000					1960	19800	0.8	5
2500					2310	23000	0.7	5

S13-M 6~10KV Oil-immersed distribution transformer

Rated Capacity (kVA)	Voltage combination and tap range			Junction group label	Load loss (W)	Load loss (W)	No-load current (%)	Short circuit impedance (%)
	(H.V.)	High voltage tap range(%)	(L.V.)					
30	6	6.3 6.6±5 ±2×2.5%	0.4	Dyn11 Yzn11 YynO	80	630/600	1.8	4
50					100	910/870	1.6	4
63					110	1090/1040	1.6	4
80					130	1310/1250	1.5	4
100					150	1580/1500	1.4	4
125					170	1890/1800	1.4	4
160					200	2310/2200	1.3	4
200					240	2730/2600	1.2	4
250					290	3200/3050	1.2	4
315					340	3830/3650	1.1	4
400					410	4520/4300	1.1	4
500					480	5410/5150	1.0	4
630					570	6200	0.9	4.5
800					700	7500	0.8	4.5
1000					830	10300	0.8	4.5
1250					970	12000	0.7	4.5
1600					1170	14500	0.6	4.5

S13-M 2 0kV Oil-immersed distribution transformer

Rated Capacity (kVA)	Voltage combination and tap range			Junction group label	Load loss (W)	No-load current (%)	Short circuit impedance (%)
	(H.V.)	High voltage tap range(%)	(L.V.)				
50	20	±5	0.4	Dyn11 YynO	170	2.00	6.5
100					230	1.80	6.5
125					270	1.70	6.5
160					290	1.60	6.5
200					340	1.50	6.5
250					410	1.40	6.5
315					490	1.40	6.5

400	24	±2×2.5%			580	1.30	6.5
500					690	1.20	6.5
630					830	1.10	6.5
800					980	1.00	6.5
1000					1150	1.00	6.5
1250					1410	0.90	6.5
1600					1700	0.80	6.5

Note:1.The load loss above the dagona line in the table is applicable to the Dyn11 comecon group.The load loss value below the dagona line is applicable to the rymo connection group.

2.The performance parameters of other capacity products shall be determined by the user and the manufacturer.