Our goal is the sea of stars!

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Giantele®

Oil-immersed Transformer



www.giant-electric.com

ZHEJIANG ZHEGUI ELECTRIC CO., LTD.

S9 Oil-immersed power transformer

Safety/Environmental/energy

The ideal power distribution equipment for large distribution network centers in cities and rural areasnding the service life of the transformer oil and reducing the maintenance workload of the transformer.

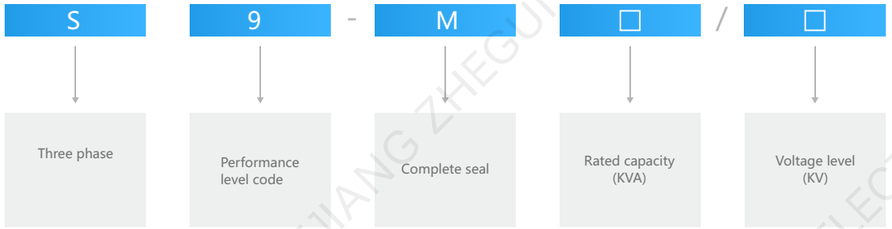


Product introduction

S9-M series fully sealed transformer is a summary of S7, S9 series transformer product design experience on the basis of increasing product function, improve product level, improve product reliability in the first place. New components, new materials and new structure are adopted to improve the electrical strength, mechanical strength and heat dissipation capacity of the product, and the corrugated oil tank and fully sealed structure are adopted to ensure that the transformer oil is completely isolated from the air, extending the service life of the transformer oil and reducing the maintenance workload of the transformer.

ZHEJIANG ZHEGUI ELECTRIC CO., LTD.

Model meaning



Environmental condition

- 1. Maximum ambient temperature: +40℃
- 2. Minimum ambient degree: -25℃
- 3, altitude: < 1000m
- 4. Maximum monthly average relative humidity: 90%(20℃)
- 5, installation location: installed in a place without fire, explosion danger, serious pollution, chemical corrosion and violent vibration, indoor or outdoor.

Executive standard

- GB 1094 Power transformer
- GB/T 6451 three-phase oil-immersed power transformer technical parameters and requirements
- GB 311.1 Insulation coordination of high voltage power transmission and transformation equipment
- GB 10237 Power transformer insulation level and insulation test external insulation air gap
- GB 2536 transformer oil
- GB/T 15164 Load guidelines for oil-immersed power transformers
- JB/T 501 Test guidelines for power transformers
- DL/T 572 transformer operation code

Product characteristics

- 1. Corrugated oil tank, fully sealed structure, corrugated board wall has two functions of heat dissipation and expansion and contraction, corrugated board wall with the change of temperature, the size of the load, the level of the transformer oil temperature in the tank and white dynamic expansion and contraction, corrugated board wall expansion and contraction capacity is greater than 10,000 times, to ensure that the transformer oil and air are completely isolated, in the transformer life cycle without maintenance.
- 2. The fully sealed transformer is equipped with a pressure release valve, which expands the application range of the pressure release valve and increases the effective safety protection of the product.
- 3. The new double-sealed vertical switch is adopted to improve the sealing performance of the switch.
- 4. The new type of lock nut is used to ensure that the transformer body is tight and not loose during transportation.
- 5. Adopts the hanging plate with buffer structure to ensure that the body can "fall" and does not cover the box.
- 6. Before installation, open the nut at the top of the gas plug and check the oil level. If the oil level is less than 50mm from the top, fill transformer oil with the same oil number to the top 30mm.

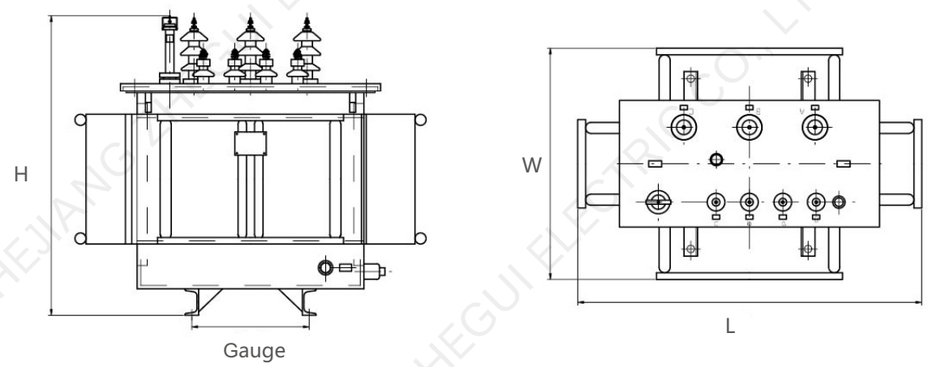
Performance parameter

Model number	Rated capac-ity	Join group label	Voltage combination (kV)			No-load loss	Load loss	No-load current	Short-circuit impe-dance	Dimensions (mm)			Weight (kg)		Gauge
	kVA		High tension	Tapping range	Low pressure	W	W	%	%	L	W	H	Oil	weight	mm
S9-M-30	30	Yyn0 or Dyn11	6 6.3 10 10.5 11	±5% or ±2×2.5%	0.4	130	600	2.3	4.0	740	665	875	74	283	400×500
S9-M-50	50					170	870	2.0	4.0	770	675	965	88	362	400×500
S9-M-63	63					200	1040	1.9	4.0	820	700	1020	112	442	450×500
S9-M-80	80					250	1250	1.9	4.0	835	705	1040	117	481	450×500
S9-M-100	100					290	1500	1.8	4.0	850	715	1055	122	520	450×500
S9-M-125	125					340	1800	1.7	4.0	1180	740	1115	154	667	500×500
S9-M-160	160					400	2200	1.6	4.0	1225	775	1175	176	788	500×500
S9-M-200	200					480	2600	1.5	4.0	1245	790	1195	193	898	500×500
S9-M-250	250					560	3050	1.4	4.0	1340	880	1230	209	1027	550×500
S9-M-315	315					670	3650	1.4	4.0	1425	935	1260	234	1177	550×500
S9-M-400	400					800	4300	1.3	4.0	1470	955	1330	265	1399	550×600
S9-M-500	500					960	5100	1.2	4.0	1490	960	1405	283	1576	550×600
S9-M-630	630					1200	6200	1.1	4.5	1585	1030	1370	317	1771	660×660
S9-M-800	800					1400	7500	1.0	4.5	1675	1090	1480	366	2128	660×820
S9-M-1000	1000					1700	10300	1.0	4.5	1775	1175	1530	402	2379	660×820
S9-M-1250	1250					1950	12800	0.9	4.5	1965	1155	1700	542	3023	820×820
S9-M-1600	1600					2400	14500	0.8	4.5	2055	1210	1800	616	3591	820×820

Insulation level

Voltage level (kv)	Maximum operating voltage kV (effective value)	Rated short-time power frequency withstand voltage kV(RMS)/1 minute	Rated lightning impulse withstand voltage kV (peak)	
			Full wave	Clipped wave
0.4	0.46	5		
10	12	35	75	85

Insulation level



S11 Oil-immersed power transformer

Safety/Environmental/energy

The ideal power distribution equipment for large distribution network centers in cities and rural areasnding the service life of the transformer oil and reducing the maintenance workload of the transformer.

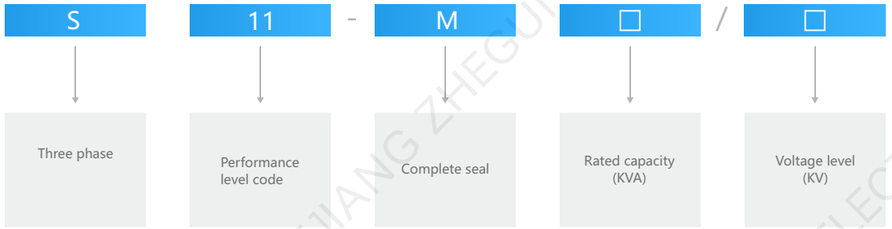


Product introduction

The S11-M series fully sealed oil-immersed power transformer developed and produced by our company has the advantages of low loss, low noise and high efficiency, which can achieve good energy saving effect and reduce pollution. Compared with the ordinary oil-immersed transformer, the fully-sealed transformer eliminates the oil storage tank, the oil volume change is automatically adjusted and compensated by the elasticity of the corrugated sheet of the corrugated oil tank, the transformer is isolated from the air, prevents and slows down the deterioration of the oil and insulation aging, enhances the operation reliability, and the normal operation is maintenance-free.

ZHEJIANG ZHEGUI ELECTRIC CO., LTD.

Model meaning



Environmental condition

- 1. Maximum ambient temperature: +40℃
- 2. Minimum ambient degree: -25℃
- 3, altitude: < 1000m
- 4. Maximum monthly average relative humidity: 90%(20℃)
- 5, installation location: installed in a place without fire, explosion danger, serious pollution, chemical corrosion and violent vibration, indoor or outdoor.

Executive standard

- GB 1094 Power transformer
- GB/T 15164 oil-immersed power transformer Load guide GB/T 6451 three-phase oil-immersed power transformer technical parameters and requirements
- GB 2536 transformer oil
- GB 311.1 Insulation coordination of high voltage power transmission and transformation equipment
- JB/T 501 Test guidelines for power transformers
- GB 10237 Power transformer insulation level and insulation test external insulation air gap
- DL/T572 Transformer operation code

Product characteristics

- 1. The transformer core is made of imported high-quality cold-rolled silicon steel sheet, which greatly reduces no-load loss and no-load current, and binds the core to ensure the firmness of the core and reduce noise.
- 2. The high and low voltage winding is wound with oxygen-free copper, the low voltage winding is 500kVA and below the double-layer cylinder structure, the 630kVA and above the double helix or quadruhelix structure, and the high voltage winding is multi-layer cylinder structure.
- 3. The transformer connection group adopts Dyn11 to reduce the influence of Norwave on the power grid and improve the quality of power supply.
- 4, the transformer is fully sealed structure, extend the service life, free lifting center, free maintenance.
- 5. Measured voice value is below standard.

Performance parameter

Model number	Rated capac-ity	Join group label	Voltage combination (kV)			No-load loss	Load loss	No-load current	Short-circuit impe-dance	Dimensions (mm)			Weight (kg)		Gauge
	kVA		High tension	Tapping range	Low pressure	W	W	%	%	L	W	H	Oil	weight	mm
S11-M-30	30	Yyn0 or Dyn11	6 6.3 10 10.5 11	±5% or ±2×2.5%	0.4	100	600	2.3	4.0	740	665	875	74	283	400×500
S11-M-50	50					130	870	2.0	4.0	770	675	965	88	362	400×500
S11-M-63	63					150	1040	1.9	4.0	820	700	1020	112	442	450×500
S11-M-80	80					180	1250	1.9	4.0	835	705	1040	117	481	450×500
S11-M-100	100					200	1500	1.8	4.0	850	715	1055	122	520	450×500
S11-M-125	125					240	1800	1.7	4.0	1180	740	1115	154	667	500×500
S11-M-160	160					280	2200	1.6	4.0	1225	775	1175	176	788	500×500
S11-M-200	200					340	2600	1.5	4.0	1245	790	1195	193	898	500×500
S11-M-250	250					400	3050	1.4	4.0	1340	880	1230	209	1027	550×500
S11-M-315	315					480	3650	1.4	4.0	1425	935	1260	234	1177	550×500
S11-M-400	400					570	4300	1.3	4.0	1470	955	1330	265	1399	550×600
S11-M-500	500					680	5100	1.2	4.0	1490	960	1405	283	1576	550×600
S11-M-630	630					810	6200	1.1	4.5	1585	1030	1370	317	1771	660×660
S11-M-800	800					980	7500	1.0	4.5	1675	1090	1480	366	2128	660×820
S11-M-1000	1000					1150	10300	1.0	4.5	1775	1175	1530	402	2379	660×820
S11-M-1250	1250					1360	12800	0.9	4.5	1965	1155	1700	542	3023	820×820
S11-M-1600	1600					1460	14500	0.8	4.5	2055	1210	1800	616	3591	820×820

Performance parameter

Model number	Rated cap-acity	Join group label	Voltage combination (kV)			No-load loss	Load loss	No-load current	Short-circuit impe-dance
	kVA		High tension	Tapping range	Low pressure	W	W	%	%
S11-M-30	30	Dyn11	20	±5% or ±2×2.5%	0.4	90	660	2.1	5.5
S11-M-50	50					130	960	2.0	5.5
S11-M-63	63					150	1145	1.9	5.5
S11-M-80	80					180	1370	1.8	5.5
S11-M-100	100					200	1650	1.6	5.5
S11-M-125	125					240	1980	1.5	5.5
S11-M-160	160					290	2420	1.4	5.5
S11-M-200	200					330	2860	1.3	5.5
S11-M-250	250					400	3350	1.2	5.5

Model number	Rated cap-acity	Join group label	Voltage combination (kV)			No-load loss	Load loss	No-load current	Short-circuit impe-dance
	kVA		High tension	Tapping range	Low pressure	W	W	%	%
S11-M-315	315	Dyn11	20	±5% or ±2×2.5%	0.4	480	4010	1.1	5.5
S11-M-400	400					570	4730	1.0	5.5
S11-M-500	500					680	5660	1.0	5.5
S11-M-630	630					810	6820	0.9	6.0
S11-M-800	800					980	8250	0.8	6.0
S11-M-1000	1000					1150	11330	0.7	6.0
S11-M-1250	1250					1350	13200	0.7	6.0
S11-M-1600	1600					1630	15950	0.6	6.0

Note: The 20KV transformer can be according to customer requirements, the high voltage test can produce double voltage connection, the transformer input end can be easily converted according to the difference of the two voltages of the net hole 2OKV and 1OKV by using the transfer switch.

Insulation level

Voltage level (kv)	Maximum operating voltage kV (effective value)	Rated short-time power frequency withstand voltage kV(RMS)/1 minute	Rated lightning impulse withstand voltage kV (peak)	
			Full wave	Clipped wave
0.4	0.46	5	75	85
10	12	35		
20	23	55	125	140