

Oil-immersed Distribution Transformer



10kV (11kV), 20kV (22kV) /S11, S13, S20, S22 series of fully sealed oil-immersed transformers are suitable for AC 50Hz, rated working voltage 20kV (22kV) and below in the power system, as petroleum, metallurgy, chemical, textile, light industry and other enterprises and large dust places of the distribution transformer.

- Core is made of high permeability grain oriented cold-rolled silicon steel. The core of the new core, miter joints convolution type iron core, its legs of circular cross section multi-step, the yoke and the core of constant section.
- Windings corrugated oil passage, not dipping process, tightening belt lashing; concentric coil windings are: high voltage winding has a corresponding tap voltage requirements, lead to a tap on the switch, the switch is mounted on the cover, and the need to cut After the power supply before converting voltage tap.
- 30~2000kVA transformer equipped with a pressure release valve;
- Can be installed with alarm and trip relays gas terminals according to user needs;
- Heads transformers are equipped with a glass thermometer, tube socket located on the top of the tank, inserted into the oil 120±10mm;
- 1000~2000kVA transformer type equipped with outdoor thermometer signal;
- Constituted by a corrugated wall transformer tank, the surface dust

Spray, paint firm. Corrugated fins not only has a cooling function, but also changes in the volume of transformer oil "breathe" elasticity, corrugated fins may compensate for temperature caused by lifting. Therefore, there is no conservator sealed transformer, the transformer reduces the overall height;

Transformer vacuum oiling process at the time of packaging, completely removes moisture transformers, transformer oil is not in contact with air. Effectively prevent oxygen and moisture intrusion caused by transformer insulation transformers and transformer oil aging performance possible, so from time to time oil sample test;

10kV (11kV) /S11 Series Oil-immersed Distribuiton Transformer

Technical parameters of S11-M type 6kV, 10kV oil-immersed three-phase double-winding non-exciting voltage regulation distribution transformer

Rated Capacity (kVA)	Voltage Combination and Tap Range			Vector Group Symbol	No-load Loss(W)	Load Loss (W)	No-load Current (%)	Short Circuit Impedance (%)
	High Pressure (kV)	High Pressure tap range (%)	LowPressure (kV)					
30	11 10.5 10 6.3 6	±5 ±2×2.5%	0.4 0.69	Yyn0 Dyn11	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					400	3200/3050	1.4	4
315					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

20kV (22kV) /S11 Series Oil-immersed Distribuiton Transformer

Technical parameters of S11-M 20kV oil-immersed three-phase double-winding unexcited voltage regulation distribution transformer

Rated Capacity (kVA)	Voltage Combination and Tap Range			Vector Group Symbol	No-load Loss(W)	Load Loss (W)	No-load Current (%)	Short Circuit Impedance (%)
	High Pressure (kV)	High tap range (%)	LowPressure (kV)					
50	20 22 24	±5 ±2×2.5%	0.4	Dyn11 Yyn0	170	1270/1210	2.00	6.5
100					230	2120/2020	1.80	6.5
125					270	2500/2380	1.70	6.5
160					290	2970/2830	1.60	6.5
200					340	3500/3330	1.50	6.5
250					410	4160/3960	1.40	6.5
315					490	5010/4770	1.40	6.5
400					580	6050/5760	1.30	6.5
500					690	7280/6930	1.20	6.5
630					830	8280	1.10	6.5
800					980	9900	1.00	6.5
1000					1150	12150	1.00	6.5
1250					1410	14670	0.90	6.5
1600					1700	17550	0.80	6.5

10kV (11kV) /S13 Series Oil-immersed Distribuiton Transformer

Technical parameters of S13-M type 6kV, 10kV oil-immersed three-phase double-winding non-exciting voltage regulation distribution transformer

30	11 10.5 10 6.3 6	±2×2.5 ±5	0.4	130	1510	1580	0.96	4.0
100				150	1580	1570	0.88	
125				170	1890	1850	0.88	
160				200	2310	2130	0.80	
200				240	2730	2530	0.80	
250				290	3200	2760	0.72	
315				340	3830	3470	0.72	
400				410	4520	3990	0.64	
500				480	5410	4880	0.64	4.5
630				570	6200		0.48	
800				700	7500		0.48	
1000				830	10300		0.48	
1250				970	12000		0.40	
1600				1170	14500		0.40	
2000				1360	18300		0.32	
2500				1600	21200		0.32	

Note: Dimensions are for reference only and are based on the actual drawings and dimensions provided.

20kV (22kV) /S13 Series Oil-immersed Distribuiton Transformer

Technical parameters of S13-M 20KV oil-immersed three-phase double-winding unexcited voltage regulation distribution transformer

Rated Capacity (kVA)	High Pressure (kV)	High tap range (%)	Low Pressure (kV)	Vector Group Symbol	S13-M		No-load Current (%)	Short Circuit Impedance (%)
					No-load Loss(W)	Load Loss (W)		
30					80	660/630	1.70	
50					100	950/910	1.60	

Note: Dimensions are for reference only and are based on the actual drawings and dimensions provided.

20kV (22kV) /S13 Series Oil-immersed Distribuiton Transformer

Technical parameters of S13-M 20kV oil-immersed three-phase double-winding unexcited voltage regulation distribution transformer

Rated Capacity (kVA)	High Pressure (kV)	High tap range (%)	Low Pressure (kV)	Vector Group Symbol	S13-M		No-load Current (%)	Short Circuit Impedance (%)
					No-load Loss(W)	Load Loss (W)		
30	20 22 24	±2×2.5 ±5	0.4	Dyn11 Yzn11 Yyn0	80	660/630	1.70	5.5
50					100	960/910	1.60	
63					120	1140/1090	1.50	
80					140	1370/1300	1.40	
100					160	1640/1570	1.30	
125					190	1980/1880	1.20	
160					230	2410/2300	1.10	
200					270	2850/2720	1.00	
250					320	3340/3180	0.96	6.0
315					380	4000/3810	0.88	
400					460	4720/4490	0.80	
500					540	5640/5380	0.80	
630					650	6480	0.72	
800					780	7840	0.64	
1000					920	10700	0.56	
1250					1100	12500	0.56	
1600					1330	15100	0.48	5
2000					1560	19100	0.48	
2500					1870	22200	0.40	

Note1: Slash the top of the table load loss applicable to Dyn11 join groups, load loss slash Yyn0 below values apply to join the group.

2. Other capacity product performance parameters, determined by the user in consultation with the manufacturer.

3. Dimensions are for reference only and are based on the actual drawings and dimensions provided.

10kV (11kV) /S20 Series Oil-immersed Distribuiton Transformer

Technical parameters of S20-M type 6kV, 10kV oil-immersed three-phase double-winding non-exciting voltage regulation distribution transformer

50	11 10.5 10 6.3 6	±2×2.5 ±5	0.4	90	730	695	1.04	4.0
63				100	870	830	0.96	
80				115	1050	1000	0.96	
100				135	1265	1200	0.88	
125				150	1510	1440	0.88	
160				180	1850	1760	0.80	
200				215	2185	2080	0.80	
250				260	2560	2440	0.72	4.5
315				305	3065	2920	0.72	
400				370	3615	3440	0.64	
500				430	4330	4120	0.64	
630				510	4960		0.48	
800				630	6000		0.48	
1000				745	8240		0.48	
1250				870	9600		0.40	
1600				1050	11600		0.40	
2000				1225	14640		0.32	5
2500				1440	14840		0.32	

Note: Dimensions are for reference only and are based on the actual drawings and dimensions provided.

20kV (22kV) /S20 Series Oil-immersed Distribuiton Transformer

Technical parameters of S20-M type 20KV oil-immersed three-phase double-winding unexcited voltage regulation distribution transformer

Rated	High	High	Low	Vector	S20-M	No-load	Short Circuit
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Note: Dimensions are for reference only and are based on the actual drawings and dimensions provided.

20kV (22kV) /S20 Series Oil-immersed Distribuiton Transformer

Technical parameters of S20-M type 20kV oil-immersed three-phase double-winding unexcited voltage regulation distribution transformer

30	20 22 24	$\pm 2 \times 2.5$ ± 5	0.4	Dyn11 Yzn11 Yyn0	120	920/912	1.00	5.5
80					125	1096/1040	1.40	
100					145	1312/1256	1.30	
125					170	1584/1504	1.20	
160					205	1928/1840	1.10	
200					245	2280/2176	1.00	
250					290	2672/2544	0.96	
315					340	3200/3048	0.88	6.0
400					415	3776/3592	0.80	
500					485	4512/4304	0.80	
630					585	5184	0.72	
800					700	6272	0.64	
1000					830	8560	0.56	
1250					990	10000	0.56	
1600	1200	12080	0.48					
2000	1405	15280	0.48					
2500	1680	17760	0.40					

10kV (11kV) /S22 Series Oil-immersed Distribuiton Transformer