



- c The S□¬M series three-phase oil-immersed transformer adopts a fully oil-filled, sealed corrugated oil tank. and the oil tank shell adapts to the expansion performance of the oil with its own elasticity and meets the heat dissipation requirements. It has the characteristics of high efficiency and low loss, which can save a lot of power consumption and operating costs, and is widely used in power plants, substations, industrial and mining enterprises, ports, airports and other environmental protection places.
- Standard: IEC60076-1, IEC60076-2, IEC60076-3, IEC60076-5, IEC60076-10.









S□-M Series Oil-immersed Fully Sealed

Selection



Operating conditions

- 1. Ambient temperature: maximum temperature: +40°C, minimum temperature: -25°C.
- 2. Average temperature of the hottest month:+30°C, average temperature in the hottest year: +20°C.
- 3. Altitude not exceeding 1000m.
- 4. The waveform of the power supply voltage is similar to a sine wave.
- 5. The three-phase supply voltage should be approximately symmetrical.
- 6. The total harmonic content of the load current shall not exceed 5% of the rated current.
- 7. Where to use: indoors or outdoors.

Features

- 1. The product has the characteristics of high efficiency, low loss, low noise, etc.
- 2. High mechanical strength, balanced ampere-turn distribution, and strong short-circuit resistance.
- 3. Low no-load and load loss.
- 4. Small size, reliable operation, long service life, and maintenance free.

10KV Oil-immersed Transformer

S□-M Series Oil-immersed Fully Sealed









Structure

- Iron core:
- The iron core is made of high-quality, high-performance, high-permeability silicon steel sheet, with low no-load loss.
- High/low voltage winding:
- The low-voltage winding of 500KVA and below is a layer type, and the new spiral type is used for 630KVA and above.
- It has the characteristics of high mechanical strength, balanced ampere turn distribution, and strong short-circuit resistance.
- Fully sealed structure:
- The product is a fully sealed structure. The vacuum oil filling process is used for the transformer packaging, which completely removes the moisture of the transformer, ensures the isolation of the transformer oil from the outside air, prevents the aging of the oil, and improves the operation reliability of the transformer.
- Positioning structure:
- The product body has added a positioning structure to prevent displacement during transportation, and all fasteners are equipped with fastening nuts to ensure that the fasteners do not loosen during long-term operation of the product.
- Oil tank:
- The oil tank adopts a corrugated oil tank. Simple process, high mechanical strength, good welding effect, not easy to leak, due to the strong fluidity of the oil, the heat dissipation capacity of the product is improved.
- Other configuration:
- Equipped with pressure relief valve, signal thermometer, ensures the safe operation of the transformer.

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S□-M Series Oil-immersed Fully Sealed

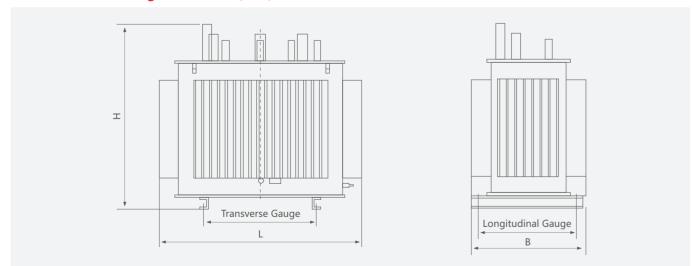
S9-M 30~2500/10KV technical data

Rated	Voltage combination			Connection	No load	Load	No-load	Short circuit	D	imensio	Total		
capacity (KVA)	High voltage (KV)	Tapping range	Low voltage (KV)	group label		loss(W)	current (%)	impedance (%)	L	W	Н	weight (kg)	
30					130	630/600	2.3	_	745	530	890	280	
50					170	910/870	2.0		790	560	940	365	
63					200	1090/1040	1.9		820	570	950	425	
80					250	1310/1250	1.9	4.0	850	580	1000	485	
100				D 1.1	290	1580/1500	1.8		900	620	1010	540	
125				Dyn11	340	1890/1800	1.7		880	630	1050	610	
160				Yyn0 Yzn11 400 480 560 670 800 960	400	2310/2200	1.6		950	690	1120	710	
200	6				480	2730/2600	1.5		990	730	1200	835	
250	6.3	±5			560	3200/3050	1.4		1180	700	1200	970	
315	10	±2×2.5	0.4		670	3830/3650	1.4		1230	760	1250	1125	
400	10.5	±2×2.5			800	4520/4300	1.3		1260	800	1300	1310	
500	11				960	5410/5150	1.2		1400	900	1320	1530	
630					1200	6200	1.1		1530	940	1350	1890	
800					1400	7500	1.0		1580	1000	1420	2185	
1000				Dyn11 . Yyn0 .	1700	10300	1.0	4.5	1770	1180	1450	2480	
1250					1950	12000	0.9		1920	1290	1430	3020	
1600					2400	14500	0.8		1990	1340	1620	3550	
2000					3000	17100	0.7	F 0	1950	1680	2100	4530	
2500						3300	23200	0.7	5.0	2020	1710	2100	5030

Note 1:for transformers with rated capacity of 500kVA and below, the load loss values above the diagonal line in the table are applicable to the Dyn11 or Yzn11 coupling group, and the load loss values below the diagonal line are applicable to the Yyn0 coupling group.

Note 2:when the average annual load rate of the transformer is between 35% and 40%, the maximum operating eficiency can be obtained by using the loss value in the table.

Overall and mounting dimensions(mm)



Note:The dimensions and weights provided are only for reference in design and selection. The final size and weight are subject to our product drawings.

10KV Oil-immersed Transformer

S□-M Series Oil-immersed Fully Sealed

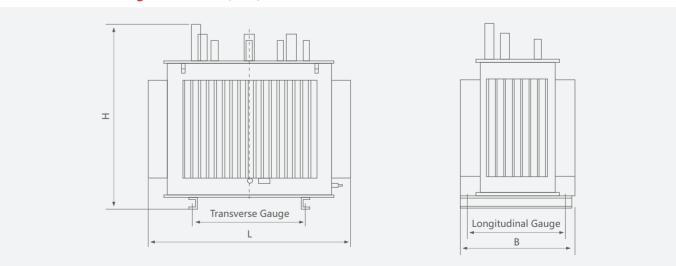
S11-M 30~2500 /10KV technical data

Rated		ge combir	ation	Connection No	NI- Id	o-load Load	No-load	Short circuit	Di	imensio	Total			
capacity (KVA)	High voltage (KV)	Tapping range	Low voltage (KV)	group label	loss(W) loss(W)	current (%)	impedance (%)	L	W	Н	weight (kg)			
30					100	630/600	1.5		690	510	920	275		
50					130	30 910/870 1.3		730	510	960	340			
63				150 1090/1040 1.2		750	550	1000	385					
80					180	1310/1250	1.2		790	620	1020	450		
100				D 11	200	1580/1500	1.1		790	700	1040	520		
125				Dyn11	240	1890/1800	1.1		840	800	1070	625		
160	6			Yyn0 Yzn11	280	2310/2200	1.0		1070	670	1130	695		
200	6.3	±5 ±2×2.5		121111	340	2730/2600	1.0		1140	750	1140	795		
250					400	3200/3050	0.9		1200	800	1190	955		
315	6.6		0.4		480	3830/3650	0.9		1300	860	1210	1085		
400	10.5				570	4520/4300	0.8		1380	900	1240	1290		
500	11.5				680	5410/5100	0.8		1450	950	1300	1590		
630	11	11	11				810	6200	0.6		1500	970	1360	1850
800					980	7500	0.6		1660	1140	1400	2210		
1000		1				Dyn11	1150	10300	0.6	4.5	1690	1190	1530	2570
1250				Yyn0	1360	12000	0.5		1760	1230	1600	3115		
1600					1640	14500	0.5		1800	1250	1660	3520		
2000					1940	18300	0.4	5.0	1930	1360	1490	4060		
2500					2290	21200	0.4	5.0	2080	1360	1570	5105		

Note 1:for transformers with rated capacity of 500kVA and below, the load loss values above the diagonal line in the table are applicable to the Dyn11 or Yzn11 coupling group, and the load loss values below the diagonal line are applicable to the Yyn0 coupling group.

Note 2:when the average annual load rate of the transformer is between 35% and 40%, the maximum operating eficiency can be obtained by using the loss value in the table.

Overall and mounting dimensions(mm)



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S□-M Series Oil-immersed Fully Sealed

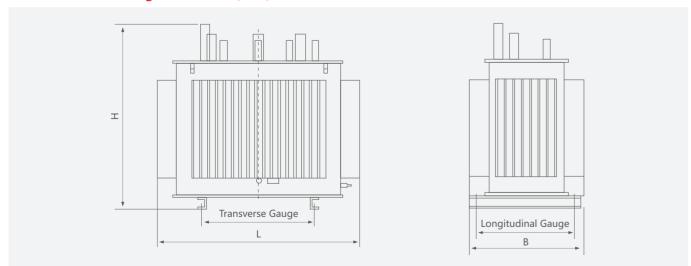
S13-M 30~2500 /10KV technical data

Rated		Voltage combination			NI- IJ	Load	No-load	Short circuit	Dimensions			Total			
capacity (KVA)	High voltage (KV)	Tapping range	Low voltage (KV)	Connection group label		loss(W)	current (%)	impedance (%)	L	W	н	weight (kg)			
30					80	630/600	1.5	4.0	685	490	860	260			
50					100	910/870	1.3		725	520	955	365			
63					110	1090/1040	1.2		750	535	970	415			
80]				130	1310/1250	1.2		770	565	985	465			
100					150	1580/1500	1.2		800	595	1000	545			
125				Dyn11	170	1890/1800	1.1		815	670	1010	585			
160				Yyn0 - Yzn11 -	200	2310/2200	1.1		1015	645	1055	695			
200	6	±5 ±2×2.5			240	2730/2600	1.0		1020	650	1115	810			
250	6.3				290	3200/3050	1.0		1140	730	1120	930			
315	10		0.4		340	3830/3650	0.9		1195	785	1175	1075			
400	10.5				410	4520/4300	0.9		1265	855	1195	1255			
500					480	5410/5100	0.8		1325	915	1240	1435			
630	11	''	11				570	6200	0.8		1465	960	1295	1880	
800					700	7500	0.6		1515	995	1340	2145			
1000				D 44	830	10300	0.6	4.5	1605	1095	1460	2455			
1250				Dyn11 970 12000 0.5		1685	1145	1485	2840						
1600							Yyn0	1170	14500	0.5		1775	1225	1580	3310
2000					1550	18300	0.4	F 0	1855	1265	1600	3960			
2500			1				1830	21200	0.4	5.0	1885	1305	1780	4980	

Note 1:for transformers with rated capacity of 500kVA and below, the load loss values above the diagonal line in the table are applicable to the Dyn11 or Yzn11 coupling group, and the load loss values below the diagonal line are applicable to the Yyn0 coupling group.

Note 2:when the average annual load rate of the transformer is between 35% and 40%, the maximum operating eficiency can be obtained by using the loss value in the table.

Overall and mounting dimensions(mm)



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10KV Oil-immersed Transformer

S□-M Series Oil-immersed Fully Sealed

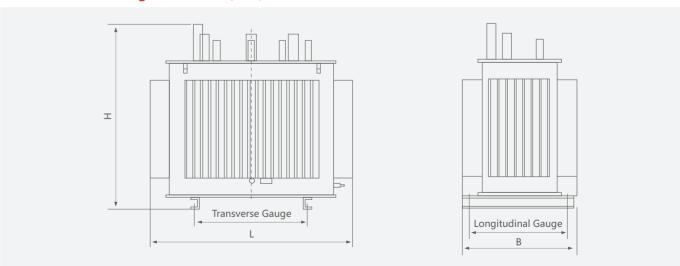
S14-M 30~2500 /10KV technical data

Rated		ge combin	ation	Connection	Na land I ood		No-load	Short circuit	Dimensions			Total				
capacity (KVA)	High voltage (KV)	Tapping range	Low voltage (KV)	Connection group label	loss(W)	Load loss(W)	current (%)	impedance (%)	L	W	Н	weight (kg)				
30					80	505/480	1.5		785	710	880	370				
50					100	730/695	1.3		800	730	940	480				
63					110	870/830	70/830 1.2		815	720	970	535				
80					130	1050/1000	1.2		830	740	990	580				
100				D 11		875	790	1010	705							
125				Dyn11	170	1510/1440	1.1	4.0	875	770	1050	775				
160	6			Yyn0	200	1850/1760	1.0		935	820	1140	975				
200	6.3	3 ±5 0 ±2×2.5			240	2180/2080	1.0		995	870	1140	1140				
250					290	2560/2440	0.9		995	900	1180	1240				
315	6.6		0.4		340	3060/2920	0.9		1030	880	1250	1425				
400	10.5				410	3610/3440	0.8		1075	910	1270	1635				
500	10.5				480	4330/4120	0.8		1120	930	1320	1950				
630			11	''] ''				570	4960	0.6		1165	950	1350	2150
800							700	6000	0.6		1210	1050	1390	2515		
1000						Dyn11	830	8240	0.6	4.5	1520	1020	1450	2635		
1250				Yyn0	970	9600	0.5		1630	1090	1540	3210				
1600						,,,,,	1170	11600	0.5] [1680	1150	1600	3905		
2000					1550	14600	0.4	5.0	1890	1300	1600	4130				
2500					1830	16900	0.4	3.0	1990	1360	1700	5250				

Note 1:for transformers with rated capacity of 500kVA and below, the load loss values above the diagonal line in the table are applicable to the Dyn11 or Yzn11 coupling group, and the load loss values below the diagonal line are applicable to the Yyn0 coupling group.

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Overall and mounting dimensions(mm)



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