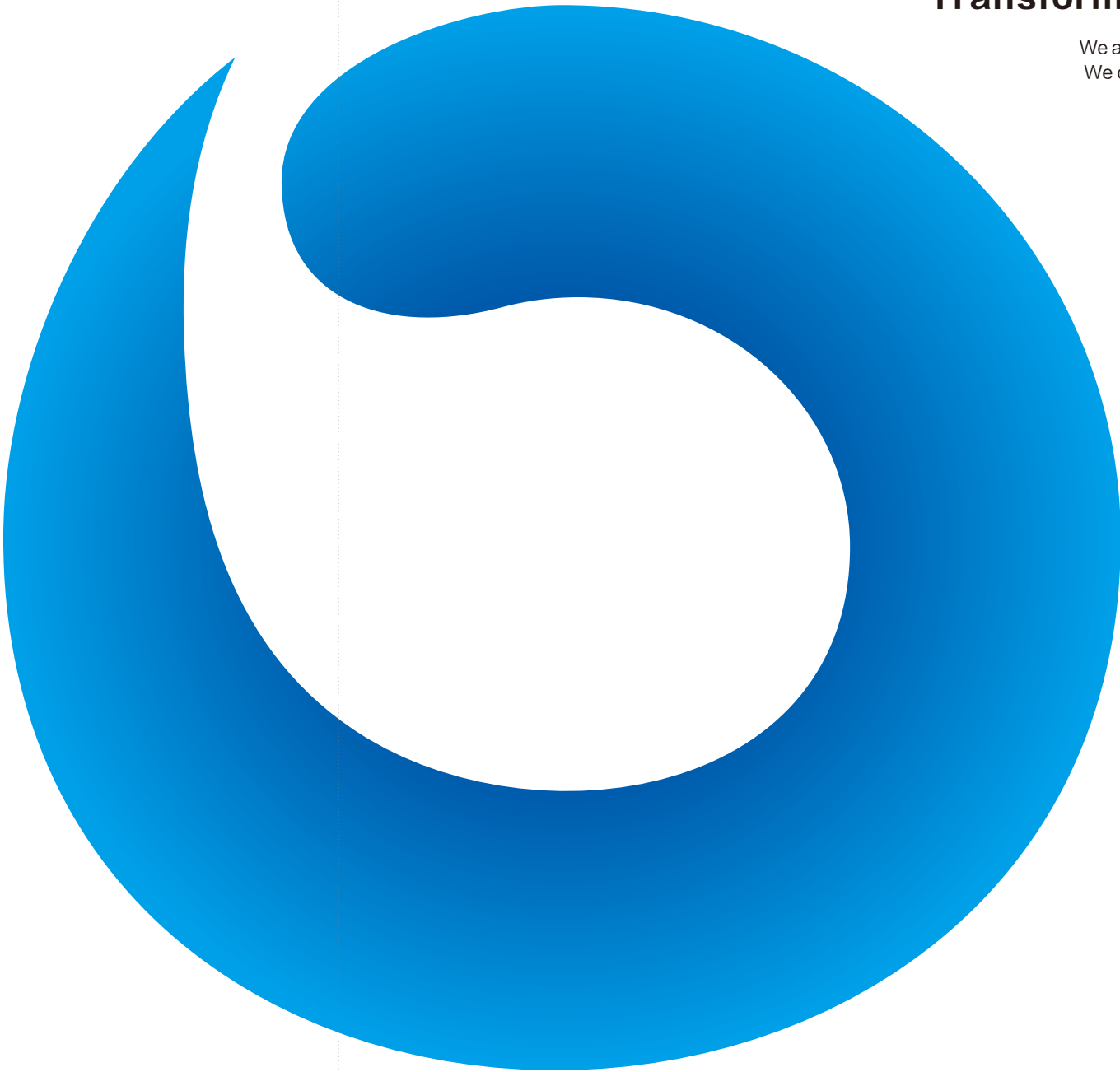


Product Catalogue

Transformer/box type substation

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Boxd-electric promise the quality management system conform to ISO9001. 2000. The product we manufacture conform to GB standard and electric power field standard.

Boxd-electric promise in charge of the outsourcing accessories parts quality, and provide product quality certificate, operating instruction, inspection report, etc.



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CONTENTS



Single Phase Oil Immersed Distribution Transformer



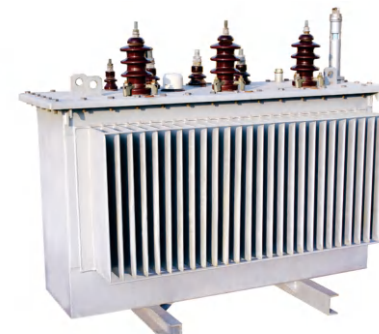
Single-phase automatic voltage regulator



Three-phase oil-immersed power transformer



Three-phase oil-immersed on-load voltage regulation and distribution transformer



Three phase amorphous alloy oil immersed transformer



Three phase oil immersed solid coil core distribution transformer



Epoxy resin cast dry type power transformer



Box-type substation (European Style)



Box Substation (American)



Single Phase Oil Immersed Distribution Transformer

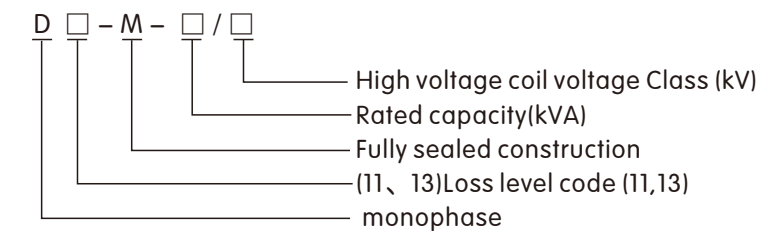
» Main purpose

D11 series high-efficiency, lowloss single phase transformer is suitable for agricultural production, lighting power consumption in rural power grid and remote mountainous areas. It can also be used for urban power grid transformation, will have good energy-saving effect. The transformer can be installed directly on the platform, or installed on the wire pole. Single-phase oil immersed distribution transformer produced by our company has passed type test by the national quality supervision and inspection center of transformer. The combination of low voltage of the transformer is 20.23kV, the principle and the use of the transformer are different from the ordinary single phase two wire system transformer. Its low voltage current is only half comparing rated current of ordinary single phase transformer (at 220V voltage is 2 times of the 230V, therefore, the current only half) the biggest advantage is line loss is only 1/4 ($P=I^2R$) comparing the use of the former with the latter one, which is the main reason for ordinary foreign users of the single phase transformer.

The overhead transformer may be used alone for the supply of a single phase load or as one of three units in a bank for the supply of a three phase load. Our single phase overhead distribution transformer is commonly used in various places including rural areas, remote regions and scattered villages to provide high quality power supply for daily lighting, agricultural production and industrial plants, grid, etc.

Single Phase Oil Immersed Distribution Transformer

» Model meaning



» Normal service condition

Altitude not exceeding 1000m indoors or outdoors
 Maximum ambient temperature: +40°C
 Maximum daily average temperature: +30°C
 Maximum annual average temperature: +20°C
 Minimum temperature: -25°C

» Main technical parameters

D11-M series 10kV single-phase oil-immersed non-exciting voltage regulation distribution transformer (corrugated plate square tank)

(kVA) rated capacity	Voltage combination			Join group label	(W) No- load loss	(W) Load loss	(%) Short- circuit impedance current	(%) No- load	(kg) weight			(mm) Overall dimension	(mm) gauge
	(kV) High tension	(%) tapoff	(kV) Low pressure						Body weight	Oil weight	All up weight	Length x width x height	
5	6 6.3 6.6 10 10.5 11	±5% or ±2x 2.5%	2x(0.22~ 0.24)or 0.22~0.24	li0	30	130	3.0%	1.2%	40	30	135	480x480x760	200x200
10					45	235		1.1%	55	33	155	480x660x780	200x200
16					55	330		1.0%	70	40	185	510x680x825	200x200
20					65	385		0.9%	90	42	200	520 x 695 x 850	300x300
30					80	560		0.8%	105	45	235	520 x 705x870	300x300
40				li6	100	700	3.5%	0.8%	130	56	280	550 x 710 x 875	300x300
50					120	855		0.7%	145	65	320	580x715x880	300x300
63					145	1020		0.6%	180	70	360	590x720x900	300x300
80					160	1260		0.6%	200	75	390	600x720x930	400x400
100					190	1485		0.6%	235	87	450	620x730x980	400x400
125					230	1755		0.5%	295	96	520	650x720x1020	400x400
160					290	2130		0.5%	340	112	600	680x780x1050	400x400



Single-phase automatic voltage regulator

» Main purpose

Single phase step voltage regulators are tap-changing autotransformers. They regulate distribution line voltages from 10% raise [boost] to 10% lower [buck] in thirty-two steps of approximately 5/8% each. Voltage ratings are available from 2400 volts [60 kV BIL] to 34.500 volts [200 kV BIL] for 60 Hz and 50 Hz systems. Internal potential winding taps and an external ratio correction transformer are provided on all ratings so that each regulator may be applied to more than one system voltage.

Single-phase automatic voltage regulator

Voltage regulators are designed for reliable operation and ease of maintenance and are supplied with a full array of standard features for routine applications. Optional accessories are available to accommodate special applications. It is also suitable for the energy saving projects for railway and urban grid. Voltage regulators are available with a full complement of standard features for routine applications, as well as a full line of optional accessories for unique applications. In addition, the regulator offers desirable features that enhance operation and service.

Series step voltage regulators use Schweitzer Engineering Laboratories, Inc [SEL] universal controller box model number SEL-2431 following standard IEEE C37.118

The M-6200 Digital Regulator Control is a microprocessor-based step-voltage regulator load tap changer control. Simple, intuitive, controls for voltage regulators, LTC transformers. Flexible communication options integrate the controls to SCADA/DMS systems for remote control monitoring, volt/VAR optimization and distributed generation.

» Main features

Simple, intuitive, controls for voltage regulators, LTC transformers.

Flexible communication options integrate the controls to SCADA/DMS systems for remote control monitoring, volt/VAR optimization and distributed generation.

Low cost of ownership delivered with industry leading warranties. A software based design approach and outstanding customer service and technical support.



Three-phase oil-immersed power transformer

» Main purpose

The S11, S13, S20-30~2500 series three-phase oil-immersed transformers produced by the company are fully filled with oil and sealed corrugated tank, and the tank shell ADAPTS to the expansion performance of oil with its own elasticity, and meets the heat dissipation requirements.

The new insulation structure is adopted in the body to improve the short-circuit resistance. The core is made of high quality cold rolled silicon steel sheet; Oxygen free copper wire is selected for high and low voltage windings, and multi-layer cylinder structure is adopted. All fasteners are specially secured.

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

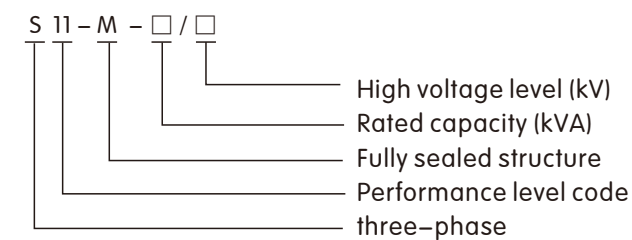
Three-phase oil-immersed power transformer

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» Model meaning



» Product characteristic

Energy-saving products, no-load loss than S9 transformer reduced by about 75%

Low loss, less heat, low temperature rise, stable operation

Advanced and reasonable structure, strong short-circuit resistance

Strong overload capacity, safe and reliable, strong corrosion resistance, maintenance-free

» Technical Parameter

Rated capacity (kVA)	Voltage combination			connected group label	No-load dissipation (w)	Load dissipation (W)75℃	No-load current (%)	(%) Impedance voltage	Exterior size(LxWxH) Install 4-Φ18			Total Weight (kg)
	(kV) High voltage(kV)	Tapping range	(kV) Low voltage									
30	6 6.3 6.6 10 10.5 11	± 5 ± 2x2.5	0.4	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		1800	1250	1660	3520
2000					1940	18300	0.4	5	1930	1360	1700	4060
2500					2290	21200	0.4		2080	1360	1750	5105

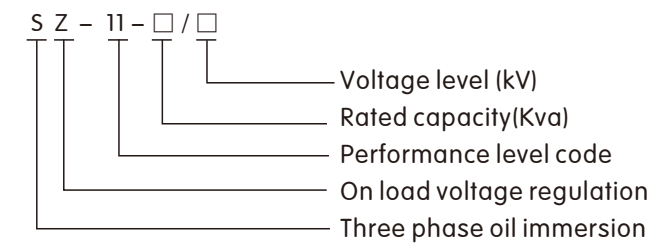


Three-phase oil-immersed on-load voltage regulation and distribution transformer

» Main purpose

SZ11-200-2500KVA/10KV three-phase on-load voltage regulator is suitable for 10kV, 50Hz power transmission and distribution systems, and can be used for industrial and mining enterprises and power lighting. The various conditions applicable to the product comply with the GB1094 "Power Transformers" standard.

» Model meaning



» Conditions of Use

Device type: outdoor type

Normal environmental conditions: the altitude does not exceed 1000m.

The highest ambient temperature is +40° C and the lowest temperature is -25° C. Special environmental conditions: altitude over 1000m.

The highest ambient temperature is +40C and the lowest temperature is -45C. (Details when ordering) Installation site: no corrosive gas, no obvious dirt environment.

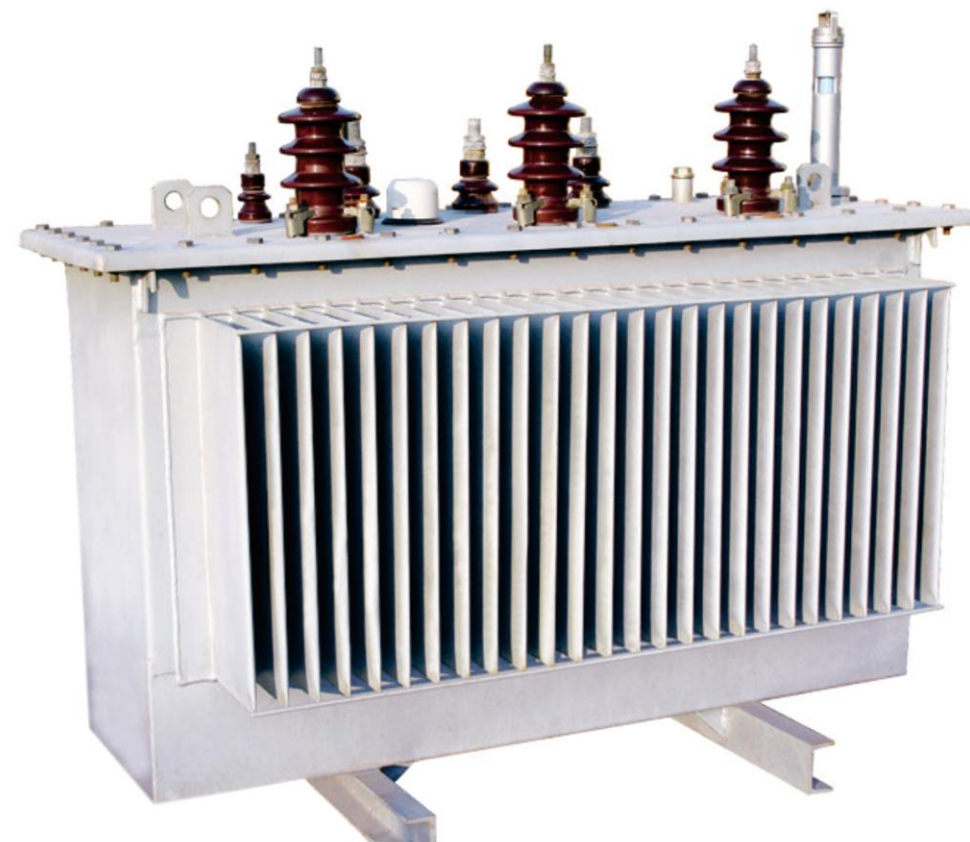
» Performance characteristics

The SZ11-200-2500/10kV on-load voltage regulating power transformer can automatically adjust the voltage according to grid voltage fluctuations under load conditions, thereby improving the quality of power supply. Its performance parameters have reached the advanced level of similar international products, with characteristics such as advanced technology, novel structure, beautiful appearance, and small footprint.

» Performance parameter

Rated capacity (kVA)	Voltage combination			Connection group label	no-load loss(W)	load loss(W)	no-load current (W)	short circuit impedance (%)
	High voltage (kV)	Tapping (%)	Low voltage (kV)					
200	6 6.3 10 10.5	± 4X2.5	0.4	Dyn11 Yyn0	0.380	2.90	1.0	4.0
250					0.440	3.42	0.90	
315					0.530	4.10	0.90	
400					0.640	4.95	0.80	
500					0.760	5.89	0.80	
630					0.960	7.26	0.60	4.5
800					1.12	8.89	0.60	
1000					1.36	10.4	0.60	
1250					1.56	12.3	0.50	
1600					1.92	14.7	0.50	
2000	10.5	± 4X2.5	0.4	Dyn11 Yyn0	2.27	18.6	0.40	5.0
2500					2.68	21.6	0.40	

Note: When the transformer annual average load rate is between 35% and 40%, the loss value in the table can be used to obtain the highest operating efficiency.



Three phase amorphous alloy oil immersed transformer

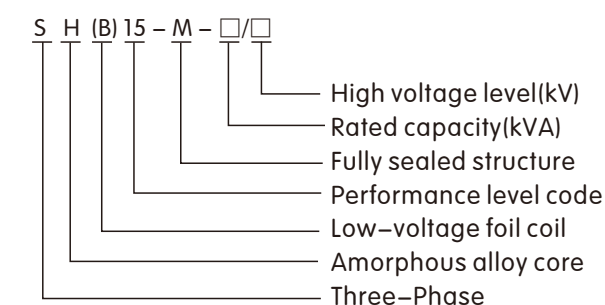
Product introduction

SH(B)15 series amorphous alloy transformer is a kind of oil immersed transformer with low loss and high energy efficiency. The core of the product is made of amorphous alloy strip, and its no-load loss is more than 70% lower than that of the traditional transformer with silicon steel sheet as core. It is a new generation of energy-saving, safe, green and environment-friendly high-tech product.

The product can replace the ordinary oil immersed transformer and is mainly used in high-rise buildings, commercial centers, subways, airports, stations, industrial and mining enterprises, power plants and other electric fields.

Three phase amorphous alloy oil immersed transformer

Model meaning



Normal Environment conditions

- 1.Ambient Temperature: No more than +40℃
No less than -25℃
The monthly average temperature is no more than +30℃
The yearly average temperature is no more than +20℃
- 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.

Performance parameter

Rated capacity (kVA)	Voltage combination			connected group label	No-load dissipation (W)	Load dissipation (W)145℃	No-load current (%)	(%) Impedance voltage	Outline dimension	Gauge x	Weight (kg)
	High voltage(kV)	Tapping range	Low voltage						Length (L)x width (B)x height (H)	Horizontal and Vertical (a x b)	
30	6 6.3 6.6 10 10.5 11	± 2 × 2.5 ± 5	0.4	Dyn11	33	630/600	1.50	4.0	950 × 620 × 1040	400 × 550	680
50					43	910/870	1.20		1060 × 770 × 1070	400 × 660	890
63					50	1090/1040	1.10		1240 × 920 × 1200	550 × 870	1030
80					60	1310/1250	1.00		1240 × 920 × 1200	550 × 870	1170
100					75	1580/1500	0.90		1280 × 920 × 1200	550 × 870	1230
125					85	1890/1800	0.80		1320 × 940 × 1200	660 × 870	1400
160					100	2310/2200	0.60		1340 × 940 × 1200	660 × 870	1470
200					120	2730/2600	0.60		1340 × 940 × 1200	660 × 870	1540
250					140	3200/3050	0.60	1370 × 1120 × 1260	660 × 1070	1720	
315					170	3830/3650	0.50	1370 × 1120 × 1330	660 × 1070	2000	
400					200	4520/4300	0.50	1520 × 1190 × 1360	820 × 1070	2400	
500					240	5410/5150	0.50	1890 × 1220 × 1470	820 × 1070	2950	
630					320	6200	0.30	1960 × 1210 × 1550	820 × 1070	3500	
800					380	7500	0.30	2030 × 1310 × 1560	820 × 1070	4100	
1000					450	10300	0.30	4.5	2540 × 1350 × 1800	820 × 1070	5550
1250					530	12000	0.20		2080 × 1540 × 1970	1070 × 1475	6150
1600					630	14500	0.20	5	2560 × 1690 × 2380	1070 × 1475	6600
2000					750	18300	0.2		2660 × 1800 × 2400	1070 × 1475	6950
2500					900	21200	0.2		2720 × 1800 × 2460	1070 × 1475	7260

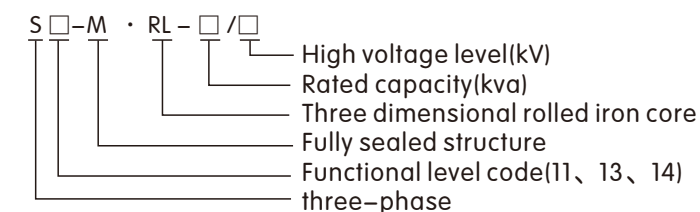


Three phase oil immersed solid coil core distribution transformer

Product introduction

S□-M. RLseries three-dimensional wound core oil immersed transformer produced by the company is a new generation transformer product with more reasonable structure, lower operation noise, better performance and stronger reliability. The product breaks through the traditional plane structure and adopts three-phase symmetrical three-dimensional structure. The three cores are arranged in an equilateral triangle, and the length of the three magnetic circuits is consistent. It has the characteristics of high efficiency and low loss. It 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



Product features

1. Optimized magnetic circuit design: the three-phase magnetic circuit length of three-dimensional wound core is completely equal, the sum of the three-phase magnetic circuit length is the shortest, the three-phase magnetic circuit is completely symmetrical, and the three-phase no-load current is completely balanced.
2. Low loss and remarkable energy-saving effect: the magnetization direction of three-dimensional coil core is completely consistent with the rolling direction resistance area and joint. On the premise of the same material, the process coefficient of core loss is significantly lower than that of laminated core, the core loss can be reduced by 10%–20%, and the no-load loss can be reduced by 25%–35%.
3. Low noise: as the three-dimensional core is made of silicon steel strip in a special core winding machine, there is no seam, so it will not produce the noise caused by the magnetic circuit discontinuity as the laminated core. Therefore, the voice of the product is greatly reduced, almost reaching the state of environmental protection mute, which is most suitable for indoor and residential use.
4. Strong overload capacity: the no-load loss and no-load current of this type of transformer are very small, so the calorific value of the product itself is very low; in addition, the three-phase coils are arranged in three rectangle structure, forming a central natural airway – "exhaust chimney" between the coils. Because the temperature difference between the upper and lower yokes is 30–40 ° C , strong air convection is generated, and the cold air flows from the bottom to the central passage in addition, the heat radiates out from the inner slope of the upper yoke, and the heat generated by the transformer is quickly taken away in the natural circulation.
5. Compact structure and small occupation: the three-dimensional iron core makes the product compact in structure, the plane occupation area of the body is reduced by 10–15% compared with the traditional products, and the body height is reduced by 10–20%

Performance parameter

Rated capacity (kVA)	Voltage combination		connected group label	No-load dissipation(w)	Load dissipation (W)75°C	No-load current(%)	Impedance voltage	Sound power levelB(A)
	(kV)High voltage(kV)	Tapping range (kV) Low voltage						
30	6 6.3 10 10.5 11	+5	0.4	80	630/600	0.30	4.0	48
50				100	910/870	0.24		
63				110	1090/1040	0.23		
80				130	1310/1250	0.22		
100				150	1580/1500	0.21		49
125				170	1890/1800	0.20		
160				200	2310/2200	0.19		
200				240	2730/2600	0.18		
250				290	3200/3050	0.17	4.5	52
315				340	3830/3650	0.16		
400				410	4520/4300	0.16		
500				480	5410/5150	0.16		56
630				570	6200	0.15		
800				700	7500	0.15		
1000				830	10300	0.14		58
1250				970	12000	0.13		
1600				1170	14500	0.12		

Note 1: For transformers with a rated capacity of 500 kVA or less, the load loss values above the slash in the table apply to the Dyn11 or Yzn11 connection group, and the load loss values below the slash line apply to the Yyn0 connection group.
Note 2: Transformers with a high voltage tap range of $\pm 2 \times 2.5\%$ are available according to user requirements. Note 3: Transformers with a low voltage of 0.69 kV are available according to user requirements.
Note 4: If the user needs, other loss values can be selected.



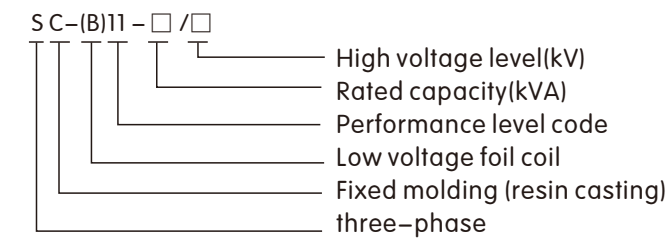
Epoxy resin cast dry type power transformer

» Product introduction

SC(B)11 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



» Normal Environment conditions

- 1.Ambient Temperature: No more than +40℃
No less than -25℃
The monthly average temperature is no more than +30°
The yearly average temperature is no more than +20℃
- 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%.
6. Installation Site: Indoor or outdoor.

» Performance 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- Φ 18	Total Weight (kg)
	High voltage(kV)	Tapping range	Low voltage			130℃ (B)	155℃ (F)	180℃ (H-I)				
						100℃	120℃	145℃				
30	6 6.3 6.6 10 10.5 11	± 2.5 ± 5	0.4	Dyn11	170	670	710	760	2.3	4.0	650 × 550 × 750	270
50					240	940	1000	1070	2.2		700 × 550 × 750	340
80					330	1290	1380	1480	1.7		750 × 660 × 800	460
100					360	1480	1570	1690	1.7		750 × 660 × 800	530
125					420	1740	1850	1980	1.5		860 × 720 × 810	605
160					480	2000	2130	2280	1.5		860 × 720 × 850	730
200		550			2370	2530	2710	1.3	880 × 720 × 900		825	
250		640			2590	2760	2960	1.3	920 × 760 × 920		1010	
315		790			3270	3470	3730	1.1	960 × 760 × 920		1165	
400		880			3750	3990	4280	1.1	1000 × 760 × 1010		1490	
500		1040			4590	4880	5230	1.1	1050 × 810 × 1080		1650	
630		1200			5530	5880	6290	0.9	1200 × 810 × 950		1915	
630		1170			5610	5960	6400	0.9	1200 × 810 × 950	1915		
800		1360			6550	6960	7460	0.9	1250 × 860 × 1020	2305		
1000		1590			7650	8130	8760	0.9	1300 × 960 × 1110	2690		
1250		1880			9100	9690	10300	0.9	1480 × 970 × 1200	3225		
1600		2200			11000	11700	12500	0.9	1500 × 1020 × 1235	3805		
2000		2740			13600	14400	15500	0.7	1500 × 1050 × 1350	4435		
2500		3240			16100	17100	18400	0.7	1620 × 1150 × 1450	5300		
1600	2200	12200			12900	13900	0.9	1500 × 1020 × 1235	3805			
2000	2740	15000			15900	17100	0.7	1500 × 1050 × 1350	4435			
2500	3240	17700			18800	20200	0.7	1620 × 1150 × 1450	5300			



Box-type substation (European Style)

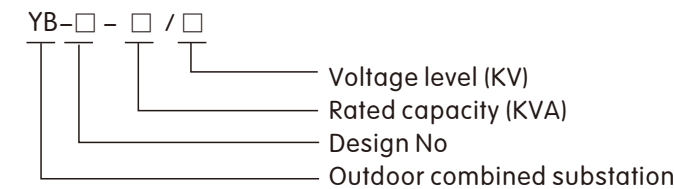
Product Overview

Prefabricated substation (also known as combined substation) is more flexible and convenient than civil substation, and is widely used in high-rise buildings, residential quarters, industrial parks, commercial centers, airports, station terminals, schools, industrial and mining enterprises and other places for urban network transformation.

Prefabricated substation (hereinafter referred to as box type substation) is composed of three parts: high-voltage switchgear, transformer and low-voltage switchgear. The general layout includes combined type and integrated type (commonly known as European transformer). The so-called combined type refers to that these three parts form an "eye" or "pin" shaped layout with each room. The integrated type takes the transformer as the main body, and the high-voltage load switch and fuse are installed in the transformer box to form an integrated layout.

Box-type substation (European Style)

Model meaning



Environmental conditions

- ◆ The altitude shall not exceed 4000m;
- ◆ Ambient temperature: -25 ℃~+40 ℃ ;
- ◆ Relative humidity: daily average value is not more than 95% , and monthly average value is not more than 90% ;
- ◆ Installation site: the site without fire, explosion, conductive dust, chemical corrosive gas and severe vibration. If the above conditions are exceeded, the user can negotiate with our company.

performance parameter

	project	unit	parameter		
High voltage unit	Rated frequency	Hz	50		
	Rated voltage	kV	6	10	35
	Maximum operating voltage	kV	6.9	11.5	40.5
	Rated current	A	400、630、1250		
	Transfer current	A	1200-3150		
	Power frequency withstand voltage to ground and interphase/ isolating fracture	kV	42/48		
	Lightning impulse withstand voltage to ground and interphase/ isolation fracture	kV	75/85		
	Rated short-circuit breaking current (current limiting fuse)	kA	31.5		
Transformer unit	Rated voltage	kV	6、10、35		
	Rated capacity	kVA	30-2000		
	Tapping range	%	± 2 × 2.5%、± 5%		
	Connection group		Yyn0、Dyn11		
Low voltage unit	Impedance voltage	%	4、4.5、6、8		
	Rated voltage	V	220、380、690、800		
	Rated current of main circuit	A	50-4000		
Housing	Branch current	A	5-800		
	Protection grade (conventional products)		High voltage chamber IP33; Transformer room IP23; Low voltage chamber IP33		
	noise level	dB	≤ 50		



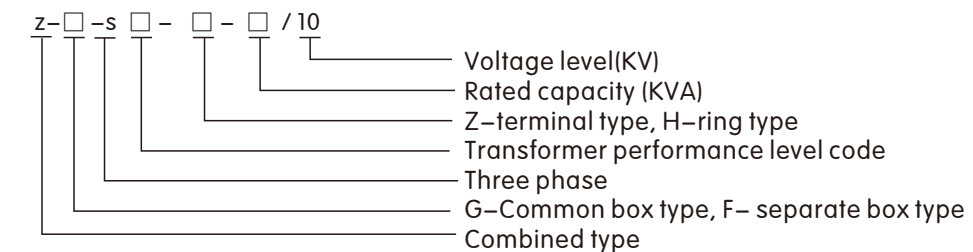
Box Substation (American)

Product Overview

Pre-assembled box substation (American) is the company's domestic American box variation. As an important power supply unit in the cable distribution network, the product is a complete set of pre-assembled products integrating high voltage control, protection, power transformation and distribution equipment, and is widely used in urban and rural distribution networks.

The product places the high-voltage load switch and high-voltage fuse in the transformer oil, and has two structural forms of co-box or separate box with the transformer body. The fuel tank is fully sealed and equipped with oil temperature gauge, oil level gauge and pressure gauge. Pressure relief valve, oil relief valve and other components to monitor transformer operation. The product is divided into ring network type, terminal type and dual power supply mode. In order to make this product more suitable for the actual requirements of China's power grid, the company has introduced a plug and pull type dry fuse, the fuse does not affect the performance of transformer oil. According to the complexity of low pressure feed requirements, products are divided into standard, enhanced and integrated three shell forms, so that users and design units can be more flexible and more economical when selecting.

Model meaning



Product structure characteristics

1. Compact structure, small volume, only about 1/3~1.5 of the domestic European box type substation with the same capacity, greatly reducing the floor area.
2. Fully sealed and insulated structure, without insulation distance, reliably protects personal safety.
3. High voltage wiring can be used for both ring network and terminal, with flexible power supply mode and high reliability.
4. Excellent transformer performance: low loss, low noise, low temperature rise; Strong overload capacity, short circuit resistance and impact resistance.
5. Meet various low-voltage feed out requirements, which can be selected according to the scheme or designed by choice;
6. There are two types of 200A elbow plug, 600A "T" fixed cable connector, which can be equipped with fully insulated zinc oxide arrester. 200A cable head can be plugged and pulled with load, and can also act as an isolating switch.

performance parameter

project	unit	technical parameter
Rated voltage	kV	10/0.4(HV/LV)
Maximum operating voltage	kV	12(High voltage side)
Rated frequency	Hz	50
Rated capacity	kVA	150~1600
1min power frequency withstand voltage	kV	35
Lightning impulse voltage	kV	75
Cooling mode		Oil immersed self cooling
Breaking current of high-voltage backup fuse	kA	50
Breaking current of plug-in fuse	kA	2.5
ambient temperature	°C	-35~+40
Allowable temperature rise of coil	k	65
No-load voltage regulation		± 5% 或 ± 2 × 2.5%
Noise level	db	50
Degree of protection		IP43