



# S11 Type Oil-immersed Distribution Transformer



#### Performance Feature

- 1. High voltage windings all adopt a multi-layered cylindrical structure, improving the impact distribution of the windings.
- 2. Transformer body is added with a positioning structure, making it not easy to produce displacement in the process of transportation. Additionally, all fasteners are added with fastening screws, ensuring that the product's fasteners will not lose during its long-term operation and meeting the requirement that the core does not fall out.
- 3. Iron cores adopt high quality cold rolled grain oriented silicon steel sheets which are piled with fully inclined seams, and transformers adopt vacuum oil injection.
  - 4. After deoiling, derusting, and phosphating treatment, the product

surface is applied with primer and finishing paint to meet the special use requirements of metallurgical or petrochemical systems and damp or dirty areas. As ideal maintenance-free products, the whole series products feature nice appearance, small volume, and small occupied area.

# Technical parameters

	V	oltage Combination	Winding	NT- 11	Lood	Short	NT - 1 1	
Rated Capacity	High Voltage (kV)	Tapping Range of High Voltage (%)	Low Voltage (kV)	Winding Connection Grade	No-load Loss (W)	Load Loss (W)	Circuit Impedance (%)	No-load Current (A)
30					100	630		1.8
50					130	910		1.6
63					150	1090		1.5
80					180	1310		1.5
100					200	1580		1.4
125					240	1890	4.0	1.4
160	6				280	2310	7.0	1.3
200	6.3				340	2730		1.2
250	6.6	±5			400	3200		1.1
315	10	±2×2.5	0.4	Dyn11	480	3830		1.1
400	10.5				570	4520		1.0
500	11				680	5430		1.0
630					810	6200		0.9
800					980	7500		0.8
1000					1150	10300		0.8
1250					1360	12000	4.5	0.7
1600					1640	14500		0.6
2000					1940	18300		0.6
2500					2290	21200		0.5



## Power Transformer Series Products

# S13 Type Oil-immersed Distribution Transformer



### Performance Feature

- 1. Low-voltage windings generally adopt a cylindrical or spiral structure; high-voltage windings adopt a multi-layered cylindrical structure, resulting in balanced distribution of their ampere-turns, low magnetic flux leakage, high mechanical strength, and strong anti-short circuit ability.
- 2. Vacuum drying is used for coils and iron cores, and vacuum oil filtering and injection process is for transformer oil, making transformers' internal moisture to a minimum.
- 3. Iron cores and winding adopt tightening measures respectively, high- and low-voltage leads and other fastening parts use self-locking locknuts and a structure free of core falling out, so that transformers are able to withstand vibration and shock during transportation.
- 4. Replacement of oil storage tank with corrugated sheets makes the transformer oil isolate with the outside, thus effectively preventing oxygen and water from entering and thus declining insulation performance.
- 5. The five performance features above guarantee normal operation of oil-immersed transformers without oil change, greatly reduce the maintenance cost of transformers, and prolong the service life of transformers.

# Technical parameters

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Rated Capacity	High Voltage	Voltage Combination  Tapping Range of		Winding Connection	No-load Loss	Loss	Short Circuit Impedance	Current
	(kV)	High Voltage (%)	(kV)	Grade	(W)	(W)	(%)	(A)
30					80	630		1.8
50					100	910		1.6
63					110	1090		1.5
80					130	1310		1.5
100					150	1580		1.4
125					170	1890	4.0	1.4
160	6				200	2310	4.0	1.3
200	6.3				240	2730		1.2
250	6.6	±5			290	3200		1.1
315	10	±2×2.5	0.4	Dyn11	340	3830		1.1
400	10.5				410	4520		1.0
500	11				480	5430		1.0
630					570	6200		0.9
800					700	7500		0.8
1000					830	10300		0.8
1250					970	12000	4.5	0.7
1600					1170	14500		0.6
2000					1550	18300		0.6
2500					1830	21200		0.5





# S15 Type Amorphous Alloy Distribution Transformer



#### Performance Feature

- 1. Transformer cores are made of amorphous alloy strip coils, no-load loss is about 75% lower than and no-load current is nearly 80% lower than that of S9 type transformers.
- 2. Copper foil coils are used for low voltage transformers, resulting in stronger ability to resist sudden short circuit.
- 3. Transformer winding connection adopts Dynll to reduce the influence of harmonic on power grid and improve the quality of power supply.
- 4. Transformer boxes adopt a fully sealed structure to prolong service life and be free of maintenance.
- 5. Transformers adopt vacuum oil injection to completely remove air bubbles in coils and ensure the stability of insulation performance.
- 6. Each transformer is tested with full wave lightning impulse tests for peak voltage before delivery, conforming to the national standard, to ensure fully reliable operation of transformers.

## Technical parameters

	Voltage Combination			TT7' 1'				
Rated Capacity	High Voltage (kV)	Tapping Range of High Voltage (%)	Low Voltage (kV)	Winding Connection Grade	No-load Loss (W)	Load Loss (W)	Short Circuit Impedance (%)	No-load Current (A)
30					33	630		1.5
50					43	910		1.2
63					50	1090		1.0
80					60	1310		0.9
100					75	1580		0.8
125					85	1890	4.0	0.6
160	6				100	2310	7.0	0.6
200	6.3				120	2730		0.6
250	6.6				140	3200		0.5
315	10	±2×2.5	0.4	Dyn11	170	3830		0.5
400	10.5				200	4520		0.5
500	11				240	5430		0.3
630					320	6200		0.3
800					380	7500	4.5	0.3
1000					450	10300		0.2
1250					530	12000		0.2
1600					630	14500		0.2
2000					750	18300		0.2
2500					900	21200		0.6



### Power Transformer Series Products

# SCB10 Type Dry Distribution Transformer



### Performance Feature

- 1. Transformers are safe, fire preventive, free of pollution, and capable to be run directly in the load center.
- 2. Produced with the domestically advanced technology, transformers feature high mechanical strength, strong short-circuit resistance, small partial discharge, good thermal stability, high reliability, and long service life.
- 3. Transformers feature low loss, low noise, obvious energy-saving effect, and are maintenance free.
- 4. Transformers feature good heat dissipation performance, strong overload capacity, and higher running capacity at forced air cooling.
- 5. Transformers feature good moisture-proof performance and suitable for high humidity and other harsh environments.
- 6. Dry type transformers can be equipped with perfect temperature detecting and protection system. The intelligent signaling and temperature control system can automatically detect and display working temperature of three-phase windings, automatically start and stop the fan, and has the functions such as alarming and tripping.
  - 7. Transformers feature small volume, light weight, small occupied space, and low installation cost.

# Technical parameters

Rated Capacity	No-load Loss	Load Loss @ di	Short Circuit			
kVA	W	B(100%)	F(120°C)	H(145°C)	Impedance%	
30	190	670	710	760		
50	270	940	1000	1070		
80	370	1290	1380	1480		
100	400	1480	1570	1690		
125	470	1740	1850	1980		
160	540	2000	2130	2280	4.0	
200	620	2370	2530	2710	4.0	
250	720	2590	2760	2960		
315	880	3270	3470	3730		
400	980	3750	3990	4280		
500	1160	4590	4880	5230		
630	1340	5530	5880	6290		
630	1300	5610	5960	6400		
800	1520	6550	6960	7460		
1000	1770	7650	8130	8760		
1250	2090	9100	9690	10370	6.0	
1600	2450	11050	11730	12580		
2000	3050	13600	14450	15560		
2500	3600	16150	17170	18450		
1600	2450	12280	12960	13900		
2000	3050	15020	15960	17110	8.0	
2500	3600	17760	18890	20290		