
СИЛОВЫЕ ТРАНСФОРМАТОРЫ

Распределительные трансформаторы и комплектные подстанции

Каталог оборудования 2026

- Масляные распределительные трансформаторы
- Трансформаторы 10 кВ и 35 кВ
- Сухие трансформаторы с эпоксидной изоляцией
- Комплектные трансформаторные подстанции

Технические характеристики, модели, таблицы и изображения оборудования сохранены из исходного каталога производителя.

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СИЛОВЫЕ ТРАНСФОРМАТОРЫ

Power Transformers

Power Transformer

Always for your safety



Oil Immersed Power Transformer



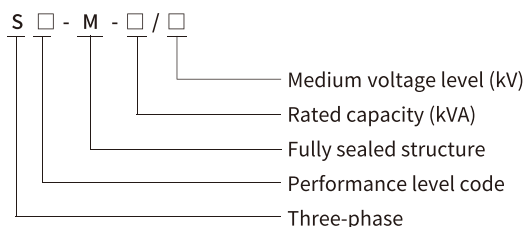
Product Introduction

The S□-M series three-phase oil immersed transformer produced by the company adopts full oil filled and sealed corrugated oil tank. The oil tank shell adapts to the oil expansion performance with its own elasticity and meets the heat dissipation requirements.

The body adopts a new insulation structure to improve the short-circuit resistance; the core is made of high-quality cold-rolled silicon steel sheet; the medium voltage and low voltage windings are made of oxygen free copper wires and adopt multi-layer cylindrical structure; all fasteners adopt special anti-loosening treatment.

The product has the characteristics of high efficiency and low loss, can save a lot of power consumption and operating costs, and has significant social benefits. It has been widely used in power plants, substations, industrial and mining enterprises, ports, airports and other places.

Model Meaning



Standards

GB/T 1094.1-2013 Power transformers - Part 1: General

GB/T 1094.2-2013 Power transformers - Part 2: Temperature rise for liquid-immersed transformers

GB/T 1094.3-2017 Power transformers - Part 3: Insulation levels, dielectric tests and external clearances in air

GB/T 1094.5-2008 Power transformers - Part 5: Ability to withstand short circuit

GB/T 1094.10-2003 Power transformers--Part 10: Determination of sound levels

IEC60076-1:2011 Power transformers - Part 1: General

IEC60076-2:2011 Power transformers - Part 2: Temperature rise for liquid-immersed transformers

IEC 60076-3:2013+AMD1:2018 Power transformers - Part 3: Insulation levels, dielectric tests and external clearances in air

IEC 60076-5:2006 Power transformers - Part 5: Ability to withstand short circuit

IEC 60076-10:2016 Power transformers - Part 10: Determination of sound levels

Oil Immersed Power Transformer

Normal Environment Conditions

1. Ambient Temperature: No more than +40°C
No less than -25°C
The monthly average temperature is no more than +30°C
The yearly average temperature is no more than +20°C
2. Altitude: No more than 1000m.
3. The power supply voltage's wave is similar to sine wave.
4. Three-phase power supply voltage is approximately symmetrical.
5. The total harmonic content of load current shall not exceed 5% of rated current;
6. Installation Site: Indoor or outdoor.

Product Characteristic

1. The iron core is made of silicon steel sheet with high quality, high performance and high magnetic conductivity, with low no-load loss.
2. Medium voltage winding adopts layer structure. Low voltage winding 500KVA and below is layer type, 630kVA and above products adopt new spiral type. High mechanical strength, balanced ampere turn distribution, strong short circuit resistance.
3. The positioning structure is added to the body to avoid displacement during transportation. At the same time, all fasteners are equipped with fastening nuts to ensure that the fasteners are not loose during long-term operation.
4. This product is a fully sealed structure. The vacuum oil filling process is adopted when the transformer is packaged, which completely removes the moisture in 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. The product is equipped with pressure relief valve, signal thermometer, gas relay and so on to ensure the safe operation of the transformer.
5. Corrugated oil tank is adopted. This kind of oil tank has the advantages of simple process, high mechanical strength, good welding effect and no leakage. And because of the strong fluidity of the oil, the heat dissipation capacity of the product is improved.
6. The product is beautiful in appearance, small in volume and small in floor area. It is an ideal maintenance free product.

Oil Immersed Power Transformer

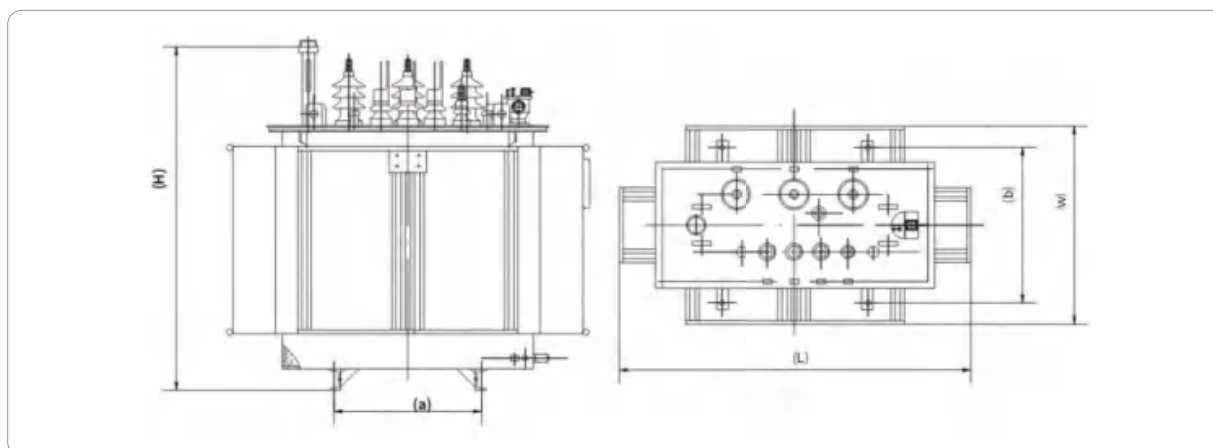
S11-M Technical Parameter

Rated capacity (kVA)	Voltage combination			Connected group label	No-load dissipation (w)	Load dissipation (W)75°C	No-load current (%)	Impedance voltage (%)	Exterior size(LxWxH) Install 4-Φ18 (mm)			Total Weight (kg)
	Medium voltage (kV)	Tapping range	Low voltage (kV)									
30	6 6.3 6.6 10 10.5 11 15 or other	±5 ±2x2.5	0.38 0.4 0.415 0.44	Dyn11 Yyn0 Yzn11	100	630/600	1.5	4.0	690	510	920	275
50					130	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					200	1580/1500	1.1		790	700	1040	520
125					240	1890/1800	1.1		840	800	1070	625
160					280	2310/2200	1.0		1070	670	1130	695
200					340	2730/2600	1.0		1140	750	1140	795
250					400	3200/3050	0.9		1200	800	1190	955
315					480	3830/3650	0.9		1300	860	1210	1085
400					570	4520/4300	0.8		1380	900	1240	1290
500					680	5410/5100	0.8		1450	950	1300	1590
630				Dyn11 Yyn0	810	6200	0.6	4.5	1500	970	1360	1850
800					980	7500	0.6		1660	1140	1400	2210
1000					1150	10300	0.6		1690	1190	1530	2570
1250					1360	12000	0.5		1760	1230	1600	3115
1600					1640	14500	0.5	5	1800	1250	1660	3520
2000					1940	18300	0.4		1930	1360	1490	4060
2500					2290	21200	0.4		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 efficiency can be obtained by using the loss value in the table.

Dimensions



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

Oil Immersed Power Transformer

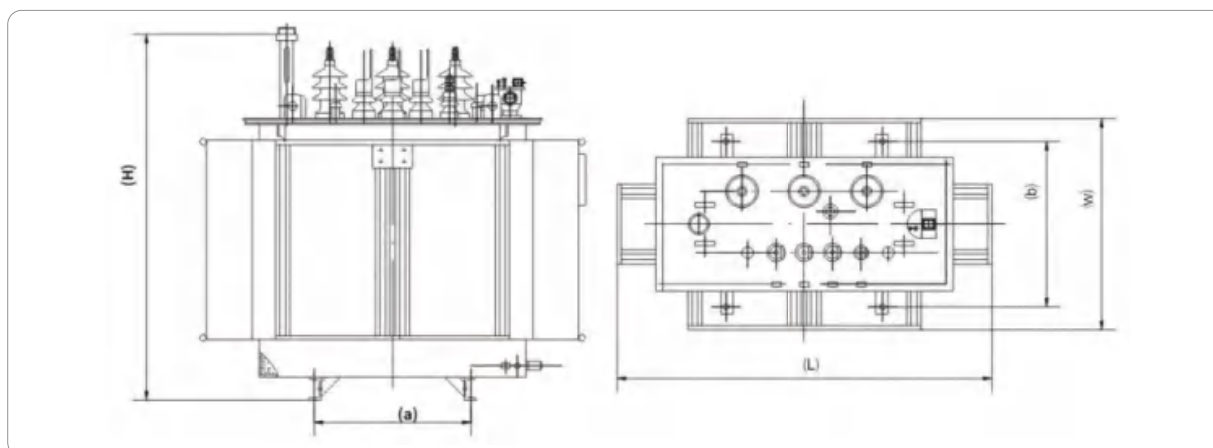
S13-M Technical Parameter

Rated capacity (kVA)	Voltage combination			Connected group label	No-load dissipation (w)	Load dissipation (W)145°C	No-load current (%)	Impedance voltage (%)	Exterior size(LxWxH) Install 4-Φ18 (mm)			Total Weight (kg)
	Medium voltage (kV)	Tapping range	Low voltage (kV)									
30	6 6.3 6.6 10 10.5 11 15 or other	±5 ±2x2.5	0.38 0.4 0.415 0.44	Dyn11 Yyn0 Yzn11	80	630/600	1.5	4.0	695	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					170	1890/1800	1.1		815	670	1010	585
160					200	2310/2200	1.1		1015	645	1055	695
200					240	2730/2600	1.0		1020	650	1115	810
250					290	3200/3050	1.0		1140	730	1120	930
315					340	3830/3650	0.9		1195	785	1175	1075
400					410	4520/4300	0.9		1265	855	1195	1255
500					480	5410/5100	0.8		1325	915	1240	1435
630				Dyn11 Yyn0	570	6200	0.8	4.5	1465	960	1295	1880
800					700	7500	0.6		1515	995	1340	2145
1000					830	10300	0.6		1605	1095	1460	2455
1250					970	12000	0.5		1685	1145	1485	2840
1600					1170	14500	0.5	5.0	1775	1225	1580	3310
2000					1550	18300	0.4		1855	1265	1600	3960
2500					1830	21200	0.4		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 efficiency can be obtained by using the loss value in the table.

Dimensions



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

Oil Immersed Power Transformer

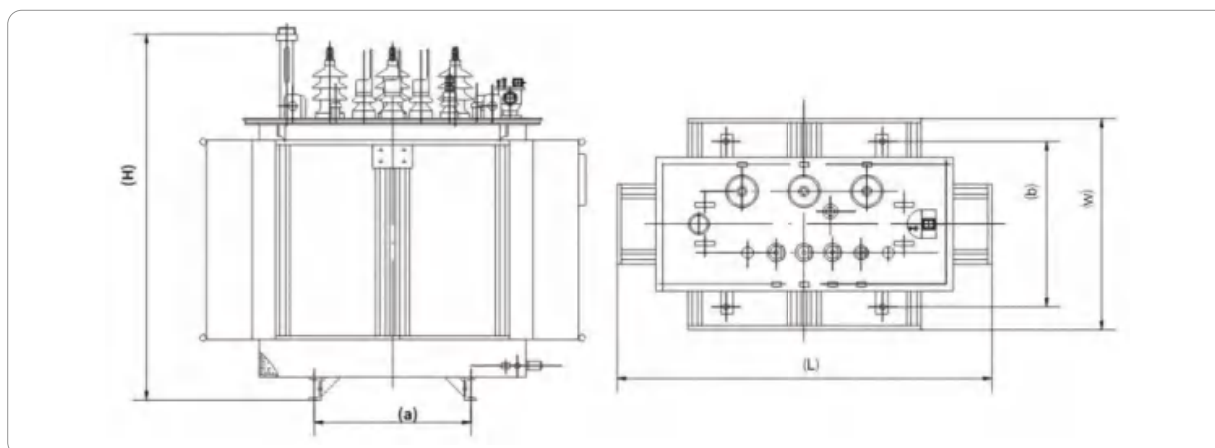
S14-M Technical Parameter

Rated capacity (kVA)	Voltage combination			Connected group label	No-load dissipation (w)	Load dissipation (W)75°C	No-load current (%)	Impedance voltage (%)	Exterior size(LxWxH) Install 4-Φ18 (mm)	Total Weight (kg)
	Medium voltage (kV)	Tapping range	Low voltage (kV)							
30	6 6.3 6.6 10 10.5 11 15 or other	±5 ±2x2.5	0.38 0.4 0.415 0.44	Dyn11 Yyn0 Yzn11	80	505/480	1.5	4.0	785×710×880	370
50					100	730/695	1.3		800×730×940	480
63					110	870/830	1.2		815×720×970	535
80					130	1050/1000	1.2		830×740×990	580
100					150	1260/1200	1.1		875×790×1010	705
125					170	1510/1440	1.1		875×770×1050	775
160					200	1850/1760	1.0		935×820×1140	975
200					240	2180/2080	1.0		995×870×1140	1140
250					290	2560/2440	0.9		995×900×1180	1240
315					340	3060/2920	0.9		1030×880×1250	1425
400					410	3610/3440	0.8		1075×910×1270	1635
500					480	4330/4120	0.8		1120×930×1320	1950
630				Dyn11 Yyn0	570	4960	0.6	4.5	1165×950×1350	2150
800					700	6000	0.6		1210×1050×1390	2515
1000					830	8240	0.6		1520×1020×1450	2635
1250					970	9600	0.5		1630×1090×1540	3210
1600					1170	11600	0.5	5.0	1680×1150×1600	3905
2000					1550	14600	0.4		1890×1300×1600	4130
2500					1830	16900	0.4		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.

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

Dimensions



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

S□-35KV

Oil Immersed Power Transformer

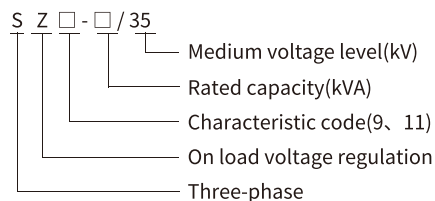


Product Introduction

S □ - 35kV series oil immersed transformer produced by the company is suitable for three-phase AC 50 / 60Hz, rated voltage 35kV distribution grid, and plays an important role in medium voltage transmission and low voltage power supply. Products with high efficiency, low loss characteristics, can save a lot of power consumption and operating costs, social benefits, has been widely used in power plants, substations, industrial and mining enterprises, ports, airports and other places.

With on load tap changer, the product can realize the function of manual or automatic voltage regulation without power failure, which is conducive to stabilizing the voltage of power grid in each load center and improving the quality of power supply.

Model Meaning



Standards

GB/T 1094.1-2013 Power transformers - Part 1: General

GB/T 1094.2-2013 Power transformers - Part 2: Temperature rise for liquid-immersed transformers

GB/T 1094.3-2017 Power transformers - Part 3: Insulation levels, dielectric tests and external clearances in air

GB/T 1094.5-2008 Power transformers - Part 5: Ability to withstand short circuit

GB/T 1094.10-2003 Power transformers--Part 10: Determination of sound levels

IEC60076-1:2011 Power transformers - Part 1: General

IEC60076-2:2011 Power transformers - Part 2: Temperature rise for liquid-immersed transformers

IEC 60076-3:2013+AMD1:2018 Power transformers - Part 3: Insulation levels, dielectric tests and external clearances in air

IEC 60076-5:2006 Power transformers - Part 5: Ability to withstand short circuit

IEC 60076-10:2016 Power transformers - Part 10: Determination of sound levels

Oil Immersed Power Transformer

Normal Environment Conditions

- 1.Ambient Temperature: No more than +40°C
No less than -25°C
The monthly average temperature is no more than +30°C
The yearly average temperature is no more than +20°C
- 2.Altitude: No more than 1000m.
- 3.The power supply voltage's wave is similar to sine wave.
- 4.Three-phase power supply voltage is approximately symmetrical.
- 5.The total harmonic content of load current shall not exceed 5% of rated current;
- 6.Installation Site: Indoor or outdoor.

Product Characteristic

1. The core is made of cold-rolled silicon steel sheet with high magnetic conductivity and grain orientation, with low no-load loss.
2. The three-phase winding is concentric coil, corrugated oil duct, no paint dipping process and tight band binding are adopted. High mechanical strength, balanced ampere turn distribution, strong short circuit resistance.
3. The positioning structure is added to the body to avoid displacement during transportation. At the same time, all fasteners are equipped with fastening nuts to ensure that the fasteners are not loose during long-term operation.
4. This product is a fully sealed structure. The vacuum oil filling process is adopted when the transformer is packaged, which completely removes the moisture in 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. All transformers of capacity section are equipped with pressure relief valve, and gas relay with alarm and trip function can be installed according to user's demand, which ensures the safe operation of transformer.
5. Corrugated oil tank is adopted. This kind of oil tank has the advantages of simple process, high mechanical strength, good welding effect and no leakage. And because of the strong fluidity of the oil, the heat dissipation capacity of the product is improved.
6. The product is beautiful in appearance, small in volume and small in floor area. It is an ideal maintenance free product.

S□-35KV

Oil Immersed Power Transformer

S □ -35kV Technical Parameter

S13-35kV Technical parameters of non excitation voltage regulating transformer

Rated capacity (kVA)	Voltage combination			Connected group label	No-load dissipation (w)	Load dissipation (W)145°C	No-load current (%)	Impedance voltage (%)
	Medium voltage (kV)	Tapping range	Low voltage (kV)					
50	33 35 38.5 or other	$\pm 2 \times 2.5$ ± 5	0.38 0.4 0.415 0.44	Dyn11 Yyn0	160	1200/1140	1.3	6.5
100					230	2010/1910	1.1	
125					270	2370/2260	1.1	
160					280	2820/2680	1.0	
200					310	3320/3160	1.0	
250					400	3950/3760	0.95	
315					480	4750/4530	0.95	
400					580	5740/5470	0.85	
500					680	6910/6580	0.85	
630					830	7860	0.65	
800					980	9400	0.65	
1000					1150	11500	0.65	
1250					1400	13900	0.60	
1600					1690	16600	0.60	
2000					1990	19700	0.55	
2500					2360	23200	0.55	

S□-35KV

Oil Immersed Power Transformer

S13-35kV Technical parameters of non excitation voltage regulating transformer

Rated capacity (kVA)	Voltage combination			Connected group label	No-load dissipation (w)	Load dissipation (W)145°C	No-load current (%)	Impedance voltage (%)
	Medium voltage (kV)	Tapping range	Low voltage (kV)					
630	35 or other	$\pm 2 \times 2.5$ ± 5	3.15 6.3 10.5 15 or other	Yd11	830	7860	0.65	6.5
800					980	9400	0.65	
1000					1150	11500	0.65	
1250					1400	13900	0.55	
1600					1690	16600	0.45	
2000					2170	18300	0.45	
2500					2560	19600	0.45	
3150	35~38.5 or other	$\pm 2 \times 2.5$ ± 5	3.15 6.3 10.5 15 or other	Yd11	3040	23000	0.45	7.0
4000					3610	27300	0.45	
5000					4320	31300	0.45	
6300					5240	35000	0.45	
8000	35~38.5 or other	$\pm 2 \times 2.5$	3.15 3.3 6.3 6.6 10.5 15 or other	YNd11	7200	38100	0.35	8.0
10000					8700	45300	0.35	
12500					10000	53800	0.3	
16000					12100	65800	0.3	
20000					14400	79500	0.3	
25000					17000	94000	0.25	10.0
31500					20200	112000	0.25	

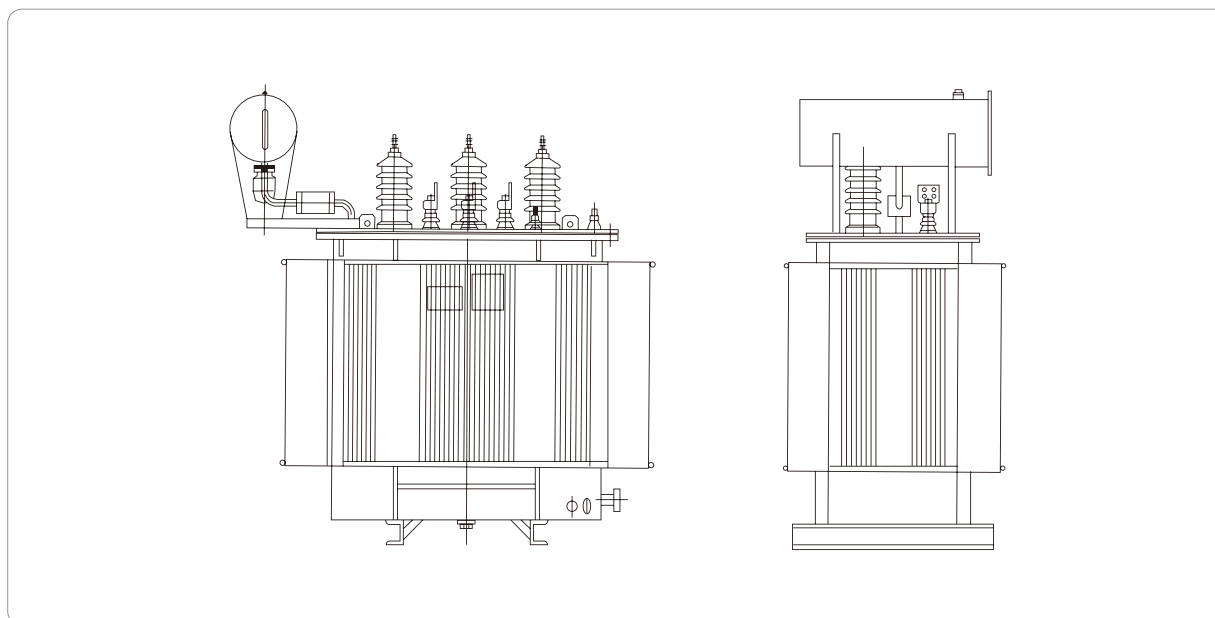
S□-35KV

Oil Immersed Power Transformer

S13-35kV Technical parameters of on load tap changer

Rated capacity (kVA)	Voltage combination			Connected group label	No-load dissipation (w)	Load dissipation (W)145℃	No-load current (%)	Impedance voltage (%)
	Medium voltage (kV)	Tapping range	Low voltage (kV)					
2000	35	±3×2.5	6.3 10.5	Yd11	2300	19200	0.50	6.5
2500					2720	20600	0.50	
3150	35~38.5 or other	±3×2.5	6.3 10.5		3230	24700	0.50	7.0
4000					3870	29100	0.50	
5000					4640	34200	0.50	
6300					5630	36700	0.50	
8000	35—38.5	±3×2.5	6.3 6.6 10.5 15 or other	YNd11	7870	40600	0.40	8.0
10000					9280	48000	0.40	
12500					1090	56800	0.35	
16000					1310	70300	0.35	
20000					1550	82100	0.35	
25000					1830	97800	0.30	
31500				2180	116000	0.30		

Outline Drawing



Epoxy Resin Dry Type Transformer

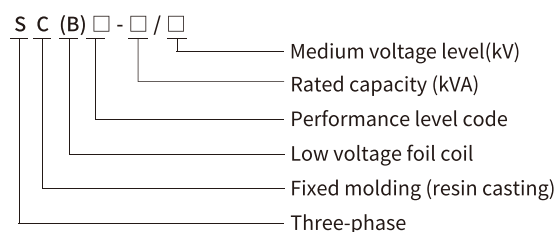


Product Introduction

SC(B) series epoxy resin dry-type transformer is flame-retardant, fire-proof, explosion-proof, maintenance free, pollution-free, small in size, because of the winding is encapsulated, and can be directly installed in the load center. At the same time, the scientific and reasonable design and casting process make the product have less partial discharge, lower noise and stronger heat dissipation capacity. Under the condition of forced air cooling, it can operate for a long time under 125% rated load. It is equipped with intelligent temperature controller, which has the functions of fault alarm, overtemperature alarm, overtemperature trip and black box. It is connected with the computer through RS485 serial interface and can be monitored centrally and control.

Because of the above characteristics, the product is widely used in power transmission system, such as hotels, restaurants, airports, high-rise buildings, commercial centers, residential areas and other important places, as well as subway, smelter, ship, offshore drilling and platform and other places with bad environment.

Model Meaning



Standards

- GB/T 1094.1-2013 Power transformers - Part 1: General
- GB/T 1094.11-2007 Power transformers - Part 11: Dry-type transformers
- GB/T 10228-2015 Specification and technical requirements for dry-type power transformers
- IEC60076-1:2011 Power transformers - Part 1: General
- IEC60076-11:2018 Power transformers - Part 11: Dry-type transformers

Epoxy Resin Dry Type Transformer

Normal Environment Conditions

1. Ambient Temperature: No more than +40°C
No less than -25°C
The monthly average temperature is no more than +30°C
The yearly average temperature is no more than +20°C
2. Altitude: No more than 1000m.
3. The power supply voltage's wave is similar to sine wave.
4. Three-phase power supply voltage is approximately symmetrical.
5. The relative humidity of the surrounding air should be less than 93%. There should be no water droplets on the coil surface.
6. Installation Site: Indoor or outdoor.

Product Features

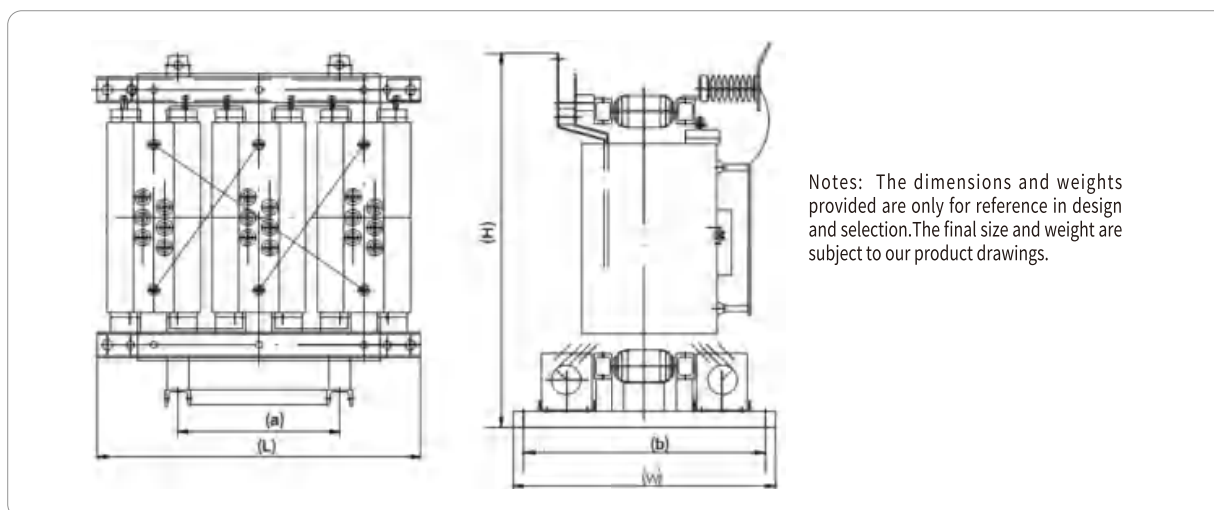
1. The medium voltage winding is made of enameled copper wire or film wrapped copper wire, and the low voltage winding is made of copper foil. The medium voltage winding is filled with glass fiber felt. In the vacuum state, the epoxy resin without filler is used for pouring, which forms a solid whole after curing, with high mechanical strength, small partial discharge and high reliability.
2. Flame retardant, explosion-proof, no environmental pollution, environmental protection. It can be installed in the load center.
3. The core material is made of high quality cold-rolled oriented silicon steel sheet with full inclined seam laminated structure.
4. The coil does not absorb moisture, and the core and clamp are treated by special process, which can operate in high relative humidity and other harsh environment.
Intermittent operation without dehumidification treatment.
5. High resistance to short circuit, lightning impulse and overload.
6. Thin resin insulation layer inside and outside the coil, good heat dissipation performance.
7. Low loss, good power saving effect, economical operation and maintenance free.
8. Small volume, light weight, small floor space and convenient installation.

Epoxy Resin Dry Type Transformer

SCB11-30~2500/10kV Technical Parameter

Rated capacity (kVA)	Voltage combination			connected group label	No-load dissipation (w)	Load dissipation (W)			No-load current (%)	Impedance voltage (%)	Exterior size(LxWxH) Install 4-Φ18 (mm)	Total Weight (kg)				
	Medium voltage (kV)	Tapping range	Low voltage (kV)			130°C (B)	155°C (F)	180°C (H)								
						100°C	120°C	145°C								
30	6 6.3 6.6 10 10.5 11 13.8 15	±2.5 ±5	0.4 or other	Dyn11	170	670	710	760	2.3	4.0	955×750×840	270				
50					240	940	1000	1070	2.2		970×750×860	340				
80					330	1290	1380	1480	1.7		1015×750×925	460				
100					360	1480	1570	1690	1.7		1030×750×960	530				
125					420	1740	1850	1980	1.5		1060×750×1000	605				
160					480	2000	2130	2280	1.5		1090×900×1045	730				
200		±2×2.5 ±5						550	2370	2530	2710	1.3	6.0	1105×900×1080	825	
250								640	2590	2760	2960	1.3		1180×900×1125	1010	
315								790	3270	3470	3730	1.1		1225×900×1140	1165	
400								880	3750	3990	4280	1.1		1330×900×1195	1490	
500								1040	4590	4880	5230	1.1		1345×900×1255	1650	
630								1200	5530	5880	6290	0.9		1540×1150×1175	1915	
630								1170	5610	5960	6400	0.9		8.0	1540×1150×1175	1915
800								1360	6550	6960	7460	0.9			1600×1150×1220	2305
1000								1590	7650	8130	8760	0.9			1645×1150×1285	2690
1250								1880	9100	9690	10300	0.9			1705×1150×1345	3225
1600								2200	11000	11700	12500	0.9			1765×1150×1405	3805
2000								2740	13600	14400	15500	0.7			1840×1150×1475	4435
2500								3240	16100	17100	18400	0.7			1900×1150×1560	5300
1600								2200	12200	12900	13900	0.9				1765×1150×1405
2000	2740	15000	15900	17100	0.7	1840×1150×1475	4435									
2500	3240	17700	18800	20200	0.7	1900×1150×1560	5300									

Dimensions

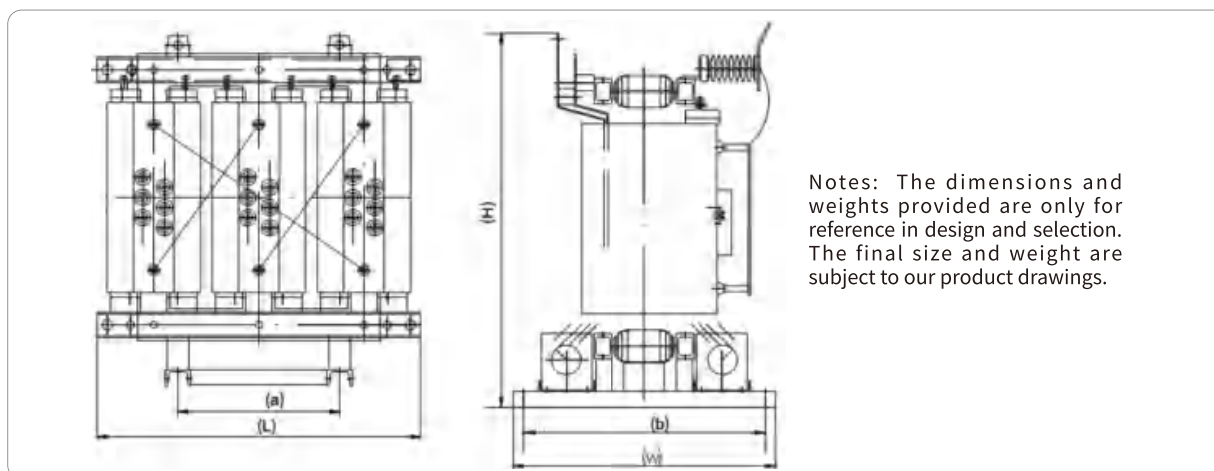


Epoxy Resin Dry Type Transformer

SCB12-30~2500/10kV Technical Parameter

Rated capacity (kVA)	Voltage combination			connected group label	No-load dissipation (w)	Load dissipation (W)			No-load current (%)	Impedance voltage (%)	Exterior size(LxWxH) Install 4-Φ18 (mm)	Total Weight (kg)
	Medium voltage (kV)	Tapping range	Low voltage (kV)			130°C (B)	155°C (F)	180°C (H)				
						100°C	120°C	145°C				
30	6 6.3 6.6 10 10.5 11 13.8 15	±2.5 ±5	0.4 or other	Dyn11	150	670	710	760	2.3	4.0	955×750×840	270
50					215	940	1000	1070	2.2		970×750×860	340
80					295	1290	1380	1480	1.7		1015×750×925	460
100					320	1480	1570	1690	1.7		1030×750×960	530
125					375	1740	1850	1980	1.5		1060×750×1000	605
160					430	2000	2130	2280	1.5		1090×900×1045	730
200					495	2370	2530	2710	1.3		1105×900×1080	825
250		575			2590	2760	2960	1.3	1180×900×1125	1010		
315		705			3270	3470	3730	1.1	1225×900×1140	1165		
400		785			3750	3990	4280	1.1	1330×900×1195	1490		
500		930			4590	4880	5230	1.1	1345×900×1255	1650		
630		1070			5530	5880	6290	0.9	1540×1150×1175	1915		
630		1040			5610	5960	6400	0.9	6.0	1540×1150×1175	1915	
800		1210			6550	6960	7460	0.9		1600×1150×1220	2305	
1000		1410			7650	8130	8760	0.9		1645×1150×1285	2690	
1250		1670			9100	9690	10300	0.9		1705×1150×1345	3225	
1600		1960			11000	11700	12500	0.9		1765×1150×1405	3805	
2000		2440			13600	14400	15500	0.7		1840×1150×1475	4435	
2500		2880			16100	17100	18400	0.7		1900×1150×1560	5300	
1600		1960			12200	12900	13900	0.9	8.0	1765×1150×1405	3805	
2000		2440			15000	15900	17100	0.7		1840×1150×1475	4435	
2500		2880			17700	18800	20200	0.7		1900×1150×1560	5300	

Dimensions

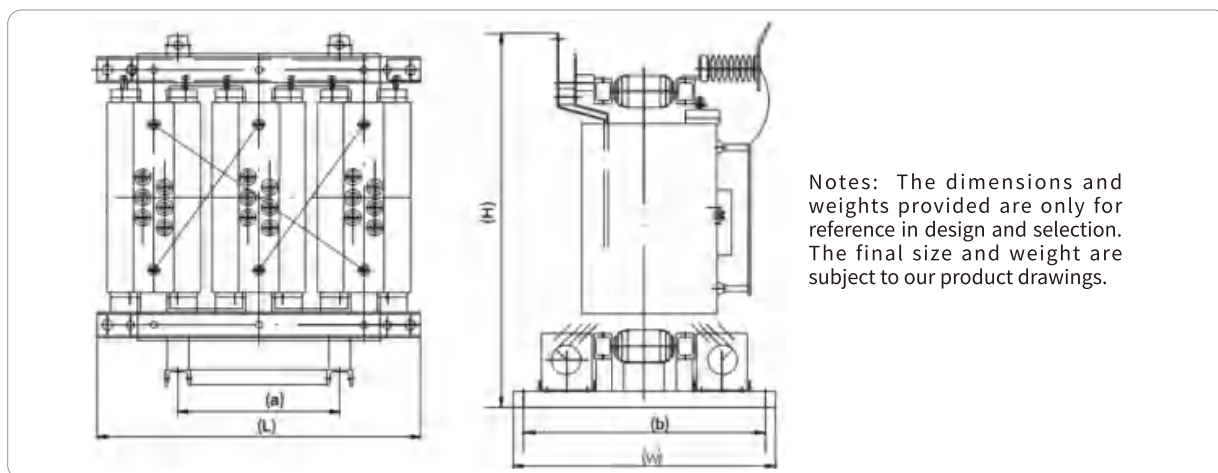


Epoxy Resin Dry Type Transformer

SCB13-30~2500/10kV Technical Parameter

Rated capacity (kVA)	Voltage combination			Connected group label	No-load dissipation (w)	Load dissipation (W)			No-load current (%)	(%) Impedance voltage	Exterior size(LxWxH) Install 4-Φ18 (mm)	Total Weight (kg)
	Medium voltage (kV)	Tapping range	Low voltage (kV)			130°C (B)	155°C (F)	180°C (H)				
						100°C	120°C	145°C				
30	6 6.3 6.6 10 10.5 11 13.8 15	±2.5 ±5	0.4 or other	Dyn11	135	605	640	685	2.3	4.0	955×750×840	270
50					195	845	900	965	2.2		970×750×860	340
80					265	1160	1240	1330	1.7		1015×750×925	460
100					290	1330	1410	1520	1.7		1060×750×960	560
125					340	1560	1660	1780	1.5		1075×750×1000	630
160					385	1800	1910	2050	1.5		1105×900×1045	770
200		±2×2.5 ±5			445	2130	2270	2440	1.3	4.0	1120×900×1105	875
250					515	2330	2480	2660	1.3		1195×900×1125	1055
315					635	2940	3120	3350	1.1		1555×1150×1175	1190
400					705	3370	3590	3850	1.1		1225×900×1140	1500
500					835	4130	4390	4700	1.1		1315×900×1190	1700
630					965	4970	5290	5660	0.9		1345×900×1265	1985
630					935	5050	5360	5760	0.9	6.0	1555×1150×1175	1985
800					1090	5890	6260	6710	0.9		1600×1150×1220	2360
1000					1270	6880	7310	7880	0.9		1660×1150×1285	2775
1250					1500	8190	8720	9330	0.9		1720×1150×1350	3310
1600					1760	9940	10500	11300	0.9		1780×1150×1405	3940
2000					2190	12200	13000	14000	0.7		1840×1150×1475	4595
2500					2590	14500	15400	16600	0.7	8.0	1900×1150×1565	5495
1600					1760	11000	11600	12500	0.9		1780×1150×1405	3940
2000					2190	13500	14300	15400	0.7		1840×1150×1475	4595
2500					2590	15900	17000	18200	0.7		1900×1150×1565	5495

Dimensions



КОМПЛЕКТНЫЕ ПОДСТАНЦИИ

Prefabricated Substations

Prefabricated Substations

Always for your safety



YB6-12/0.4□

Prefabricated substation(Box-type)



Product Summary

YB6 prefabricated substation, as an important power supply unit in cable distribution network, is a complete set prefabricated product integrated by medium voltage control, protection, transformation and distribution equipment, which is widely used in urban and rural distribution network.

The medium voltage load switch and medium voltage fuse are placed in the transformer oil, which have two structural forms: share the same container with the transformer or separate container. The oil tank is fully sealed with oil temperature meter, oil level meter, pressure gauge, pressure release valve, oil discharge valve and other components to monitor the operation of the transformer. The product is divided into ring network type, terminal type and power supply side. The HV side adopts the pluggable fuse, and the fuse's fuse does not affect the performance of the transformer oil. According to the different low voltage feeder scheme, products are divided into standard, enhanced and comprehensive three kinds of shell form, users and design units in the selection, it is more flexible and more economical.

Environmental Conditions

1. Altitude: No more than 1000m.
2. Ambient Temperature: No more than +40°C and no less than -45°C.
3. Relative Humidity: the average daily value is no more than 95%, the average monthly value is no more than 90%.
4. Earthquake proof Level: Horizontal Accelerations $\leq 0.3g$, Vertical Acceleration $\leq 0.15g$.
5. Installation Location: Well-ventilation, chemical corrosion and violent vibration for product installed place. Vertical slope of less than 3 degrees.



YB6-12/0.4□

Prefabricated substation(Box-type)

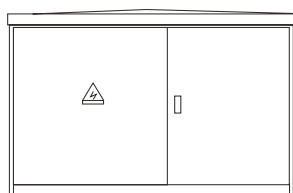
Product Features

- 1.Compact structure and small volume.It is only about 1/3 of EU type prefabricated substation with same capacity, which greatly reduce the floor space.
- 2.Fully sealed and insulated structure, which protects personal safety reliably.
- 3.The medium voltage connection can be used in the ring network, and also can be used in the terminal, the power supply mode is flexible and the reliability is high.
- 4.The transformer has excellent performance,with low loss, low noise, low temperature rise, strong overload ability and strong ability to resist short circuit impact.
- 5.To meet the requirements of all kinds of low voltage feed out, it can be selected according to the scheme and also can be designed by itself.
- 6.The cable joints can be plugged and unplugged with load and play the role of the disconnecting switch.

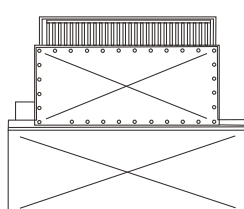
Technical Parameters

Content	Unit	H.T side	Transformer side	L.T side
Rated Capacity	kVA		50–1250	
Rated Voltage	kV	10	10/0.4	0.4
Rated Current	A	630	72/1800	2000
Rated Short circuit Breaking Current	kA	≥ 20		≥ 30
Rated Short Circuit Making Current	kA	50		
Rated Thermal Stability Current	kA/S	≥ 20/4		≥ 30/1
Power Frequency Withstand Voltage in 1 min	kV	Earth: 42 Fracture: 48	Oil: 35	2.0/2.5
Lightning Impulse Withstand Voltage	kV	75		
Degrees of Protection	IP	IP33D		
Noise Level	DB	≤ 55		

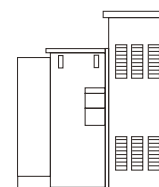
Schematic Diagram of Structure



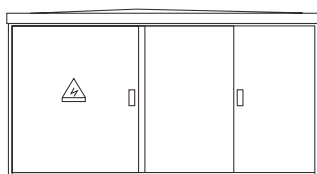
Standard/Comprehensive type orthographic view



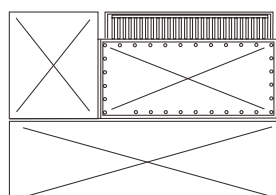
Standard/Enhanced type vertical view



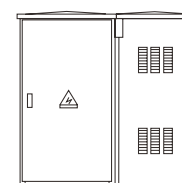
Standard/Enhanced type side view



Enhanced type orthographic view



Comprehensive type vertical view



Comprehensive type side view



YBM-12/0.4(F.R)/T-□

Prefabricated substation(EU-type)



Product Summary

YBM series prefabricated substation is a compact distribution device including medium switchgear, distribution transformer, LV switchgear, electric energy metrological device and reactive power compensator, all devices are packaged in one or several cubical units, which are wired by correct logic electrically schemes. It is suitable for three phase AC system with rated voltage of 10/0.4kV. It can be used to receive and distribute electric energy to factories, mines, oil fields, ports, airports, urban public buildings, highways, underground facilities and other places.

The prefabricated substation is featured technically by strong whole apparatus character, compact volume, good appearance, safe and reliable operating, easy maintenance, good appearance, convenient movement, deeply involved in load center, short construction period, and waste reduction and other advantages.

Environmental Conditions

1. Altitude: No more than 1000m.
2. Ambient Temperature: No more than +40°C and no less than -45°C.
3. Relative Humidity: the average daily value is no more than 95%, the average monthly value is no more than 90%.
4. Earthquake proof Level: Horizontal Accelerations $\leq 0.3g$, Vertical Acceleration $\leq 0.15g$.
5. Installation Location: Well-ventilation, chemical corrosion and violent vibration for product installed place. Vertical slope of less than 3 degrees.



YBM-12/0.4(F.R)/T-□

Prefabricated Substation(EU Type)

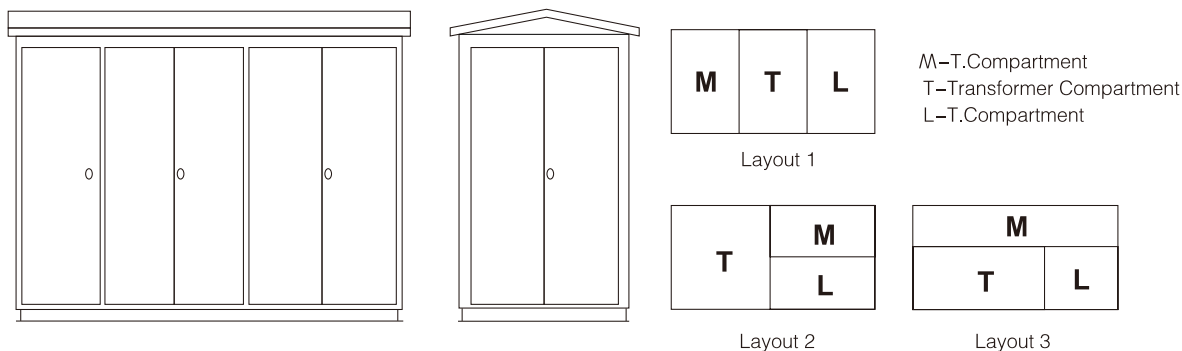
Product Features

- 1.The cabinet has two structures: one is skeleton welding, which weld skeleton with steel first, then pull riveting or weld panel. Another is skeleton assembly,the steel plate is formed by bending and forming the surface. Finally, the steel plate is assembled by bolt connection. The skeleton assembly is characterized by the expansion of the low voltage outgoing unit, which can be placed with no less than 6 panels of low voltage switchgear, with 8–12 loops. The prefabricated substation can be set up to operate the hallway and duty room.
- 2.It has good heat insulation and ventilation measures. A double layers structure is adopted in the cabinet, and the heat insulation material is also set in the interlayer, which effectively reduces the temperature rise caused by sunshine. The transformer compartment is arranged on the top of the side gate automatic ventilation fan, the upper part is provided with a shutter, can guarantee that the transformer can worksafe at full load in high temperature season.
- 3.Safe and reliable operation. The M.T side of the transformer substation selects RMU model XGN15–12 and SRM–12, could also adopt other types of metal clad switchgear, complete five–preventions interlock. Each door frame has good waterproof structure.
- 4.It is convenient to operate and maintain. Each compartment has automatic lighting device, transformer compartment has track and cart, convenient for transformer installation, maintenance and replacement. The M.T and L.T compartments adopt front wiring and front maintenance.
- 5.The appearance is beautiful and durable. The cabinet shell is made of high performance marine zinc rich epoxy primer and epoxy anticorrosive mortar, which has good anticorrosive property, and the surface color can be configured arbitrarily with the environment. All electrical installations are all galvanized, and it adopts a special anti blocking and anti rust universal lock.

Technical Parameters

Content	Unit	M.T side	Transformer side	L.T side
Rated Capacity	kVA		50–1250	
Rated Voltage	kV	10	10/0.4	0.4
Rated Current	A	400–600	72.2/1820	2000
Rated Short circuit Breaking Current	kA	≥20		≥30
Rated Short Circuit Making Current	kA	50		
Rated Thermal Stability Current	kA/S	≥20/4		≥30/1
Power Frequency Withstand Voltage in 1 min	kV	Earth: 42 Fracture: 48	Dry: 28 Oil: 35	2.0/2.5
Lightning Impulse Withstand Voltage	kV	Earth: 75 Fracture: 85		
Degrees of Protection	IP	IP33D		
Noise Level	DB	≤65(Dry Type Transformer) ≤55(Oil Immersed Transformer)		

Schematic Diagram of Structure



Prefabricated Switching Station



Product Summary

YKB series switching station is a compact complete set of power distribution device which combines medium and low voltage switchgear, control equipment and communication equipment in one or several boxes according to a certain wiring scheme. It is suitable for three-phase AC system with rated voltage of 35kV and below. As an extension of substation bus, it can be used in factories, mines, oil fields, ports, airports, urban public buildings, expressways, underground facilities and other places to redistribute its distribution incoming circuit.

This product is featured technically by strong whole apparatus character, compact volume, good appearance, safe and reliable operating, easy maintenance, good appearance, convenient movement, deeply involved in load center, short construction period, and waste reduction and other advantages.

Environmental Conditions

1. Altitude: No more than 1000m.
2. Ambient Temperature: No more than +40°C and no less than -30°C.
3. Relative Humidity: the average daily value is no more than 95%, the average monthly value is no more than 90%.
4. Earthquake proof Level: Horizontal Accelerations $\leq 0.3g$, Vertical Acceleration $\leq 0.15g$.
5. Installation Location: Well-ventilation, chemical corrosion and violent vibration for product installed place. Vertical slope of less than 3 degrees.



Prefabricated Switching Station

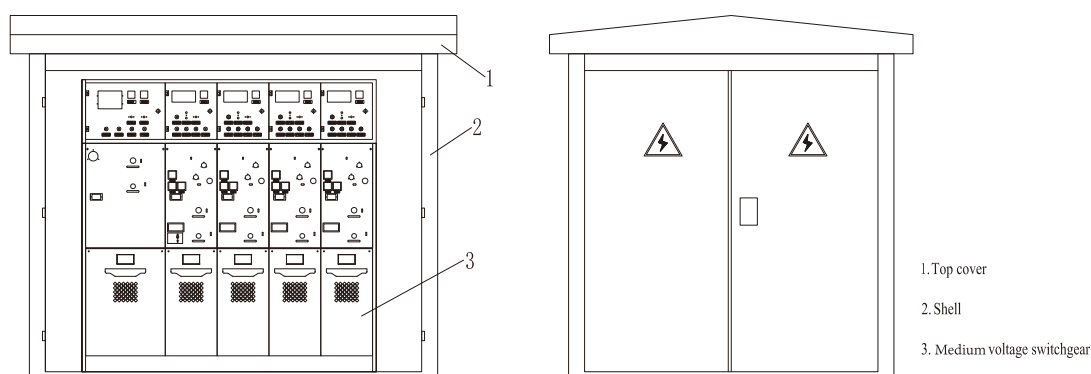
Product Features

1. Good heat insulation and ventilation measures: the cabinet is double-layer structure, and the interlayer is also equipped with heat insulation material, which effectively reduces the indoor temperature rise caused by sunshine.
The side or the upper part of the door is equipped with blinds to ensure that the product can operate safely with full load in high temperature season.
2. Safe and reliable operation. Products can be selected from XGN, SRM, sim6 series medium-voltage ring network cabinet, or other types of metal armored switch cabinet, with complete five prevention interlocking; good waterproof structure is adopted for door frame.
3. Convenient operation and maintenance. The inner room is equipped with automatic lighting device; the switch cabinet can be maintained before and after, which is convenient for installation, maintenance and replacement.
4. Beautiful appearance and durable. The shell can be made of environment-friendly cement material, aluminum alloy plate with high anti-corrosion performance, high-quality cold-rolled steel plate or stainless steel plate sprayed with plastic. The surface color can be arbitrarily configured according to the environment. All the mounting parts are galvanized, and the door lock adopts special anti blocking and anti rust universal lock.

Technical Parameters

Sr.	Content	Unit	Value
1	Rated Voltage	kV	12/40,5
2	Rated Current	A	630/1250
3	Rated Frequency	Hz	50/60
4	Rated Thermal Stability Current	kA	25/31,5
5	Rated Dynamic Stability Current	kA	63/80
6	Power Frequency Withstand Voltage in 1 min	kV	42/95
7	Lightning Impulse Withstand Voltage	kV	75/185
8	Connection Point Resistance	$\mu \Omega$	≤ 300
9	Power Frequency Withstand Voltage in 1 min	kV	1.89
10	Degrees of protection		IP33D

Schematic Diagram of Structure





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