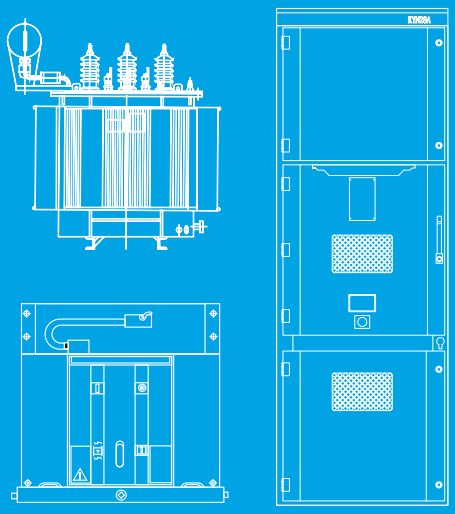
Chanan

CHANGAN ELECTRIC

>> Complete Power Transmission and Distribution



CHANGAN GROUP CO.,LTD.

Changan Group Yueqing Economic Development Zone Industrial Park

ABOUT US

Founded in 1987, CHANGAN GROUP is now located in Zhejiang province-level economic development zone - Yueqing Economic Development Zone. Led by industrial electric appliances, CHANGAN GROUP is a large enterprise group integrating R & D, manufacturing, trade, finance , investment, servicesother functions into one. Wholly-owning and holding more than 20 companies, the Group specializes in the production of medium / low voltage electric appliances, instruments, power apparatuses, switchgear assemblies and construction electric appliances. With more than 1,000 sales companies throughout the country, the group's products are exported to more than 40 countries and regions, such as Europe, Middle East, etc.

There are three manufacturing departments in the Industrial Control Electric Appliances Corporation of the Group mainly developing and producing various contactors, thermal relays, intermediate relays, starters, voltage stabilizers, transformers, voltage regulators, mutual inductors, fuses, knife switches, load break switches, current reversers and other products.

There are three manufacturing departments in the Distributing Apparatus Corporation of the Group mainly developing and producing various of frame style intelligent circuit breakers, molded case circuit breakers, molded case residual-current circuit breakers, dual power transfer switches, intelligent reclosers, CPS intelligent integrated protectors, miniature circuit breakers, miniature residual-current circuit breakers, circuit breakers for electric meters, miniature disconnectors, surge protectors, sockets, electric meter, motor protectors, digital display ampere meters and voltage meters and other products.

Zhejiang Changan Properties Investment Co., Ltd. of the Group is mainly engaged in capital operation, investment and asset management, real estate development and sales, business operation as well as business consulting, property management and other businesses.

Zhejiang Changan power transmission and distribution co.,ltd. is mainly developing, producing and selling 35KV KYN61 and KYN28 series of medium voltage switchgears, 0.4KV GCK, CAGCS, CAMNS and GGD series of low voltage switchgears, 0.4KV CAPZ2 (JP cabinet) series of integrated compensating cabinets, 10/0.4KV box-type substations and other switchgear assemblies as well as VS1 medium voltage switchgear.

Electric Export and Import Company of the Group is an export-oriented company specializing in the development and production of circuit breakers, contactors and intelligent controllers.

CHANGAN GROUP is the first one in the same industry in China to pass ISO9001 quality system certification, ISO14001 environmental system certification and OHSAS18001 occupational health and safety management system certification. All products have obtained China Compulsory Certification (CCC certification), Some products have passed CE and CB certifica tions of European Community as well as KEMA certification of Netherlands. Meanwhile, the Group also has more than 60 dom estic and overseas patents and has participated in the drafting and revision of a number of industrial and national standards.

The Group has been honored to be listed in the national high-tech enterprises, China's top 500 private enterprises, China's top 500 in the machinery industry, China' s top 500 in the manufacturing industry, famous brands of Zhejiang Province, well-known trade names in Zhejiang Province, AAA grade credit rating in provincial taxpaying, High-Tech R & D Center in Zhejiang Province, top 100 enterprises and AAA grade credit rating in Wenzhou City and other qualifications and honorary titles.

With a new image, a new starting point and a new dream, CHANGAN GROUP will continue to adhere to the corporate philosophy of Quality First and Customer Uppermost, take Serving for Electricity Intellectualization as the mission and devote its efforts to become an outstanding

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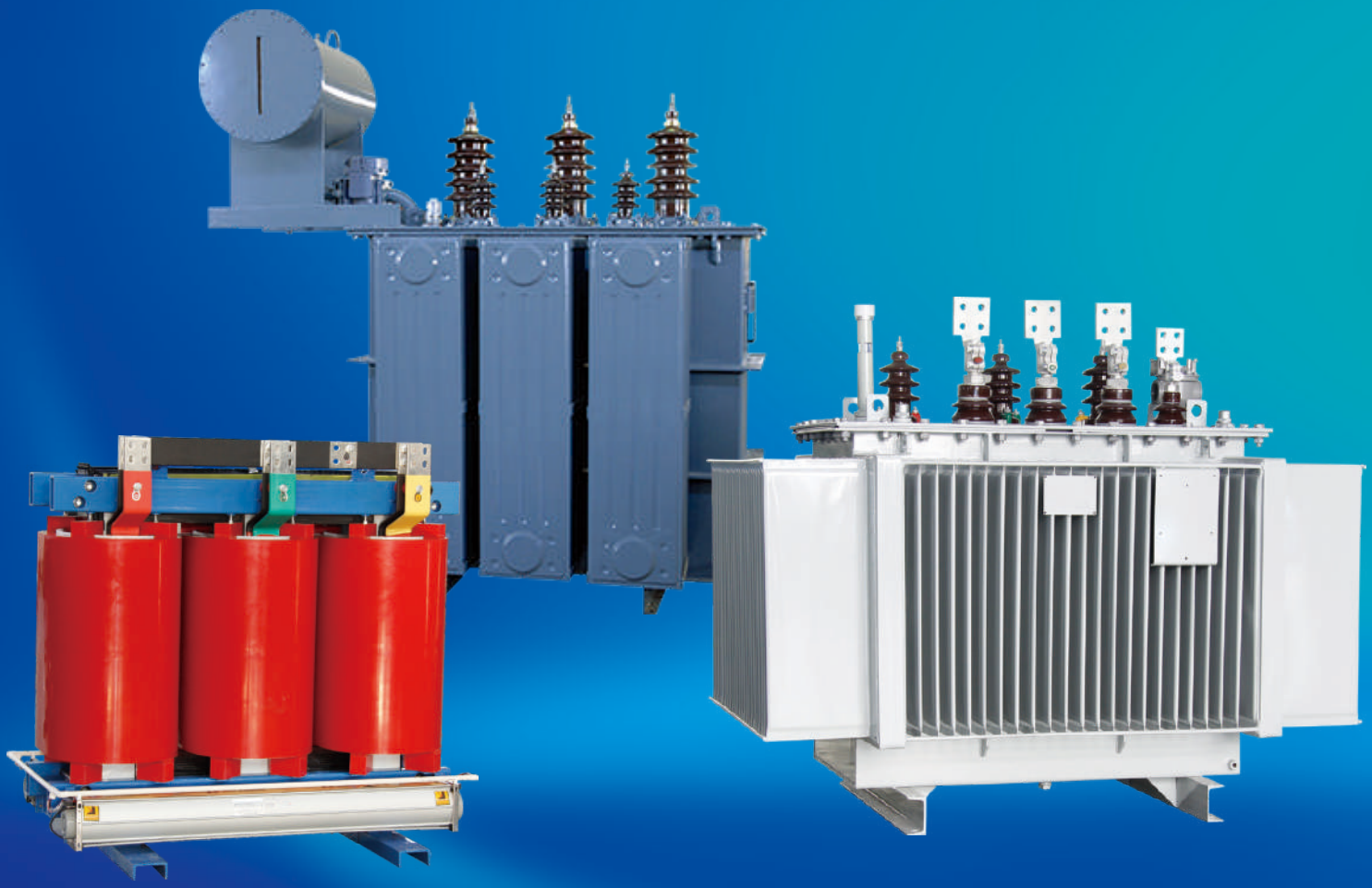
Chanan

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

S □ - M - □ / □

- Medium voltage level (kV)
- Rated capacity (kVA)
- Fully sealed structure
- Performance level code
- Three-phase

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 ratedcurrent;
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

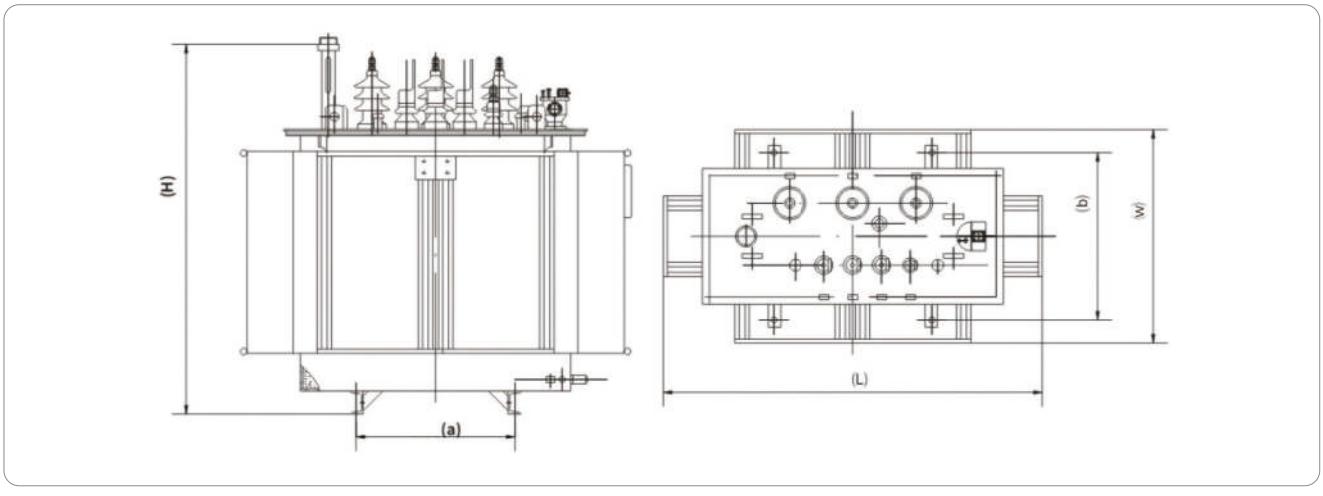
S11-M Technical Parameter

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		1800	1250	1660	3520
2000					1940	18300	0.4	5	1930	1360	1490	4060
2500					2290	21200	0.4		2080	1360	1570	5105

Note 1 : for transformers wlth 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

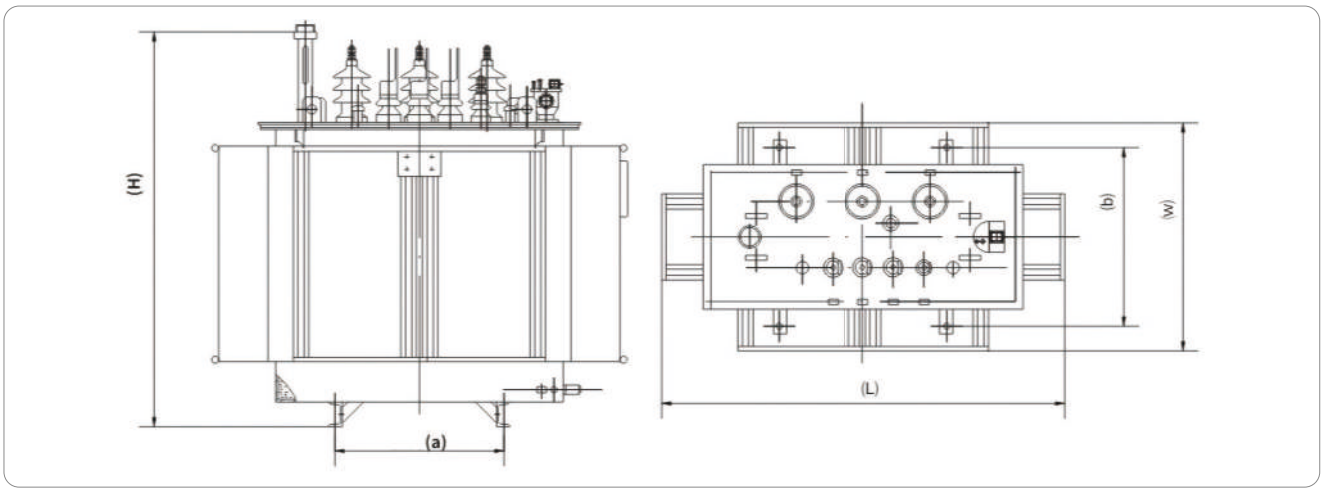
S13-M Technical Parameter

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		1775	1225	1580	3310
2000					1550	18300	0.4	5.0	1855	1265	1600	3960
2500					1830	21200	0.4		1885	1305	1780	4980

Note 1 : for transformers wlth 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

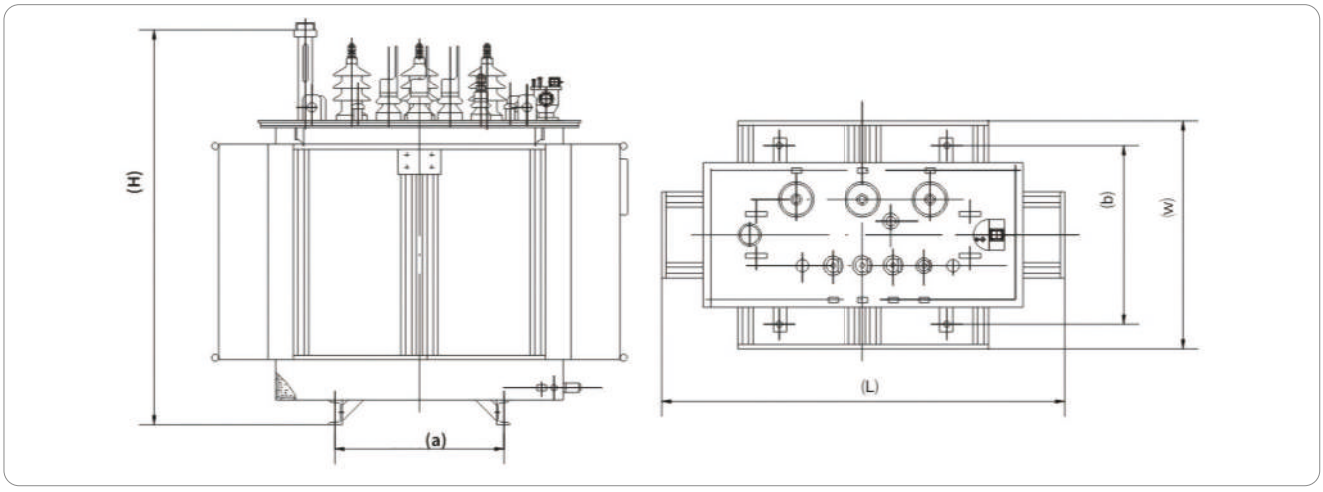
S14-M Technical Parameter

Rated capacity (kvA)	Voltage combination			Connected group label	No-load dissipation (w)	Load dissipation (W)75℃	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		1680×1150×1600	3905
2000					1550	14600	0.4	5.0	1890×1300×1600	4130
2500					1830	16900	0.4		1990×1360×1700	5250

Note 1 : for transformers wlth 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.

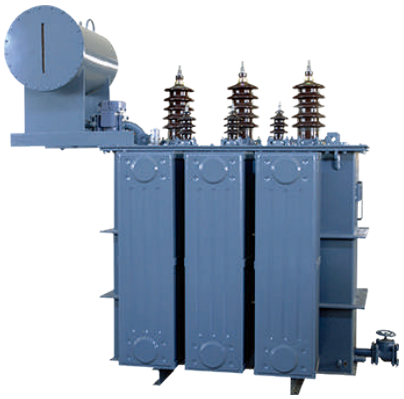
Note 2: when the average annual load rate of the transformer is between 35% and 40%, the maximum operating efficiency can be obtained by using the loss value in the table.

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



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

S Z □ - □ / 35

- 35: Medium voltage level(kV)
- □: Rated capacity(kVA)
- □: Characteristic code(9、11)
- Z: On load voltage regulation
- S: Three-phase

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 ratedcurrent;

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.

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	±2×2.5 ±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	

Oil Immersed Power Transformer

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

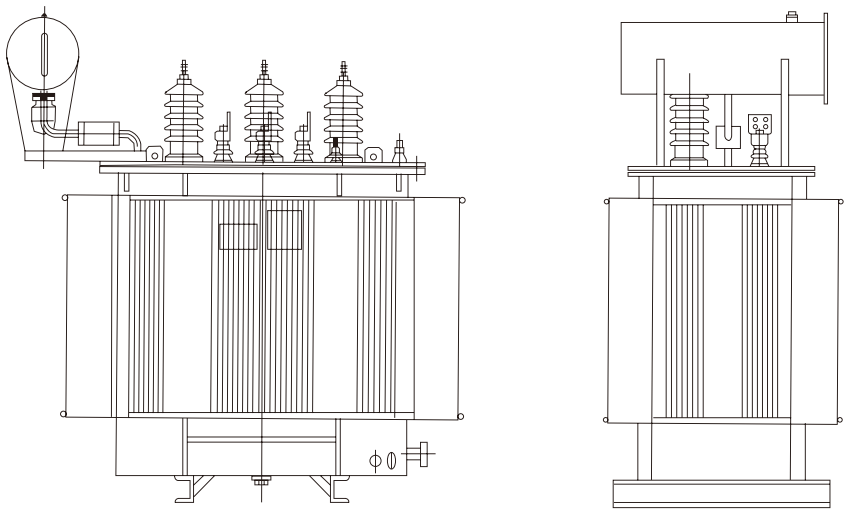
Rated capacity (kvA)	Voltage combination			Connected group label	No-load dissipation (w)	Load dissipation (W)145°C	No-load current (%)	Impedance voltage (%)
	Medium voltage (kV)	Tapping range	Low voltage (kV)					
630	35 or other	±2×2.5 ±5	3.15 6.3 10.5 15 or other	Yd11	830	7860	0.65	6.5
800					980	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	±2×2.5 ±5	3.15 6.3 10.5 15 or other		3040	23000	0.45	7.0
4000					3610	27300	0.45	
5000					4320	31300	0.45	
6300					5240	35000	0.45	8.0
8000	35~38.5 or other	±2×2.5	3.15 3.3 6.3 6.6 10.5 15 or other	YNd11	7200	38100	0.35	
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	

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°C	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	o.50	7.0
4000					3870	29100	0.50	
5000					4640	34200	0.50	
6300					5630	36700	0.50	8.0
8000	35–38.5	±3×2.5	6.3 6.6 10.5 15 or other	YNd11	7870	40600	0.40	
10000					9280	48000	040	
12500					1090	56800	0.35	
16000					1310	70300	0.35	
20000					1550	82100	0.35	
25000					1830	97800	0.30	10.0
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

S C (B) □ - □ / □

- Medium voltage level(kV)
- Rated capacity (kVA)
- Performance level code
- Low voltage foil coil
- Fixed molding (resin casting)
- Three-phase

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

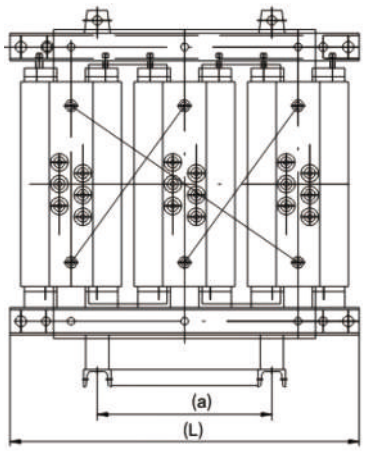
1. The medium voltage winding is made of enameled copper wire or film wrapped copper wire, and the low voltage winding is made of copper foil. The medium voltage winding is filled with glass fiber felt. In the vacuum state, the epoxy resin without filler is used for pouring, which forms a solid whole 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.

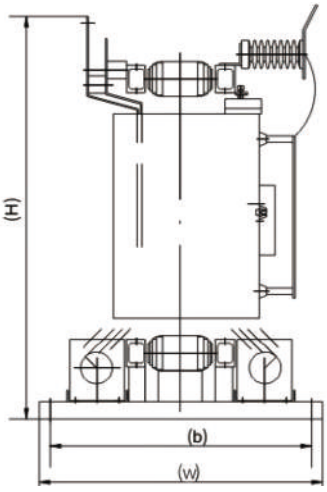
Epoxy Resin Dry Type Transformer

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) 100°C	155°C (F) 120°C	180°C (H) 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		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	6.0	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	8.0	1765×1150×1405	3805
2000					2740	15000	159000	17100	0.7		1840×1150×1475	4435
2500					3240	17700	18800	20200	0.7		1900×1150×1560	5300

Dimensions





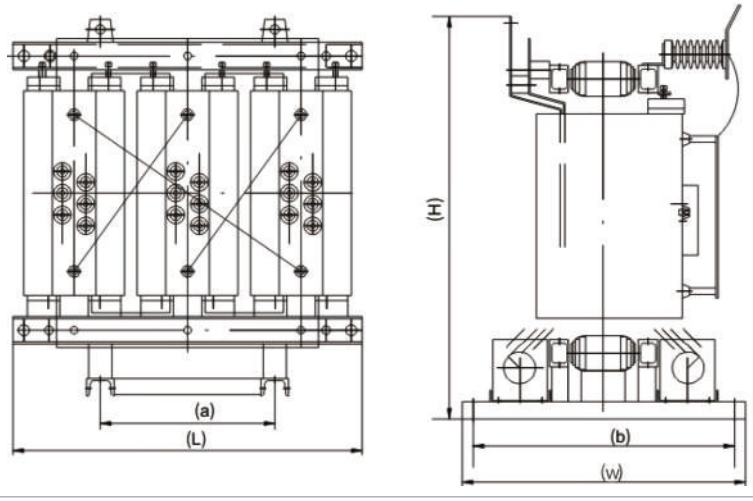
Notes: The dimensions and weights provided are only for reference in design and selection.The final size and weight are subject to our product drawings.

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) 100°C	155°C (F) 120°C	180°C (H) 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		±2×2.5 ±5			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



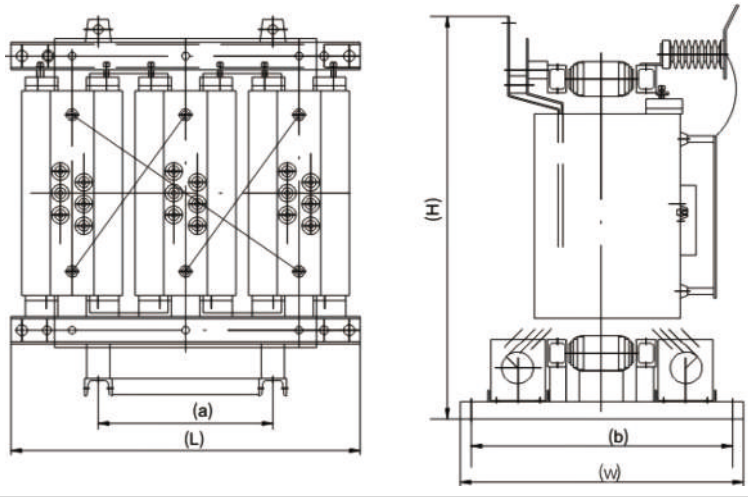
Notes: The dimensions and weights provided are only for reference in design and selection. The final size and weight are subject to our product drawings.

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) 100°C	155°C (F) 120°C	180°C (H) 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×lO00	630
160					385	1800	1910	2050	1.5		1105×900×1045	770
200		±2×2.5 ±5			445	2130	2270	2440	1.3		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		1900×1150×1565	5495
1600					1760	11o00	11600	12500	0.9	8.0	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



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.

Chanan

Medium Voltage Switchgear

Always for your safety

Metal-clad Movable Switchgear

Product Summary

KYN28A–12 indoor metal–clad movable switchgear is a complete power distribution device for 3.6kV~12kV, 3 phase AC 50/60Hz, single bus sectionalized system. It is mainly used for power transmission of middle/small generators in power plants, power receiving, transmission for substations in power distribution and power system of factories, mines and enterprises, and starting of large medium voltage motor etc., so as to control, protect and monitor the system. It complies with IEC62271-1, IEC62271-200 and other relative standards. It has functions of preventing to push or pull the breaker's handcart with load, breaker's mistakenly open or close, shut off the breaker when the grounding switch is on the position of close, enter into a electriferous compartment, mistakenly close the interlock function of the grounding switch when it is electriferous.It can be used with domestic VCA and VS1 vacuum circuit breaker, it can be used with VD4 from ABB and EV12S from Schneider.

Environmental Conditions

1.Ambient Temperature: No more than +40℃ and no less than –15℃.Average temperature is no more than +35℃ within 24 hours.
2.Altitude: No more than 1000m.
3.Relative Humidity: the average daily value is no more than 95%, the average monthly value is no more than 90%.
4.Earthquake Intensity: No more than 8 degrees.
5.Vapor pressure: average daily value is no more than 2.2kPa, average monthly value is no more than 1.8kPa.
6.Installation locations without fire, explosion danger, serious pollution, chemical corrosion and violent vibration.

Metal-clad Movable Switchgear

Product Features

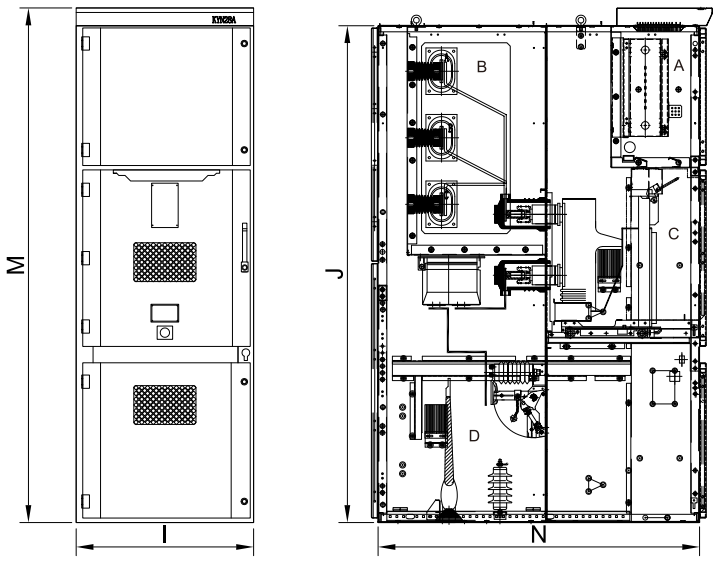
1.The cabinets and partition boards adopting hot-dip Al-Zn alloy-coated steel sheet and frame adopting multiple bending technology make high overall intensity and good earth continuity.
2.Fully considering the operation characteristics of the neutral point of the power system without grounding or through the arc suppression coil grounding, increase the insulation clearance and enhance the insulation level, so as to ensure that the switchgear meets the high requirements for the insulation strength.
3.Completely metal clad and absolutely compartments separation.
4.The degrees of protection is IP4X, which effectively prevents the equipment from being invaded by sundries and insect pests.
5.Simple and effective mechanical block for five-preventions,preventing from mis-operating.
6.The movable handcart use sworm and worm wheel propelling mechanism. The same type of handcart can be interchanged completely, easy to operate and maintain.
7.It can be installed away from the wall, which is more convenient for double sides maintenance. Or it can be installed against the wall, maintain in front of the cabinet, with less space occupation.
8.Min. width of panel is 550mm, which can increase the utilization of distribution room.
9.The product runs safely and reliably through the harsh condensation, filth and internal arc tolerance test.

Technical Parameters

Sr.	Content		Unit	Value	
1	Rated Voltage		kV	12	24
2	Rated Current		A	630~4000	
3	Rated Frequency		Hz	50/60	
4	Power Frequency Withstand Voltage in 1 min	Phase, Earthed	kV	42	50
		Isolating Fracture	kV	48	65
5	Lightning Impulse Withstand Voltage(Peak)	Phase, Earthed	kV	75	95
		Isolating Fracture	kV	85	110
6	Rated Current of the Main Busbar		A	630~4000	
7	Rated Current of the Branch Busbar		A	630~4000	
8	Rated Short-circuit Breaking Current		kA	20/25/31.5/40/50	
9	Rated Short Circuit Making Current		kA	50/63/80/100/125	
10	Rated Short-time Withstand Current(4s)		kA	20/25/31.5/40/50	
11	Rated Peak Withstand Current		kA	50/63/80/100/125	
12	Frequency Withstand Voltage in 1 min of Aux Control Loop		V	2000	
13	Internal Arc Duration Test(0.5s)		kA	31.5~40	
14	Rated Voltage of Aux Control Loop		V	AC or DC 110/220	
15	Degrees of Protection		IP	IP4X (IP2X when the front door is opened)	

Note: Customizable products (Rated Voltage:24kv), please consult our company for detailed data.

Schematic Diagram of Structure



A: Relay & instrument compartment
B: Busbar compartment
C: VCB compartment
D: Cable compartment

Dimensions of switchgear: (with * is frame size excluding door panel size)

Voltage	Rated parameters	I(mm)	J(mm)	M(mm)	N*(mm)
12kV	630~1250A down line	800	2240	2320	1450
12kV	630~1250A Overhead cable	800	2240	2320	1610
12kV	1600A and above (rated current 1250A at an altitude of 4000m)	1000	2240	2320	1450
12kV	1600A and above (rated current 1250A at an altitude of 4000m)	1000	2240	2320	1610
24kV	Down line	1000	2320	2430	1760
24kV	Overhead cable	1000	2320	2430	2060

Metal-clad Movable Switchgear

Product Summary

KYN61–40.5 Air insulated metal–clad movable switchgear is an indoor switchgear, assembly operating under the Conditions of 50/60Hz three phase and rated 40.5kV AC voltage, which applied to the transmission and distribution for generators, transformer substations and the industry and mine enterprises.It also can be used to control, protect and monitor electric circuits, and very useful to frequent operating conditions. It complies with IEC62271-1, IEC62271-200 and other relative standards.

Environmental Conditions

1.Ambient Temperature: No more than +40℃ and no less than –15℃.Average temperature is no more than +35℃ within 24 hours.
2.Altitude: No more than 1000m.
3.Relative Humidity: the average daily value is no more than 95%, the average monthly value is no more than 90%.
4.Earthquake Intensity: No more than 8 degrees.
5.Vapor pressure: average daily value is no more than 2.2kPa, average monthly value is no more than 1.8kPa.
6.Installation locations without fire, explosion danger, serious pollution, chemical corrosion and violent vibration.

Metal-clad Movable Switchgear

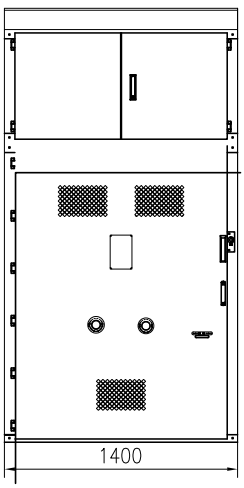
Product Features

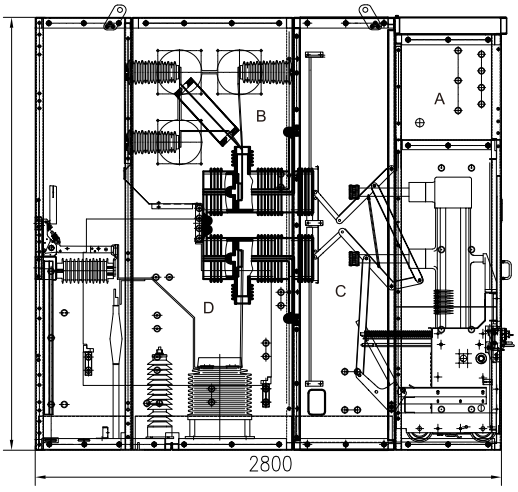
1.The cabinets and partition board adopting hot-dip Al-Zn alloy-coated steel sheet and frame adopting assembled structure make high overall intensity and good earth continuity.
2.The cabinet is combined type and the handcart of breaker is floor structure type.
3.The new composite insulating vacuum circuit breaker has the characteristics of interchangeability and simple replacement.
4.The handcart adopts screw propulsion mechanism, which moves the handcart easily and prevent mis-operation to damage the propulsion mechanism.
5.All the operations could be done when the cabinet door is closed.
6.The interlocking between the main switch, the handcart and the switch cabinet adopts the mandatory mechanism of mechanical locking,meeting the functions of five-preventions.
7.The cable room is spacious and can be connected to a number of cables.
8.The degrees of protection is IP4X, which effectively prevents the equipment from being invaded by sundries and insect pests.
9.The product runs safely and reliably through the harsh condensation, filth and internal arc tolerance test.

Technical Parameters

Sr.	Content		Unit	Value
1	Rated Voltage		kV	40.5
2	Rated Current		A	630/1250/1600/2000/2500
3	Rated Frequency		Hz	50/60
4	Power Frequency Withstand Voltage in 1 min	Phase, Earthed	kV	95
		Isolating Fracture	kV	110
5	Lightning Impulse Withstand Voltage(Peak)	Phase, Earthed	kV	185
		Isolating Fracture	kV	215
6	Rated Current of the Main Busbar		A	630/1250/1600/2000/2500
7	Rated Current of the Branch Busbar		A	630/1250/1600/2000/2500
8	Rated Short-circuit Breaking Current		kA	20/25/31.5
9	Rated Short-time Withstand Current(4s)		kA	20/25/31.5
10	Rated Peak Withstand Current		kA	50/63/80
11	Rated Short Circuit Making Current		kA	50/63/80
12	Frequency Withstand Voltage in 1 min of Aux Control Loop		V	2000
13	Internal Arc Duration Test(0.5s)		kA	31.5
14	Degrees of Protection		IP	IP4X (IP2X when the front door is opened)
15	Rated Voltage of Aux Control Loop		V	AC or DC 110/220

Schematic Diagram of Structure





A: Relay & instrument compartment
B: Busbar compartment
C: VCB compartment
D: Cable compartment

Switchgear Dimensions:
(with * is frame size excluding door panel size)

Voltage	Rated parameters	A(mm)	B(mm)	C(mm)	D(mm)
40.5kV	Down line	1400	2600	2650	2800
	Overhead cable	1400	2600	2650	3000

Remarks: 1600mm wide cabinet type can be customized.

Full Gas Insulated RMU

Product Summary

SRM□–12 Full Gas Insulated RMU is indoor cabinet type AC metal sealed switching device, with AC 10kV and 50/60Hz.It is suitable for distribution systems,ring power supply and biradial power supply system in factories, workplaces, residential high–rise buildings, it possesses functions of receiving, distribution and protection. It can also used in the prefabricated substation.

Environmental Conditions

1.Ambient Temperature: No more than +40℃, No less than –40℃.Average temperature no more than +35℃ within 24 hours.
2.Altitude: No more than 2000m.
3.Relative Humidity: the average daily value is no more than 95%, the average monthly value is no more than 90%.
4.Earthquake Intensity: No more than 8 degrees.
5.Vapor Pressure: the average daily value is no more than 2.2kPa,and the average monthly value is no more than 1.8kPa.
6.Installation locations without fire, explosion danger, serious pollution, chemical corrosion and violent vibration.

Product Features

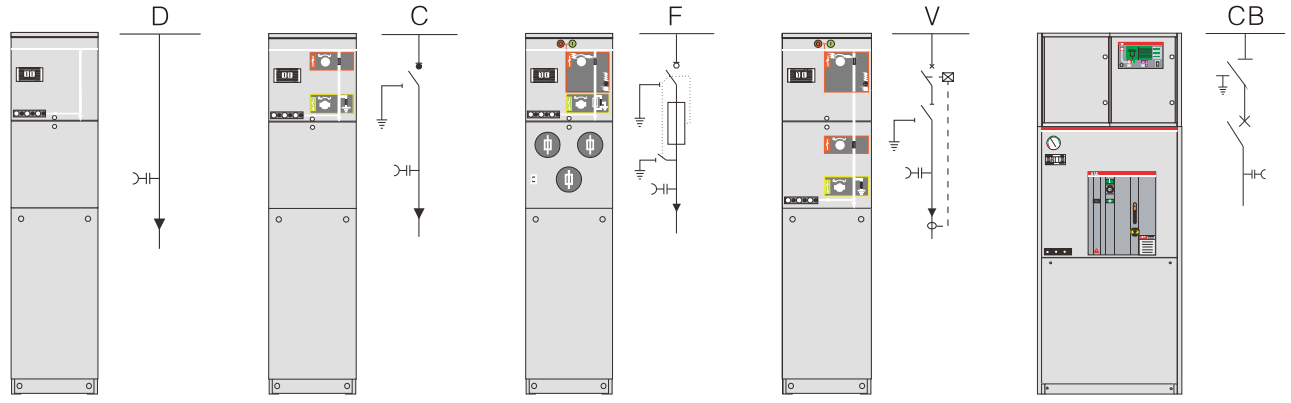
1.Fully sealed design,all 10kV switches and busbar electrified bodies are sealed in the gas box welded by 3mm stainless steel plate, and the silicon rubber cable plug is applied to achieve the full insulation seal of the cable head, so that it is not affected by external environment such as dust, humidity and small animals.
2.The switching device has a perfect "five–preventions", with simple and clear operation procedures.
3.Modular design. Each unit module can be combined and extended arbitrarily, which is easy to schemes combination, with a wide applicable range.
4.Big capacity for feeder line, small occupation, suitable for a variety of needs, wide range of applications.
5.Equipment maintenance–free, highly reliable performance.

Full Gas Insulated RMU

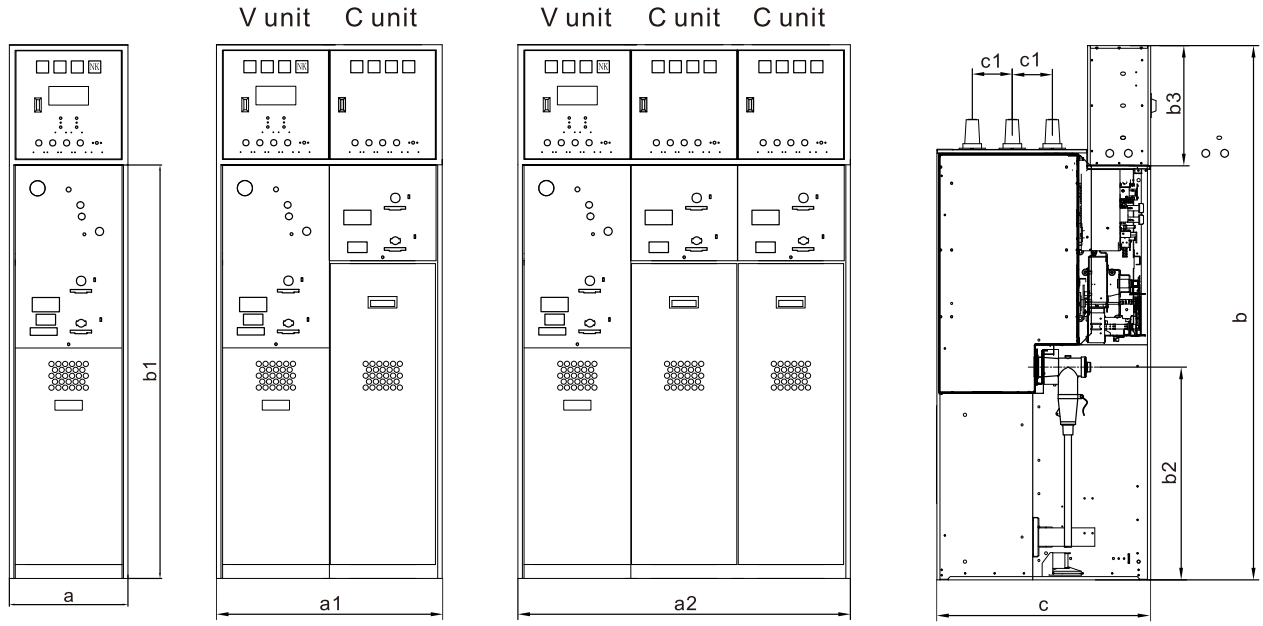
Technical Parameters

Content		Unit	C Module			F Module			V Module		
Rated Voltage		kV	12	24	33	12	24	33	12	24	33
Rated Frequency		Hz	50/60								
Rated Current		A	630			Depends on the current rating of the fuse			630		
Power-Frequency Withstand Voltage	Phase to Phase Phase to Eath	kV	42	65	95	42	65	95	42	65	95
	Between Open Contacts	kV	48	79	95	48	79	95	48	79	95
Lightning Impulse Withstand Voltage (Peak)	Phase to Phase Phase to Eath	kV	75	125	250	75	125	250	75	125	250
	Between Open Contacts	kV	85	145	250	85	145	250	85	145	250
Zero Gauge Pressure Test		-	Pass								
Rated Short-time Withstand Current		kA/s	25kA/4s	25kA/3s	25kA/3s	-			25kA/4s	25kA/3s	25kA/3s
Rated Peak Withstand Current		kA	63			-			63		
Rated Short-Circuit Making Current		kA	50			Limited By HV Fuses			50		
Rated Short-Circuit Breaking Current		kA	-			Limited By HV Fuses			25		
Rated Transfer Current		A	-			1750	1400		-		
Rated Active Load Breaking Current		A	630			-			-		
Rated Closed-Loop Breaking Current		A	630			-			630		
1min Power-Frequency Withstand Voltage(Control and Auxiliary Circuit)		V	2000								
Load Switch/Circuit Breaker		Time	5000			5000			10000		
Isolation Switch/Grounding Switch		Time	3000			3000			3000		
Loop Resistance		μΩ	⩽120			-			⩽120		
Rated Inflation Pressure (Absolute Pressure)		Bar	1.3								
Minimum Inflation Pressure (Absolute Pressure)		Bar	1.2								
Annual Relative Gas Leakage Rate		%	⩽0.05								

Typical Scheme Diagram



Full Gas Insulated RMU



V cabinet

Rated voltage	a	a1	a2	b	b1	b2	b3	c	c1
12kV	371	696	1021	1736	1336	710	400	798	150
24kV	445	845	1245	2000	1550	796.5	450	800	150
33kV	512	992	1472	2200	1835	750	365	967	-

Note: b2.b3 height can be customized upon request

Fuse selection and installation

Fuse configuration selection parameters table

Rated voltage	Transformer rated capacity(kVA)													
	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000
	Hv fuse rated current(A)													
6/7.2	16	20	20	25	31.5	40	50	63	80	100	125	160	200	250
10/12	10	16	16	20	25	31.5	40	50	63	80	80	100	125	160
15/17.5	6.3	10	10	16	16	20	25	31.5	40	80	80	80	100	125
20/24	6.3	10	10	10	16	16	20	25	31.5	40	50	63	80	100
35/40.5	3.15	6.3	6.3	6.3	10	10	16	16	20	25	31.5	40	50	56

Note: the above is the general selection principle of fuse. Since the fuse tube of the inflation cabinet is sealed in an airtight box, especially in a sultry areas, it is recommended to select the fuse according to one step larger than conventional current. Specific please according to the local design scheme.

Chanan

Low Voltage Switchgear

Always for your safety

Low Voltage Withdrawable Switchgear

Product Summary

CAMNS low Voltage withdrawable type switchgear is used for conversion, distribution and control of electrical energy of power distribution equipment of AC 50~60Hz, 400V. It is mainly used in airports, power plants, substations, petrochemical plants, metallurgic plants, steel plants, transportation energy, light textile and residential districts, high–rise buildings, etc.The switchgear conforms to IEC439, GB/T7251.1 and other professional standard. It uses standard module design, and it can respectively form standard units–suchas protection,operation,conversion, control, regulation, determination and indication. Over 200 types of assembly parts can form frame structures of different schemes, and form fixed separation or drawer units. The users can select assemblies arbitrarily according their demands.

Environmental Conditions

1.Installation Site: Indoor
2.Altitude: No more than 2000m.
3.Earthquake Intensity: No more than 8 degrees.
4.Ambient Temperature: No more than +40℃ and no less than –15℃.Average temperature is no more than +35℃ within 24 hours.
5.Relative Humidity: the average daily value is no more than 95%, the average monthly value is no more than 90%.
6.Installation locations: without fire, explosion danger, serious pollution, chemical corrosion and violent vibration.

Low Voltage Withdrawable Switchgear

Product Features

1.The operation of drawer is combined with the control handle. It has simplified the operation, and overcome the shortcomings that the operation of traditional MNS cabinet is complicated.
2.The MCC unit has a lot of combinations, with compact structure. The cabinet body can share busbars, which are arranged back to back. A maximum of 36 loops can be assembled for each cabinet.
3.The cabinet body can be arranged back to back or against the wall, which can save installation space.
4.All of the standard components are selected to facilitate the design of engineering designers.
5.The whole series is standardized, the structure is versatile and the assembly is flexible.
6.It can accommodate more units in a cabinet, and it can be freely combined into different types, such as fixed type and drawer type. The same specification drawer unit can be exchanged conveniently.
7.The combination performance is stable and the earth continuity is good.
8.The device has a high continuity and reliability.
9.The product has passed the aseismic, salt fog and EMC electromagnetic compatibility test, and the operation is safe and reliable.

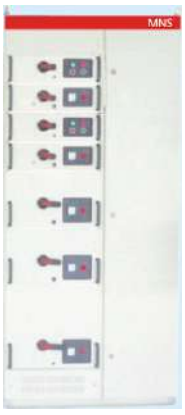
Technical Parameters

Sr.	Content		Unit	Value
1	Rated Operational Voltage		V	400
2	Rated Insulation Voltage		V	690
3	Rated Frequency		Hz	50/60
4	Main Bus–Bar	Rated Current	A	≤6300
		Rated short time withstand current(1S)	kA	≤100
		Rated Peak Withstand Current	kA	≤220
5	Distribution Bus	Rated Current	A	≤1300
		Rated short time withstand current(1S)	kA	≤50
		Rated Peak Withstand Current	kA	≤105
6	Frequency Withstand Voltage in 1 min of Aux Control Loop		kV	2
7	Rated Impulse Withstand Voltage		kV	8
8	Degrees of Protection		IP	IP40
9	Electrical Clearance		mm	≥10
10	Creepage Distance		mm	≥12.5
11	Overvoltage Level		–	Ⅲ /Ⅳ
12	Pollution Degree		–	3

Schematic Diagram of Structure

Incoming cabinet, Bus tie cabinet

Outgoing cabinet



Outgoing cabinet

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Prefabricated Substations

Always for your safety

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℃ and no less than –45℃.
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≤0.3g, Vertical Acceleration≤0.15g.
5.Installation Location: Well–ventilation, chemical corrosion and violent vibration for product installed place. Vertical slope of less than 3 degrees.

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.

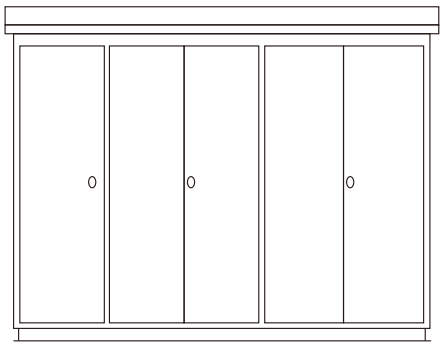
4.It is convenient to operate and maintain. Each compartment has automatic lighting device, transformer compartment has track and cart, convenient for transformer installation, maintenance and replacement. The M.T and L.T compartments adopt front wiring and front maintenance.

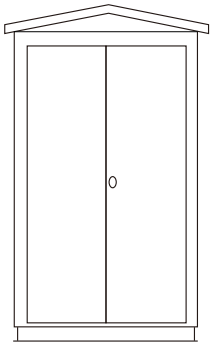
5.The appearance is beautiful and durable. The cabinet shell is made of high performance marine zinc rich epoxy primer and epoxy anticorrosive mortar, which has good anticorrosive property, and the surface color can be configured arbitrarily with the environment. All electrical installations are all galvanized, and it adopts a special anti blocking and anti rust universal lock.

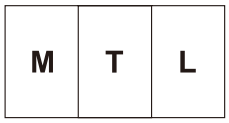
Technical Parameters

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

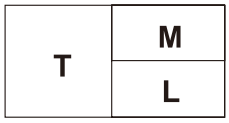




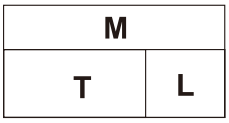


Layout 1

M–T.Compartment
T–Transformer Compartment
L–T.Compartment



Layout 2



Layout 3

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Transmission Line Products

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12kV–15kV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power–frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
HV–1	15	100	10000	110	40	250	7.3	38.5x34.5 x10.5
	15	200	12000	110	40	250	7.3	

15kV–27kV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power–frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
HV–7	15	100	10000	125	45	350	8.5	48x34.5 x10.5
	15	200	12000	125	45	350	8.5	

24kV–27kV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power–frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
HV–13	24	100	8000	150	65	540	12	49x35 x14
	24	200	10000	150	65	540	12	

27kV–33kV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power–frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
HV–21	30	100	6000	170	70	700	15	56x38 x14.5
	30	200	8000	170	70	700	15	

33kV–36kV

Type	Rated voltage (kV)	Rated current (A)	Breaking current	Impulse voltage (BIL)	Power–frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
HV–22	33	100	10000	170	70	720	15.5	57x38 x14.5
	33	200	12000	170	70	720	15.5	

12kV–15kV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power–frequency withstand voltage	Leakage distance (mm)
HV–26	12–15	100	10000	110	40	380
	12–15	200	12000	110	40	380

24kV–27kV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power–frequency withstand voltage	Leakage distance (mm)
HV–29	24–27	100	6000	150	65	650
	24–27	200	8000	150	65	650

27kV–33kV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power–frequency withstand voltage	Leakage distance (mm)
HV–32	27–33	100	6000	170	70	620
	27–33	200	8000	170	70	620

30kV–33kV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power–frequency withstand voltage	Leakage distance (mm)
HV–33	30–33	100	6000	170	70	680
	30–33	200	8000	170	70	680

36kV–38kV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power–frequency withstand voltage	Leakage distance (mm)
HV–34	36–38	100	6000	180	75	820
	36–38	200	8000	180	75	820

Long Rod Suspension Composite Insulator

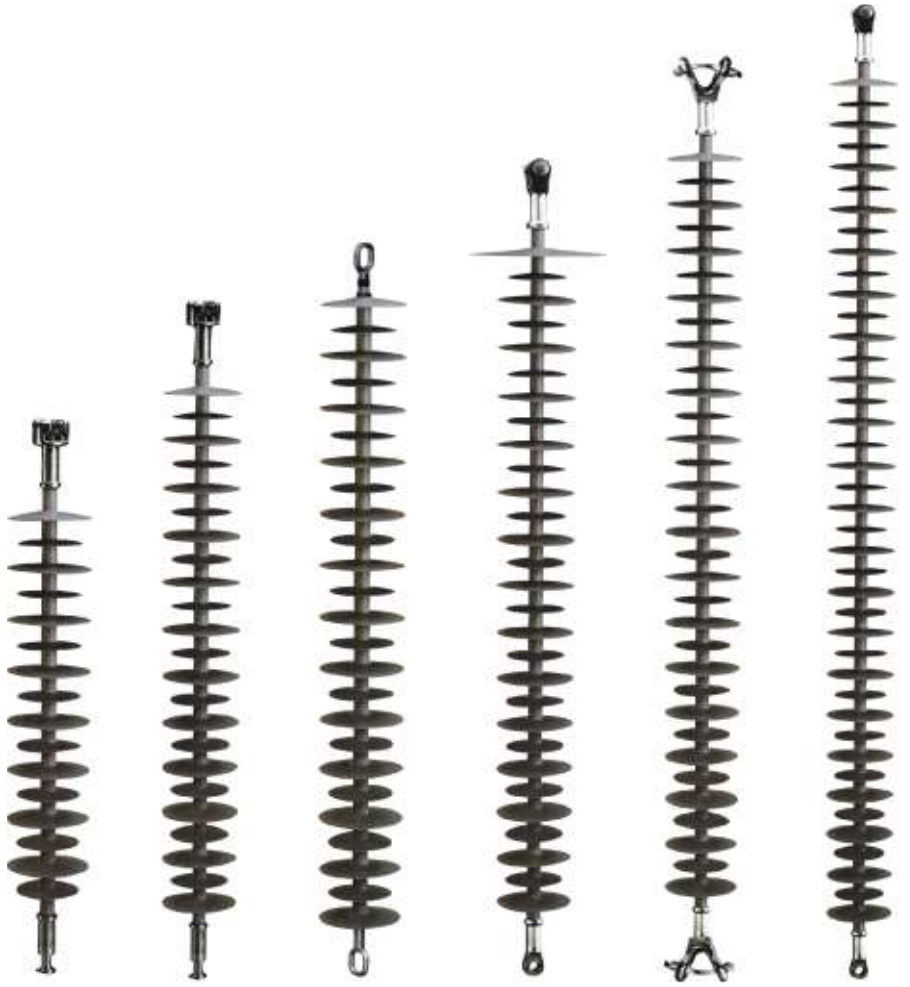
12KV–01 24KV–02 36KV–03 36KV–04 24KV–05 12KV–06

Type	Rated voltage (KV)	Specified mechanical load	Section length (mm)	Min Arc distance (mm)	Leakage distance (mm)	Lightning impulse withstand BIL(KV)	Power frequency withstand (wet) (KV)
FXBW4–12/70	12	70	350	180	400	95	45
FXBW4–24/70	24	70	550	370	850	185	95
FXBW4–24/100	24	100	570	370	850	185	95
FXBW4–35/70	36	70	650	450	1000	230	105
FXBW4–35/100	36	100	670	450	1000	230	105

12KV–07 24KV–08 36KV–09 36KV–10 24KV–11 12KV–12

Type	Rated voltage (KV)	Specified mechanical load	Section length (mm)	Min Arc distance (mm)	Leakage distance (mm)	Lightning impulse withstand BIL(KV)	Power frequency withstand (wet) (KV)
FXYW4–12/70	12	70	350	180	400	95	45
FXYW4–24/70	24	70	550	370	850	185	95
FXYW4–24/100	24	100	570	370	850	185	95
FXYW4–35/70	36	70	650	450	1000	230	105
FXYW4–35/100	36	100	670	450	1000	230	105

Long Rod Suspension Composite Insulator



66KV–01 110KV–02 145KV–03 220KV–04 330KV–05 500KV–06

Type	Rated voltage (KV)	Specified mechanical load	Section length (mm)	Min Arc distance (mm)	Leakage distance (mm)	Lightning impulse withstand BIL(KV)	Power frequency withstand (wet) (KV)
FPBW4–66/70	66	70	900	710	1980	410	185
FPBW4–66/100	66	100	940	710	1980	410	185
FPBW4–110/100	110	100	1240	1000	3315	550	230
FPBW4–145/120	145	120	1480	1240	4123	725	355
FPBW4–220/100	220	100	2240	1900	6300	1000	395
FPBW4–220/160	220	160	2240	1900	6300	100	395
FPBW4–330/100	330	100	2990	2600	9075	1425	570
FPBW4–330/160	330	160	2990	2600	9075	1425	570
FPBW4–500/160	500	160	4080	3730	12750	2250	740

Pin Composite Insulator

12KV–02　24KV–02　36KV–03　66KV–04　110KV–05　220KV–06

Type	Rated voltage (KV)	Specified mechanical load	Section length (mm)	Min Arc distance (mm)	Leakage distance (mm)	Lightning impulse withstand BIL(KV)	Power frequency withstand (wet) (KV)
FZSW–12/4	12	4	215	290	100/90	75	42
FZSW–24/8	24	8	400	750	142	150	65
FZSW–36/6	36	6	450	946	148/118	185	95
FZSW–66/6	66	6	760	1886	160/130	410	185
FZSW–66/8	66	8	760	2010	220/190	410	185
FZSW–110/10	110	10	1220	3530	220/190	500	230
FZSW–220/10	220	10	2440	7060	220/190	1000	395

Pin Composite Insulator

12KV–01 24KV–02 36KV–03 66KV–04 110KV–05 220KV–06

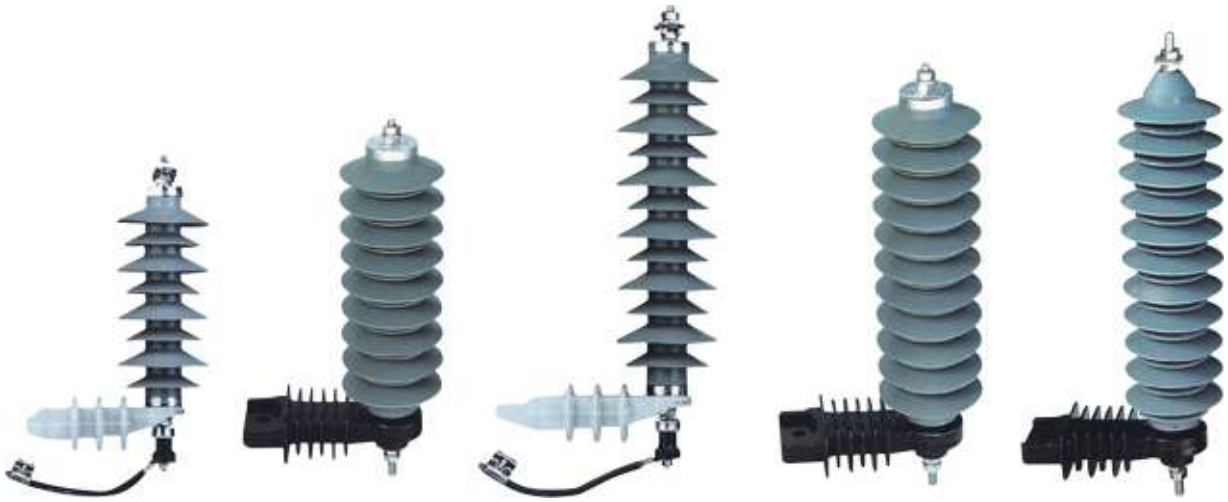
Type	Rated voltage (KV)	Specified mechanical load	Section length (mm)	Min Arc distance (mm)	Leakage distance (mm)	Lightning impulse withstand BIL(KV)	Power frequency withstand (wet) (KV)
FZSW–12/4	12	4	215	290	100/90	75	42
FZSW–24/8	24	8	400	750	142	150	65
FZSW–36/6	36	6	450	946	148/118	185	95
FZSW–66/6	66	6	760	1886	160/130	410	185
FZSW–66/8	66	8	760	2010	220/190	410	185
FZSW–110/10	110	10	1220	3530	220/190	500	230
FZSW–220/10	220	10	2440	7060	220/190	1000	395

Polymeric Housed Metal-oxide Surge Arrester Without Gaps Nominal Discharge Current 5kA(3-36kV)

12kV 15kV 22kV 24kV

Type	MOA Rated voltage	MCOV	Current impulse Residual Voltage			2ms Rectangular current impulse withstand	4/10 μ s High current impulse withstand
			1/4 μ s Lightning current impulse	8/20 μ s Lightning current impulse	30/60 μ s Switching current impulse		
	kV(rms)	kV(rms)	kV(crest)	kV(crest)	kV(crest)	A(crest)	kA(crest)
CA5W-3	3	2.55	11.3	9	8.9	150	65
CA5W-6	6	5.1	22.6	18	16.8	150	65
CA5W-9	9	7.65	33.7	27	23.8	150	65
CA5W-10	10	8.4	36	30	23	150	65
CA5W-11	11	9.4	40	33	30	150	65
CA5W-12	12	10.2	42.2	36	27	150	65
CA5W-15	15	12.7	51	45	38.5	150	65
CA5W-18	18	15.3	61.5	54	46.2	150	65
CA5W-21	21	17.0	71.8	63	54.2	150	65
CA5W-24	24	19.5	82	72	62	150	65
CA5W-27	27	22.0	92	81	69.8	150	65
CA5W-30	30	24.4	102	90	79	150	65
CA5W-33	33	27.5	112	99	86.7	150	65
CA5W-36	36	29.0	123	108	92.4	150	65

Polymeric Housed Metal-oxide Surge Arrester Without GAPS Nominal Discharge Current 10kA(3-36kV)



24kV 30kV 33kV 36kV 36kV

Type	MOA Rated voltage	MCOV	Current impulse residual voltage			2ms Rectangular current impulse withstand	4/10 μ s High current impulse withstand
			1/4 μs Lightning current impulse	8/20 μ s Lightning current impulse	30/60 μ s Switching current impulse		
	kV(rms)	kV(rms)	kV(crest)	kV(crest)	kV(crest)	A(crest)	kA(crest)
CA10W-3	3	2.55	11.3	9	8.9	250	100
CA10W-6	6	5.1	22.6	18	16.8	250	100
CA10W-9	9	7.65	33.7	27	23.8	250	100
CA10W-10	10	8.4	36	30	23	250	100
CA10W-11	11	9.4	40	33	30	250	100
CA10W-12	12	10.2	42.2	36	27	250	100
CA10W-15	15	12.7	51	45	38.5	250	100
CA10W-18	18	15.3	61.5	54	46.2	250	100
CA10W-21	21	17.0	71.8	63	54.2	250	100
CA10W-24	24	19.5	82	72	62	250	100
CA10W-27	27	22.0	92	81	69.8	250	100
CA10W-30	30	24.4	102	90	79	250	100
CA10W-33	33	27.5	112	99	86.7	250	100
CA10W-36	36	29.0	123	108	92.4	250	100

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Indoor Voltage Vacuum Circuit Breaker

Always for your safety

Indoor Medium Voltage Vacuum Circuit Breaker

Product Summary

ZN63 (VS1) –12 vacuum circuit breaker is suitable for three phase AC 50Hz and rated voltage 3.6kV to 12kV power system, as control and protection of industrial and mining enterprises, power plants and substations, and suitable for frequent operation occasions. It has perfect mechanical and electrical interlocking function, which is suitable for the main medium voltage switchgear in the market. The product is excellent in performance, widely used in industrial chemical industry, metallurgy, construction industry, manufacturing industry, civil residential district, hospital, enterprise power distribution, transportation, subway, high–speed railway and so on.

Environmental Conditions

1.Ambient Temperature: No more than +40℃ and no less than –15℃.Average temperature is no more than +35℃ within 24 hours.
2.Altitude: No more than 1000m.
3.Relative Humidity: the average daily value is no more than 95%, the average monthly value is no more than 90%.
4.Earthquake Intensity: No more than 8 degrees.
5.Vapor pressure: average daily value is no more than 2.2kPa, average monthly value is no more than 1.8kPa.
6.Installation locations without fire, explosion danger, serious pollution, chemical corrosion and violent vibration.

Indoor Medium Voltage Vacuum Circuit Breaker

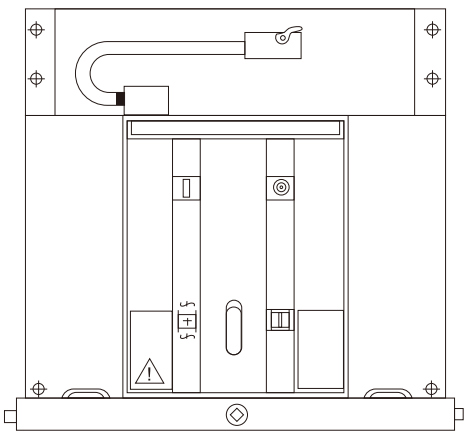
Product Features

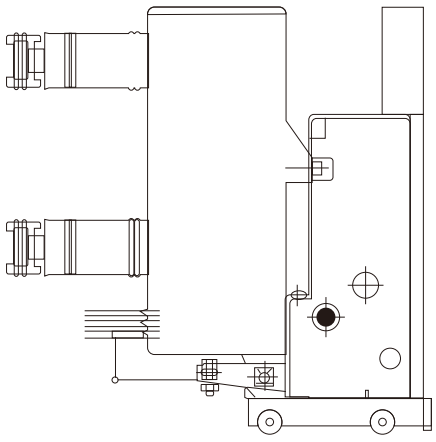
1.The product adopts a composite insulation technology and combines with an integrated spring operating mechanism to ensure stable electrical and mechanical performance.
2.It can be used as a fixed installation unit, and also equipped with a special propulsion mechanism to form a handcart unit.
3.The structure is versatile and can match all the mainstream medium voltage switchgear in the market.

Technical Parameters

Sr.	Content		Unit	Value			
1	Rated Voltage		kV	12			
2	Rated Frequency		Hz	50/60			
3	Rated Insulation Level	Power Frequency Withstand Voltage in 1 min	kV	42			
		Lightning Impulse Withstand Voltage(Peak)		75			
4	Rated Short-circuit Breaking Current		kA	20	25	31.5	40
5	Rated Current		A	630	630 1250	1250、1600 2000、2500 3150	1250、1600 2000、2500 3150、4000
6	Rated Short-time Withstand Current		kA	20	25	31.5	40
7	Rated Peak Withstand Current			50	63	80	100
8	Rated Short Circuit Making Current			50	63	80	100
9	Opening time		ms	20-50			
10	Closing time		ms	35-70			
11	Mechanical Life		times	10000			
12	Rated Voltage of Aux Control Loop		V	AC110/220 DC110/220			

Appearance





Indoor Medium Voltage Vacuum Circuit Breaker

Product Summary

The VCA–12 type vacuum circuit breaker is suitable for three phase AC 50Hz and rated voltage 3.6kV to 12kV power system, as control and protection of industrial and mining enterprises, power plants and substations, and suitable for frequent operation occasions. It has perfect mechanical and electrical interlocking function, which is suitable for the main medium voltage switchgear in the market.The product is excellent in performance, widely used in industrial chemical industry, metallurgy, construction industry, manufacturing industry, civil residential district, hospital, enterprise power distribution, transportation, subway, high–speed railway and so on.

Environmental Conditions

1.Ambient Temperature: No more than +40℃ and no less than –15℃.Average temperature is no more than +35℃ within 24 hours.
2.Altitude: No more than 1000m.
3.Relative Humidity: the average daily value is no more than 95%, the average monthly value is no more than 90%.
4.Earthquake Intensity: No more than 8 degrees.
5.Vapor pressure: average daily value is no more than 2.2kPa, average monthly value is no more than 1.8kPa.
6.Installation locations without fire, explosion danger, serious pollution, chemical corrosion and violent vibration.

Indoor Medium Voltage Vacuum Circuit Breaker

Product Features

1.The product adopts a solid sealing insulation technology which can effectively protect the VCB interrupter from impact and collision, and has strong anti pollution ability, especially for harsh environment. It combines with an integrated spring operating mechanism to ensure stable electrical and mechanical performance.

2.It can be used as a fixed installation unit, and also equipped with a special propulsion mechanism to form a handcart unit.

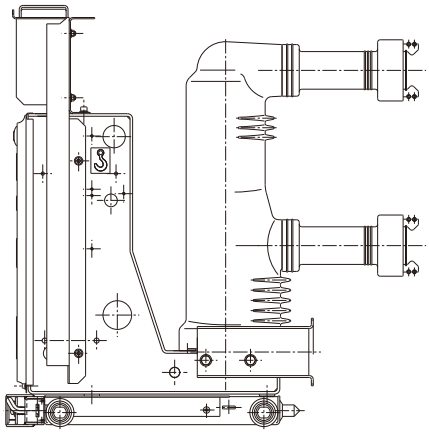
3.The structure is versatile and can match all the mainstream medium voltage switchgear in the market.

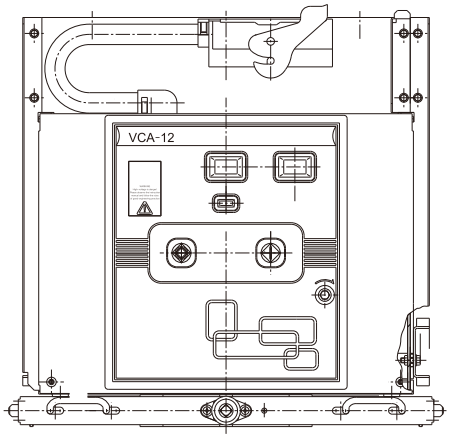
Technical Parameters

Sr.	Content		Unit	Value			
1	Rated Voltage		kV	12			
2	Rated Frequency		Hz	50/60			
3	Rated Insulation Level	Power Frequency Withstand Voltage in 1 min	kV	42			
		Lightning Impulse Withstand Voltage(Peak)		75			
4	Rated Short-circuit Breaking Current		kA	20	25	31.5	40
5	Rated Current		A	630	630 1250	1250、1600 2000、2500 3150	1250、1600 2000、2500 3150、4000
6	Rated Short-time Withstand Current		kA	20	25	31.5	40
7	Rated Peak Withstand Current			50	63	80	100
8	Rated Short Circuit Making Current			50	63	80	100
9	Opening time		ms	20-50			
10	Closing time		ms	35-70			
11	Mechanical Life		times	10000			
12	Rated Voltage of Aux Control Loop		V	AC110/220 DC110/220			

Note:1.The rated short circuit breaking current of product with rated current 4000A could be 50KA.

Appearance





Chanan

Outdoor Voltage Vacuum Circuit Breaker

Always for your safety

Outdoor Medium Voltage Vacuum Circuit Breaker

General Description

ZW20–12 series outdoor medium voltage vacuum circuit breaker is an outdoor power distribution equipment with rated voltage of 12kV and three–phase AC of 50/60Hz.It is mainly used for breaking and closing load current, overload current and short circuit current in power system. It is suitable for protection and control in substation, rural power grid and distribution system of industrial and mining enterprises.

The main circuit of the product is sealed in the shell with protection grade up to IP67, and SF6 gas is used as the insulation medium, so the insulation performance is highly reliable.

Type And Meanings

1.Ambient Temperature: No more than +40℃ and no less than –40℃.Average temperature is no more than +35℃ within 24 hours.

2.Altitude: No more than 1000m.

3.Relative Humidity: the average daily value is no more than 95%, the average monthly value is no more than 90%.

4.Earthquake intensity: No more than 8 degrees Wind pressure： No more than 700Pa

5.Vapor pressure: average daily value is no more than 2.2kPa, average monthly value is no more than 1.8kPa.

6.Installation locations without fire, explosion danger, serious pollution, chemical corrosion and violent vibration.

Outdoor Medium Voltage Vacuum Circuit Breaker

Product Features

1.It can be hoisted on the pole or installed on the seat, which is flexible and convenient to install;

2.The main circuit of the circuit breaker is sealed in SF6 gas (zero gauge pressure), which is not affected by external environment, with stable and reliable performance and maintenance free;

3.Fluid silicone rubber bushing is adopted, with excellent external insulation performance;

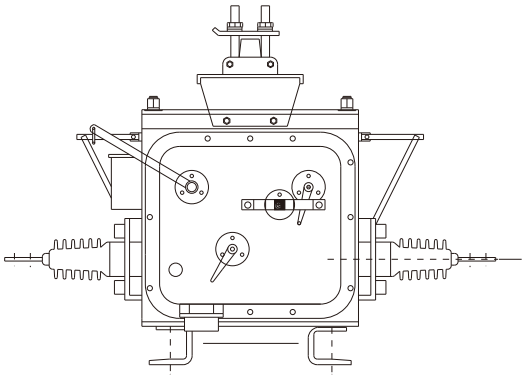
4.An explosion-proof device is installed on the top of the box, which can effectively block the escape of objects in case of switch failure, so it is safe and reliable to use;

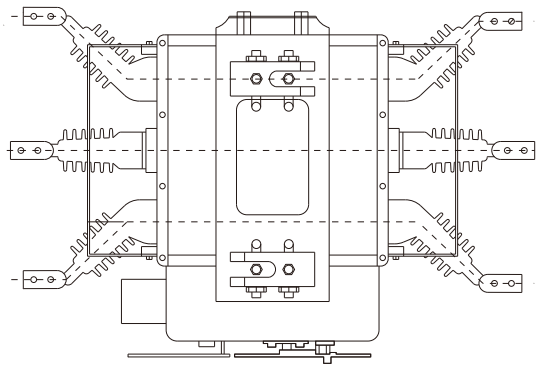
5.It can be equipped with control terminal interface, which is suitable for automatic distribution network and unattended substation.

Technical Parameters

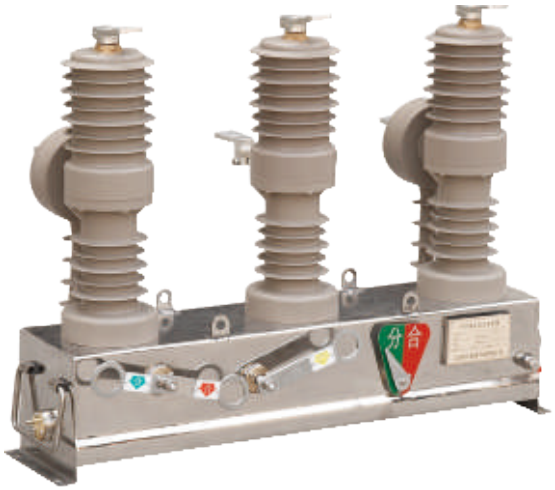
Sr.	Content		Unit	Value	
1	Rated Voltage		kV	12	
2	Rated Frequency		Hz	50/60	
3	Rated Insulation Level	Power Frequency Withstand Voltage in 1 min	kV	42	
		Lightning Impulse Withstand Voltage(Peak)		75	
4	Rated Short-circuit Breaking Current		kA	20	25
5	Rated Current		A	630	
6	Rated Short-time Withstand Current		kA	20	25
7	Rated Peak Withstand Current			50	63
8	Rated Short Circuit Making Current			50	63
9	Opening time		ms	20-50	
10	Closing time		ms	35-70	
11	mechanical life		times	30000 / 3000 (circuit breaker / disconnector)	
12	Operation mode			Manual/Electric	

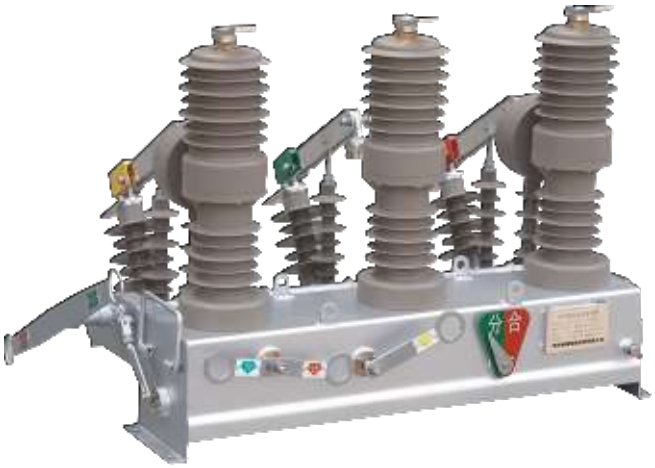
Schematic Diagram of Structure





Outdoor Vacuum Circuit Breaker





General Description

ZW32–12(G) series column type outdoor M.V.vacuum circuit breaker is an outdoor M.V.switch equipment with tri–phase AC 50Hz,rated voltage 12KV.it is suitable for breaking,closing load current,overload current and short–circuit current of the urban or the rural electrical power distribution system.

ZW32–12G circuit breaker isolator combination electric appliance match with isolation blade has evident fracture to increase safety.

Type And Meanings

C Z W 32 – 12 G / 630 – 20

- 20 — Rated Short Circuit Breaking Current(ka)
- 630 — Rated Current (a)
- G — Disconnector
- 12 — Rated Voltage(kv)
- 32 — Serial Number
- W — Outdoor
- Z — Vacuum Circuit Breaker
- C — Company Code

Outdoor Vacuum Circuit Breaker

Main Technical Parameter

Item		Unit	CZW32-12(G) /400-12.5	CZW32-12(G) /630-16	CZW32-12(G) /630-20
Rated voltage		KV	12		
Rated current		A	400	630	630
Rated short circuit breaking current		kA	12.5	16	20
Rated short circuit making current (peak)			31.5	40	50
Rated peak withstand current			31.5	40	50
Rated short time withstand current			12.5	16	20
Rated short circuit duration		S	4		
Rated insulation level	1 min power frequency withstand voltage	KV	phase to phase,to ground 42;fracture 48		
	Lightning impulse withstand voltage(peak)		phase to phase,to ground 75;fracture 85		
Rated sequence of operations			O-0.3s-CO-180s-CO		
Rated short circuit current breaking time		time	30		
Mechanical life			10000		
Rated operation voltage (opening,closing coil)		V	DC220,110;AC220		
Allowable attrition thickness of moving and fixed contact		mm	3		
Over-current release rated current			5		
Current transformer ratio			200/5 400/5 600/5		
Clearance between open contacts		mm	9±1		
Contact over travel			2±0.5		
Average opening speed		m/s	1.2±0.3		
Average closing speed			0.6±0.2		
Opening time		ms	30~60		
Closing time			20~40		
Closing bounce time			≤2		
Tri-phase opening and closing synchronous			≤2		
Each phase loop DC resistance		μ Ω	≤80		
Stored energy motor	Rated voltage	V	-220		
	Rated power	W	200		
	Stored energy time	S	≤8		
Weight		Kg	85,125(with G)		

Outdoor Vacuum Circuit Breaker

Outline And Installation Dimensions

1.Upper outgoing line
2.Vacuum interrupter
3.Insulation tube
4.Lower outgoing line
5.Conductive clamp
6.Soft-link
7.Insulation lever
8.Contact pressure spring
9.Opening spring
10.Driving plate
11.Mechanism output shaf
12.Operating mechanism
13.Mechanism box
14.Current transformer

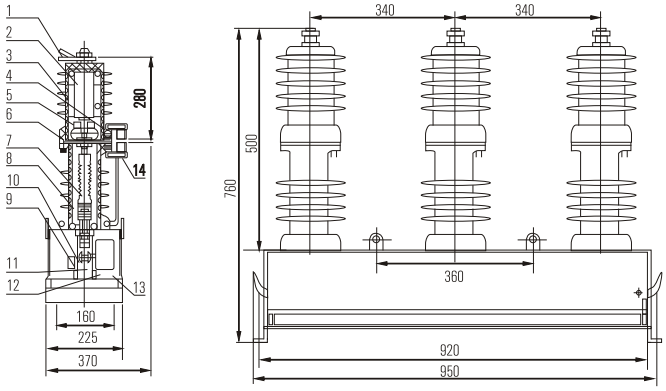


Fig.1 CZW32-12 outline dimension

1.Isolating operating handle
2.Isolating main shaft
3.Manual O-C handle of C.B
4.Energy-storage handle of C.B
5.O-C indication
6.Outer adjusting box of composite surge controller
7.wiring bos of C.B.
8.Insulation
9.Insulation lever
10.Insulation frame
11.Nameplate
12.Insulating unit
13.fasten copper nut
14.wiring plate(outgoing-line end)
15.current transformer
16.Isolating blade
17.wiring plate (incoming-line end)

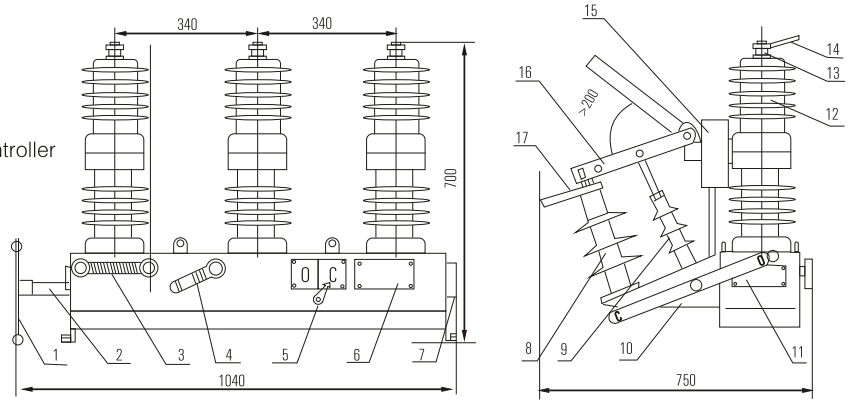


Fig.2 CZW32-12G outline dimension

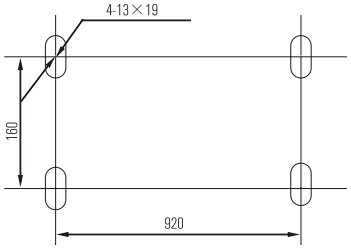
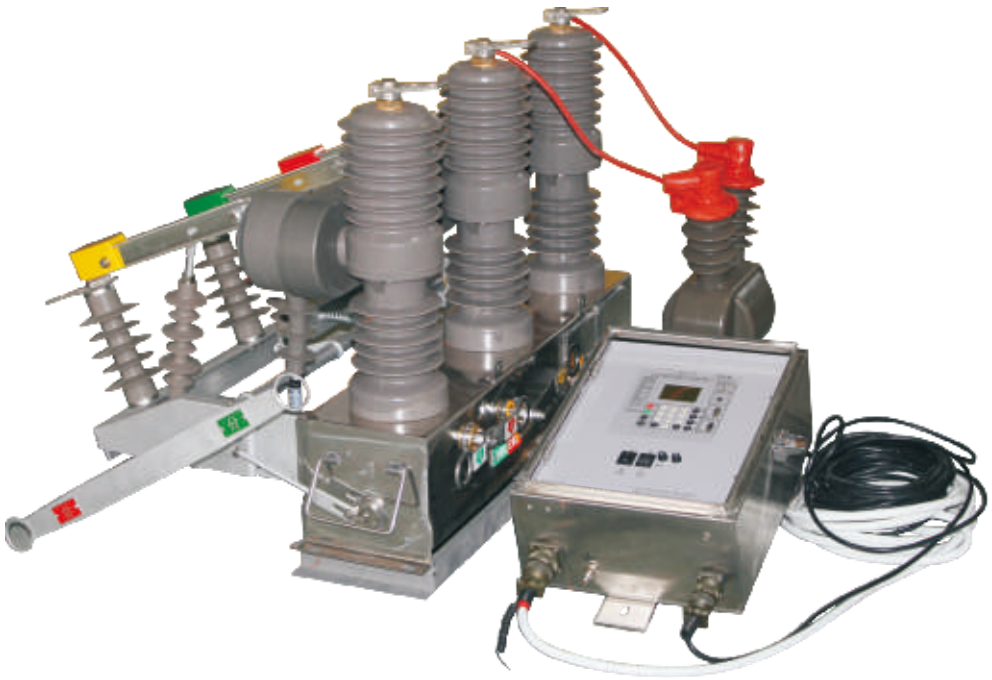


Fig.3 CZW32-12(G) installation hole dimension

Voltage Transformer And Recloser



Product Summary

ZW32–12C type outdoor M.V.vacuum automatic recloser is used in tri–phase distributed power system of AC 50Hz,voltage 12kV.it can automatically breaking and reclosing operation in AC lines according to preconcerted breaking and reclosing order,and then automatically restore,or lock M.V.switch equipment with control and protection function used with sectionalizer.it can realize distribution automatically without another control system.the system can rapidly subsection and isolate fault,reduce the range of power of power cut to least.it is the reasonable equipment for transforming urban and rural net,can be matched with isolating switch according to customers.

This circuit breaker should match with voltage transformer.

Type And Meanings

C Z W 32–12 G C /630–□

- Rated Short Circuit Breaking Current(kA)
- Rated Current (A)
- Recloser
- Isolating Blade
- Rated Voltage(kV)
- Serial Number
- Outdoor
- Vacuum Circuit Breaker
- Company Code

Voltage Transformer And Recloser

Main Technical Parameter

Item			Unit	Data
Rated voltage			KV	12
Rated insulation level	Lightning impulse withstand voltage(peak)			75
	1 min power frequency withstand voltage	Dry-type		42
		Wet-type		34
Rated current			A	200 400 630
Rated short circuit breaking current			kA	12.5 16 20
Rated operating sequence				O-0.3s-CO-180s-CO
Rated short circuit current breaking time			time	30
Rated short circuit making current (peak)			kA	50
Rated peak withstand current				50
Rated short time withstand current				12.5 16 20
Rated short circuit duration			s	4
Opening Time Under Rated Operation Voltage			ms	15~50
Closing time				25~50
Mechanical life time			time	10000
Rated Operation Voltage & Rated Control Voltage Of Auxiliary Circuit			V	~220 ~110 ~24
Energy-stored TimeUnder Rated Voltage			s	<10
CT	Ratio		A	()/5
	Capacity		VA	15
PT	Output Voltage		V	~220 ~110 ~24
	Capacity		VA	600
Over Current Adjust			A	2~10
Delay Time			ms	40~850
Fast-break Current			A	18
Remote-control Distance			m	30
Rated Input Power Of Energy-stored Motor			W	40

Outline And Installation Dimensions

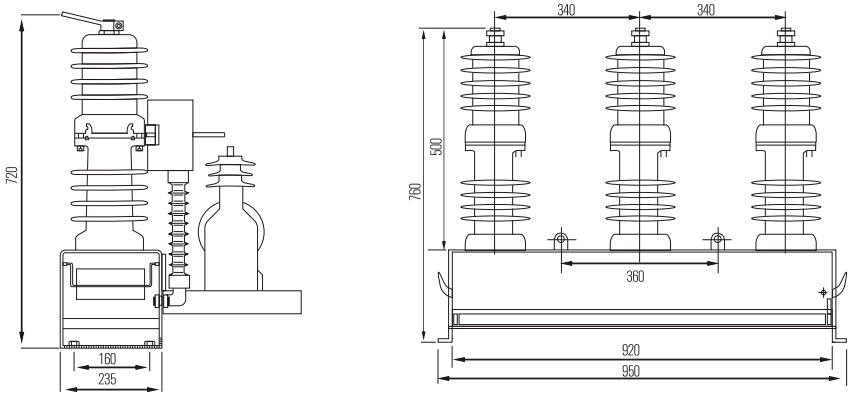


Fig.1 CZW32-12C outlinedimension

Voltage Transformer And Recloser

Outline And Installation Dimensions

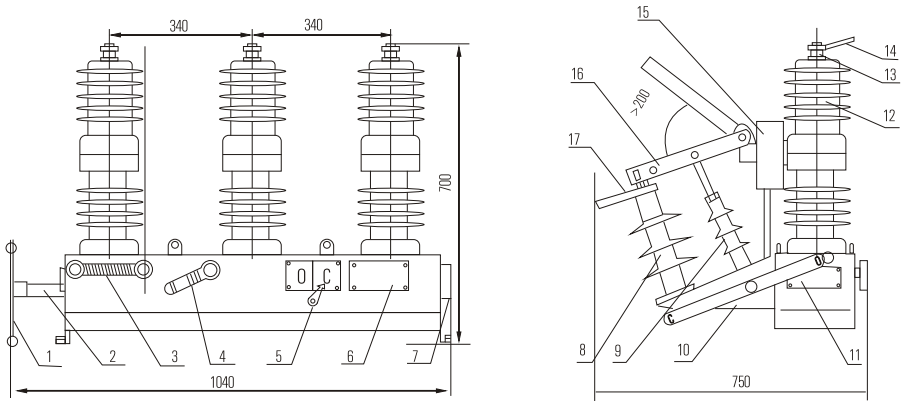


Fig.2 CZW32–12GC outline dimension

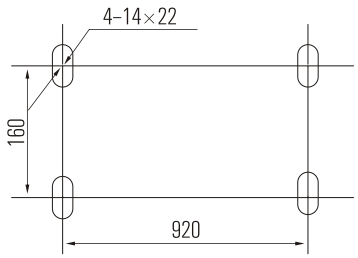


Fig.3 CZW32–12(G)C installation hole dimension

1.Isolating operating handle
2.Isolating main shaft
3.Manual O–C handle of C.B
4.Energy–storage handle of C.B
5.O–C indication
6.Outer adjusting box of composite surge controller
7.Wiring bos of C.B.
8.Insulation
9.Insulation lever
10.Insulation frame
11.Nameplate
12.Insulating unit
13.Fasten copper nut
14.Wiring plate(outgoing–line end)
15.Current transformer
16.Isolating blade
17.Wiring plate (incoming–line end)

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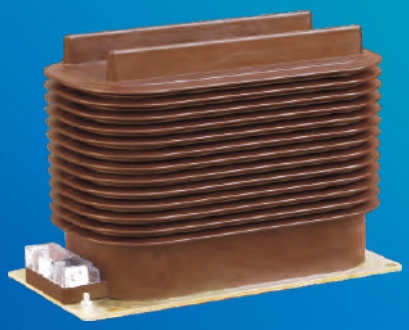
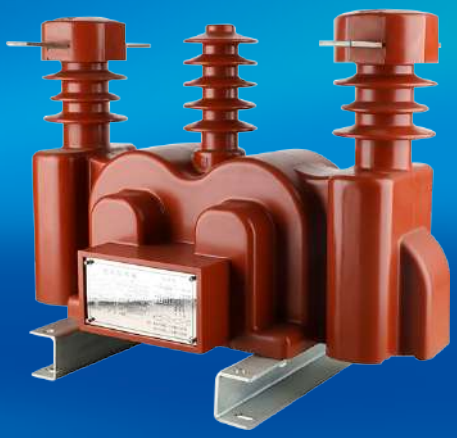
Current & Voltage Transformer

Always for your safety





Current Transformer

12kV Indoor Single–Phase Epoxy Resin Casting Type

Type Description

L Z Z B J 9–10 A1(A2)

- Structure code
- Rated voltage
- Design number
- Extension type
- With protective class
- Casting insulation
- Support type
- Current transformer

Technical Data

Rated insulation level:	12/42/75kV
Rated frequency:	50/60Hz
Installation site:	Indoor
Technical standard:	GB1208–2006 IEC 60044–1:2003

Specification

1: Two secondary single ratio

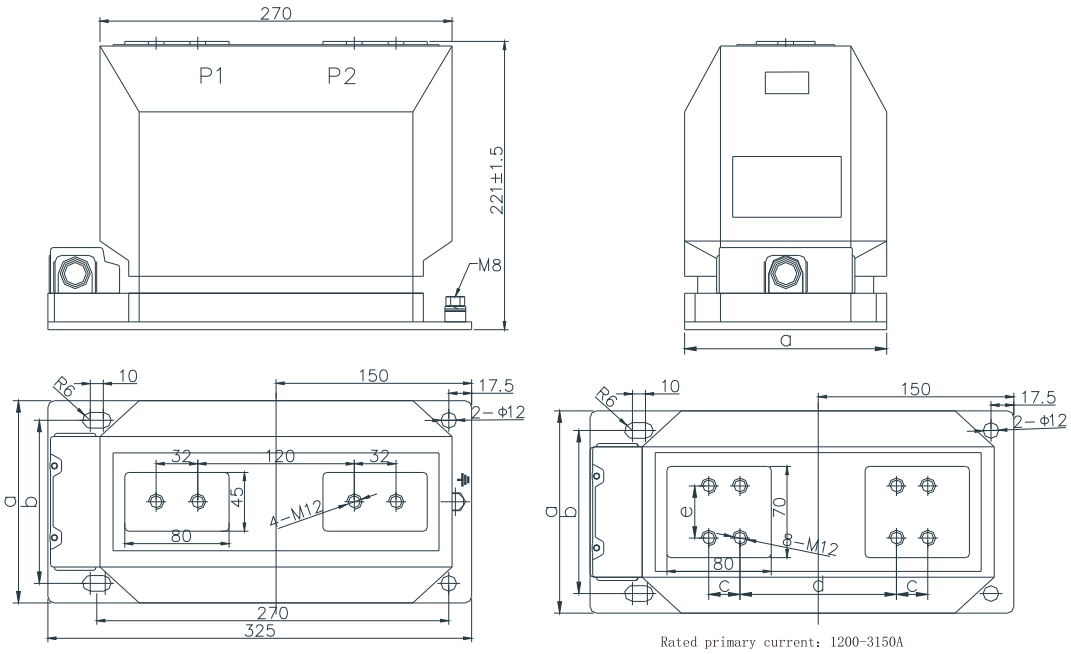
Rated transformation ratio(A)	Accuary classes combination	Rated output			(ALF)	(FS)	Short–time thermal current Ith(kA/S)	Rated dynamic current Idyn(kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
10–200/5	0.2(S)/0.2(S) 0.2(S)/0.5 0.2(S)/10P 0.5/10P 0.2S/0.5/10P 0.2/0.5/10P	10 15	15	15	10 15 20	5 (10)	150I1n	375I1n
300/5							31.5	80
400/5							31.5	80
500/5							40	100
600/5							50	125
800/5				20			63	125
1000/5							80	160
1200 ~ 1500/5							80	160
1500 ~ 2000/5							100	160
2000 ~ 3150/5							130	160

Current Transformer

2: Three secondary single ratio

Rated transformation ratio(A)	Accuary classes combination	Rated output			(ALF)	(FS)	Short–time thermal current Ith(kA/S)	Rated dynamic current Idyn(kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
10–200/5	0.2S//0.5/ 10P 0.5/0.5/10P	10 15	15	15 20	10 15	5 (10)	150In	375In
300/5							31.5	80
400/5							31.5	80
500/5							40	100
600/5							50	125
800/5							63	125
1000/5							80	160
1200 ~ 1500/5							80	160
1500 ~ 2000/5							100	160
2000 ~ 3150/5							130	160

Outline Drawing



Rated primary current: 1200–3150A

Rated primary current		5–1000		1200–2500					3000–3150				
		a	b	a	b	c	d	e	a	b	c	d	e
	LZZBJ9–10A1	155	125	155	125	24	120	40	/	/	/	/	/
	LZZBJ9–10A2	175	145	175	145	24	120	40	175	145	40	100	50

Current Transformer

12kV Indoor Single–Phase Epoxy Resin Type

Type Description

L Z Z B J 9–10 C1、C2

- C1、C2 — Structure code
- 9–10 — Rated voltage
- J — Design number
- B — Extension type
- Z — With protective class
- Z — Casting insulation
- Z — Support type
- L — Current transformer

Technical Data

Rated insulation level:	12/42/75kV
Rated frequency:	50/60Hz
Installation site:	Indoor
Technical standard:	GB1208–2006 IEC 60044–1:2003

Specification

LZZBJ9–10C1 Single Ratio

Rated transformation ratio(A)	Accuary classes combination	Rated output			(ALF)	(FS)	Short–time thermal current Ith(kA/S)	Rated dynamic current Idyn(kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
10–200/5	0.2(S)/0.2(S) 0.2(S)/0.5 0.2(S)/10P 0.5/10P 0.2S/0.5/10P 0.2/0.5/10P	10 15	15	15	10 15 20	5 (10)	150I1n	375I1n
300/5							31.5	80
400/5							31.5	80
500/5							40	100
600/5							50	125
800/5				20			63	125
1000/5							80	160
1200 ~ 1500/5							100	160
1500 ~ 2000/5							100	160
2000 ~ 2500/5							130	160

Current Transformer

Specification

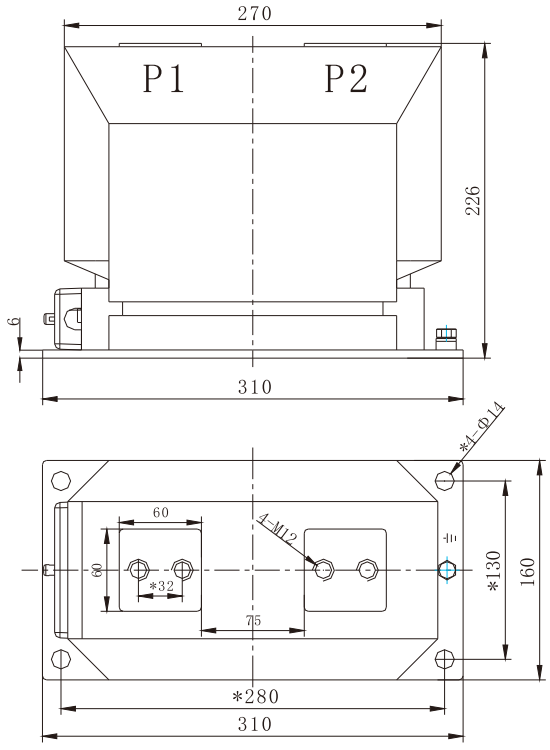
LZZBJ9–10C1 Double Ratio

Rated transformation ratio(A)	Accuary classes combination	COSΦ=0.8 Rated output			(ALF)	(FS)	Short–time thermal current Ith(kA/S)	Rated dynamic current Idyn(kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
10–20/5	0.2(S)/0.2(S) 0.2(S)/0.5 0.2(S)/10P 0.5/10P	10 15	15	15 20	10 15 20	5 (10)	1.5	3.75
20–40/5							3	7.5
50–100/5							8	20
100–200/5							15	37.5
200–400/5							30	75
400–800/5							63	130
500–1000/5							80	160

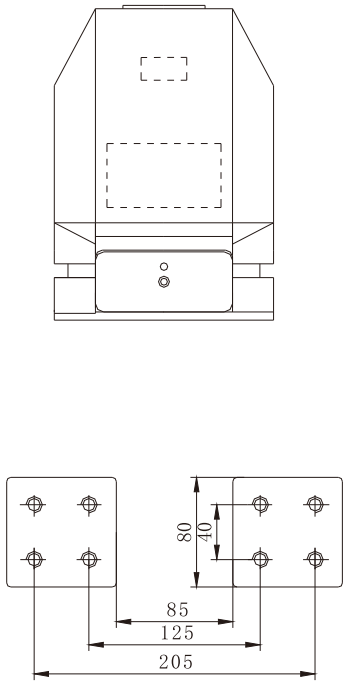
LZZBJ9–10C2

Rated transformation ratio(A)	Accuary classes combination	COSΦ=0.8 Rated output			(ALF)	(FS)	Short–time thermal current Ith(kA/S)	Rated dynamic current Idyn(kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
10~200/5	0.2(S)/0.2(S) 0.2(S)/0.5 0.2(S)/10P 0.5/10P 0.2S/0.5/10P 0.2/0.5/10P	10 15	15	15 20	10 15 20	5 (10)	150I1n	375I1n
300/5							31.5	80
400/5							31.5	80
500/5							40	100
600/5							50	125
800/5							63	125
1000/5							80	160
1200 ~ 1500/5							80	160
1500 ~ 2000/5							100	160
2000 ~ 2500/5							100	160
2500 ~ 3150/5							100	160

Current Transformer

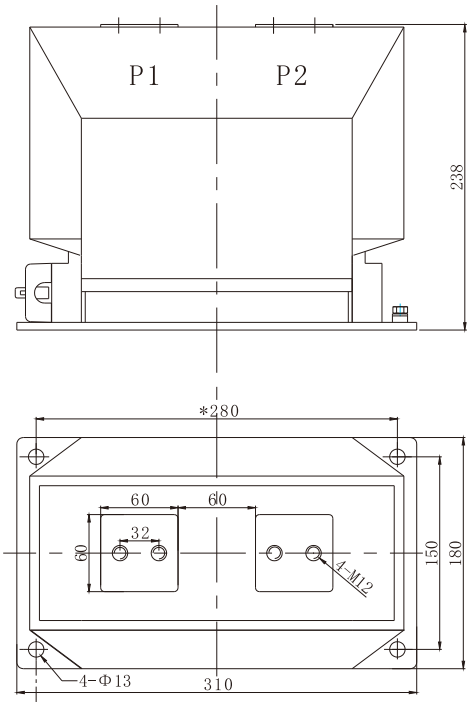


Rated Primary Current: 10~1000A

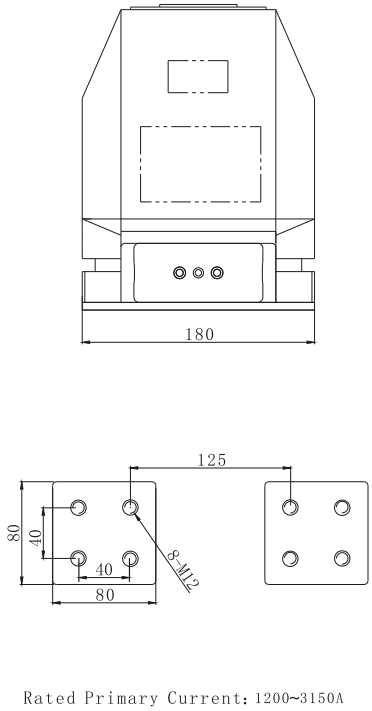


Rated Primary Current: 1200~2500A

LZZBJ9-10C1



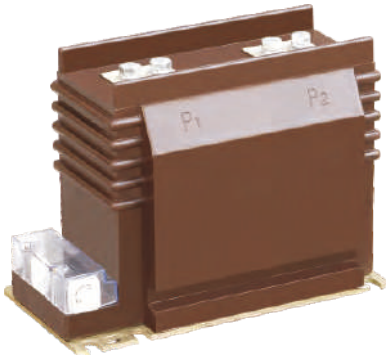
Rated Primary Current: 10~1000A

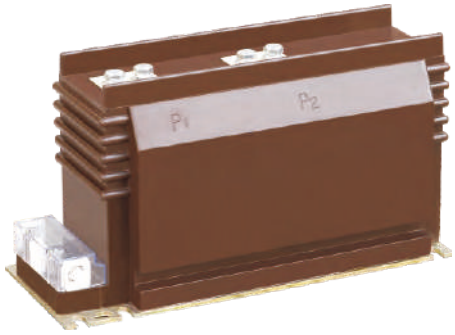


Rated Primary Current: 1200~3150A

LZZBJ9-10C2

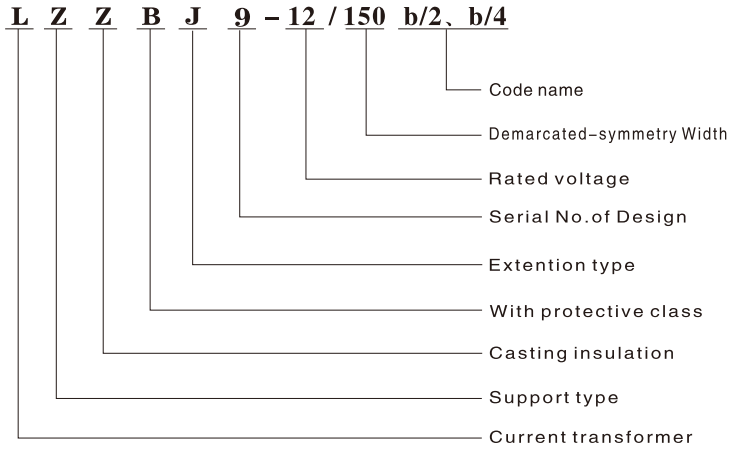
Current Transformer





12kV Indoor Single–Phase Epoxy Resin Type

Type Description



Technical Data

Rated insulation level:	12/42/75kV
Rated frequency:	50/60Hz
Installation site:	Indoor
Technical standard:	GB1208–2006 IEC 60044–1:2003

Specification

LZZBJ9-12/150b/2 Single Ratio

Rated transformation ratio(A)	Accuary classes combination	COSΦ=0.8 Rated output			(ALF)	(FS)	Short–time thermal current Ith(kA/S)	Rated dynamic current Idyn(kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
10~200/5	0.2(S)/0.2(S) 0.2(S)/0.5 0.2(S)/10P 0.5/10P 0.2S/0.5/10P 0.2/0.5/10P	10 15	15	15	10 15 20	5 (10)	100I1n	250I1n
300/5							31.5	80
400/5							31.5	80
500/5							40	100
600/5							50	125
800/5				20			63	125
1000/5							80	160
1200,1250/5							100	160

Note: Upon request we are glad to offer transformers according to other technical specs.

Current Transformer

LZZBJ9-12/150b/2 Double Ratio

Rated transformation ratio(A)	Accuary classes combination	COSΦ=0.8 Rated output			(ALF)	(FS)	Short–time thermal current Ith(kA/S)	Rated dynamic current Idyn(kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
10–20/5	0.2(S)/0.2(S) 0.2(S)/0.5 0.2(S)/10P 0.5/10P	10 15	15	15 20	10 15 20	5 (10)	1.5	3.75
20–40/5							3	7.5
50–100/5							8	20
100–200/5							15	37.5
200–400/5							30	75
400–800/5							63	130
500–1000/5							63	130
600–1200/5							80	160

LZZBJ9-12/150b/4 Single Ratio

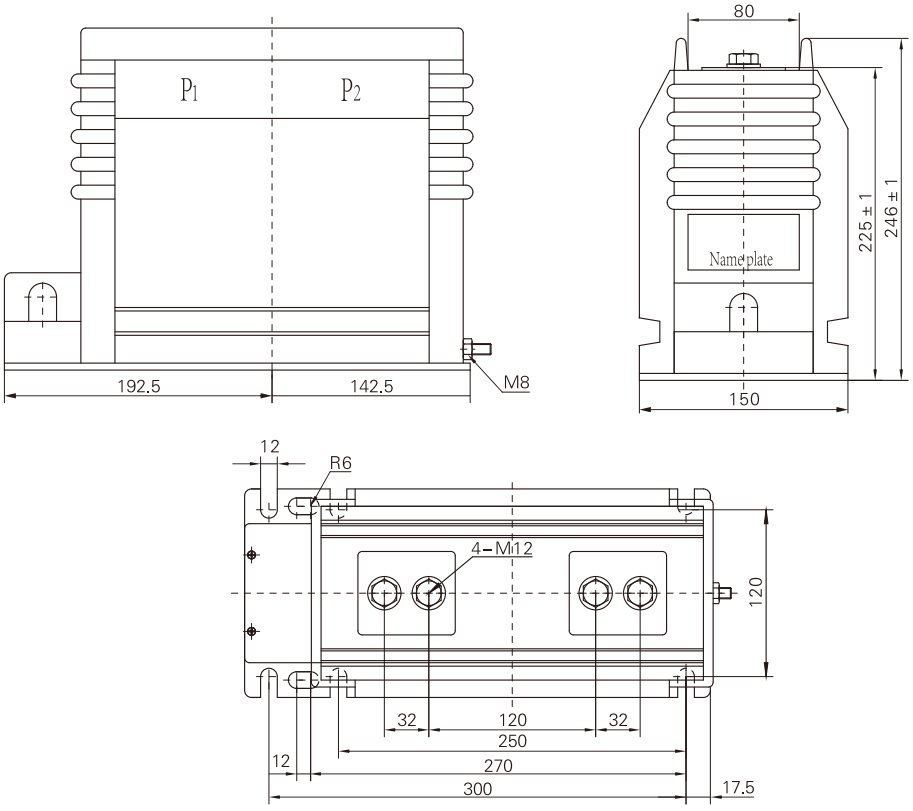
Rated transformation ratio(A)	Accuary classes combination	COSΦ=0.8 Rated output			(ALF)	(FS)	Short–time thermal current Ith(kA/S)	Rated dynamic current Idyn(kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
10~200/5	0.2S/0.5/10P 0.2/0.5/10P 0.2(S)/10P/10P 0.5/10P/10P 0.2(S)/0.5/10P/10P	10 15	15	15	10 15 20	5 (10)	100I1n	250I1n
300/5							31.5	80
400/5							31.5	80
500/5							40	100
600/5							50	125
800/5				20			63	125
1000/5							80	160
1200,1250/5							80	160

LZZBJ9-12/150b/4 Double Ratio

Rated transformation ratio(A)	Accuary classes combination	COSΦ=0.8 Rated output			(ALF)	(FS)	Short–time thermal current Ith(kA/S)	Rated dynamic current Idyn(kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
10–20/5	0.2S/0.5/10P 0.2/0.5/10P 0.2(S)/10P/10P 0.5/10P/10P	10 15	15	15 20	10 15 20	5 (10)	1.5	3.75
20–40/5							3	7.5
50–100/5							8	20
100–200/5							15	37.5
200–400/5							30	75
400–800/5							63	130
500–1000/5							63	130
600–1200/5							80	160

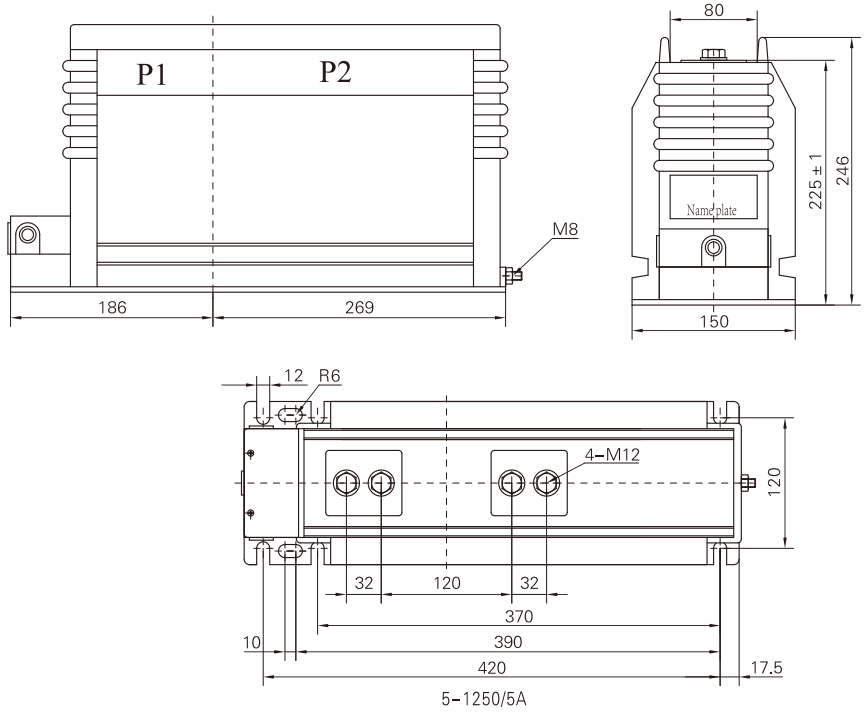
Note: Upon request we are glad to offer transformers according to other technical specs.

Current Transformer



5-1250/5A

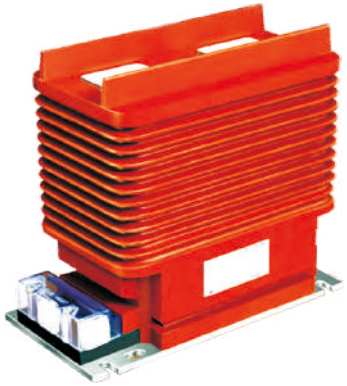
LZZBJ9-12/150b/2

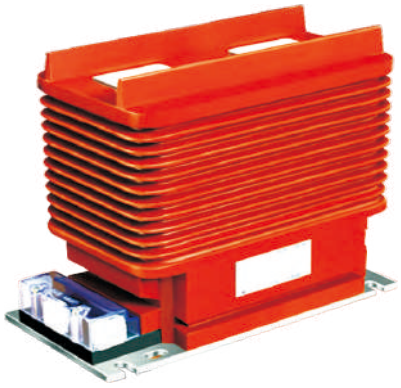


5-1250/5A

LZZBJ9-12/150b/4

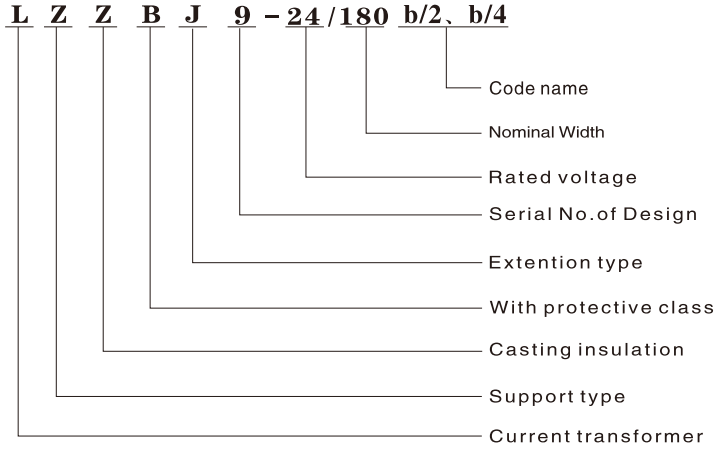
Current Transformer





24kV Indoor Single-Phase Epoxy Resin Type

Type Description



Technical Data

Rated insulation level:	24/65/125kV
Rated frequency:	50/60Hz
Installation site:	Indoor
Technical standard:	GB1208–2006 IEC 60044–1:2003

Specification

LZZBJ9–24/180b/2

Rated transformation ratio(A)	Accuary classes combination	COSΦ=0.8 Rated output			(ALF)	(FS)	Short–time thermal current Ith(kA/S)	Rated dynamic current Idyn(kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
20–200/5	0.2(S)/0.2(S)	10 15	15	15	10 15	5 (10)	150I1n	375I1n
300/5							31.5	80
400/5	0.2(S)/0.5						31.5	80
500/5							40	100
600/5	0.2(S)/10P						50	125
800/5				20			63	125
1000/5	0.5/10P						80	160
1250/5							80	160

Current Transformer

LZZBJ9–24/180b/4

1: Three secondary single ratio

Rated transformation ratio(A)	Accuary classes combination	Rated output			(ALF)	(FS)	Short–time thermal current Ith(kA/S)	Rated dynamic current Idyn(kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
15–300/5	0.2S/0.5/10P 0.2/0.5/10P 0.5/0.5/10P 0.2S/10P /10P 0.2/10P /10P 0.5/10P /10P	15	15	15 20	10 15 20	5 (10)	150I1n	375I1n
400/5 ~ 600/5							50	105
800/5 ~ 1000/5							63	130
1200/5							80	160
1500/5							80	160
2000/5							100	200
2500/5							125	200

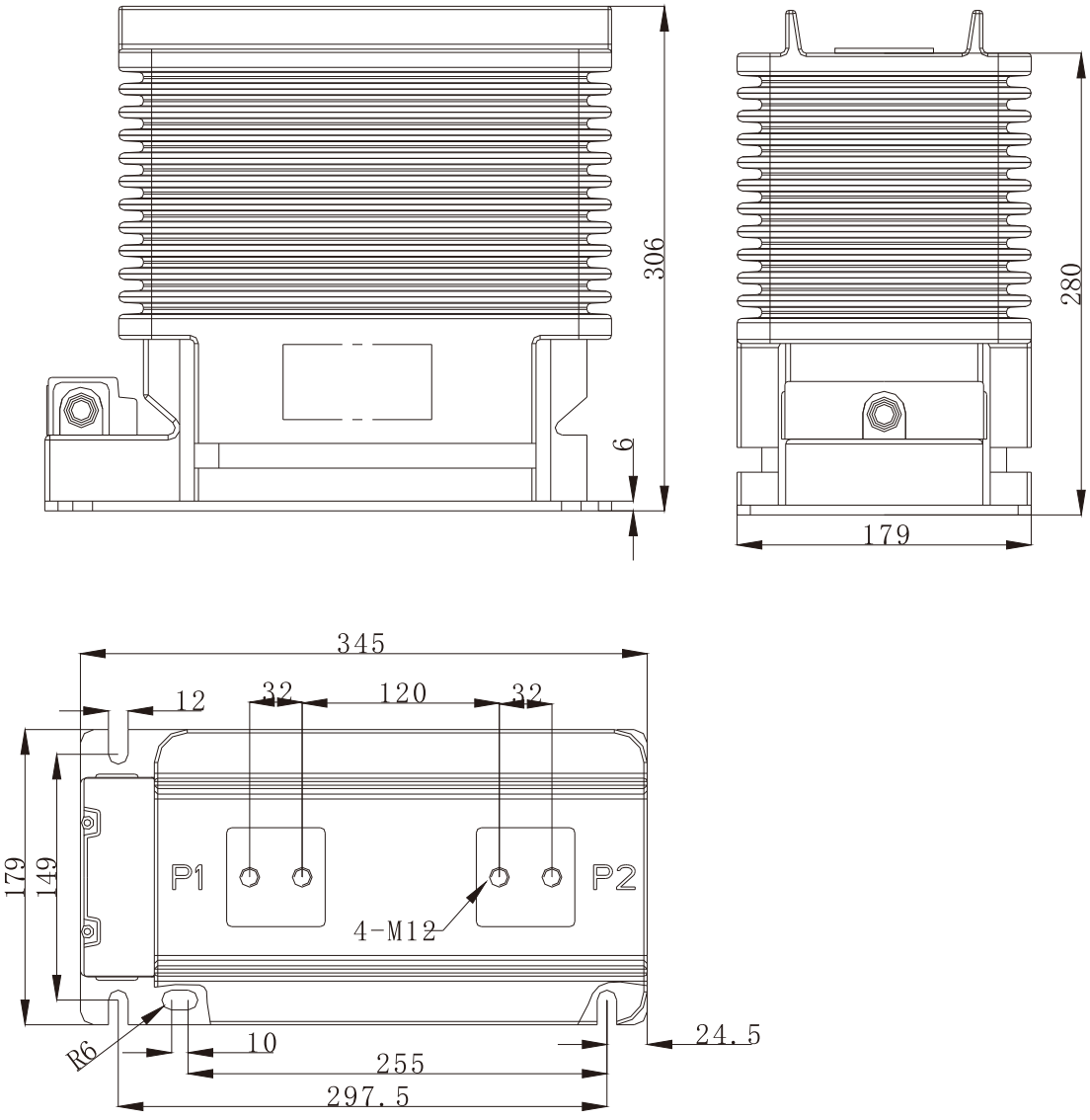
LZZBJ9–24/180b/4

2: Three secondary double ratio

Rated transformation ratio(A)	Accuary classes combination	Rated output			(ALF)	(FS)	Short–time thermal current Ith(kA/S)	Rated dynamic current Idyn(kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
15–30/5 20–40/5 …… 500–1000/5	0.2S/0.5/10P 0.2/0.5/10P 0.5/0.5/10P	15	15	10	10	5 (10)	100I1n	250I1n
600–1200/5							50	105
750–1500/5	0.2S/10P /10P						63	130
800–1600/5	0.2/10P /10P			15			80	160
1000–2000/5	0.5/10P /10P				15		80	160
1250–2500/5							100	200

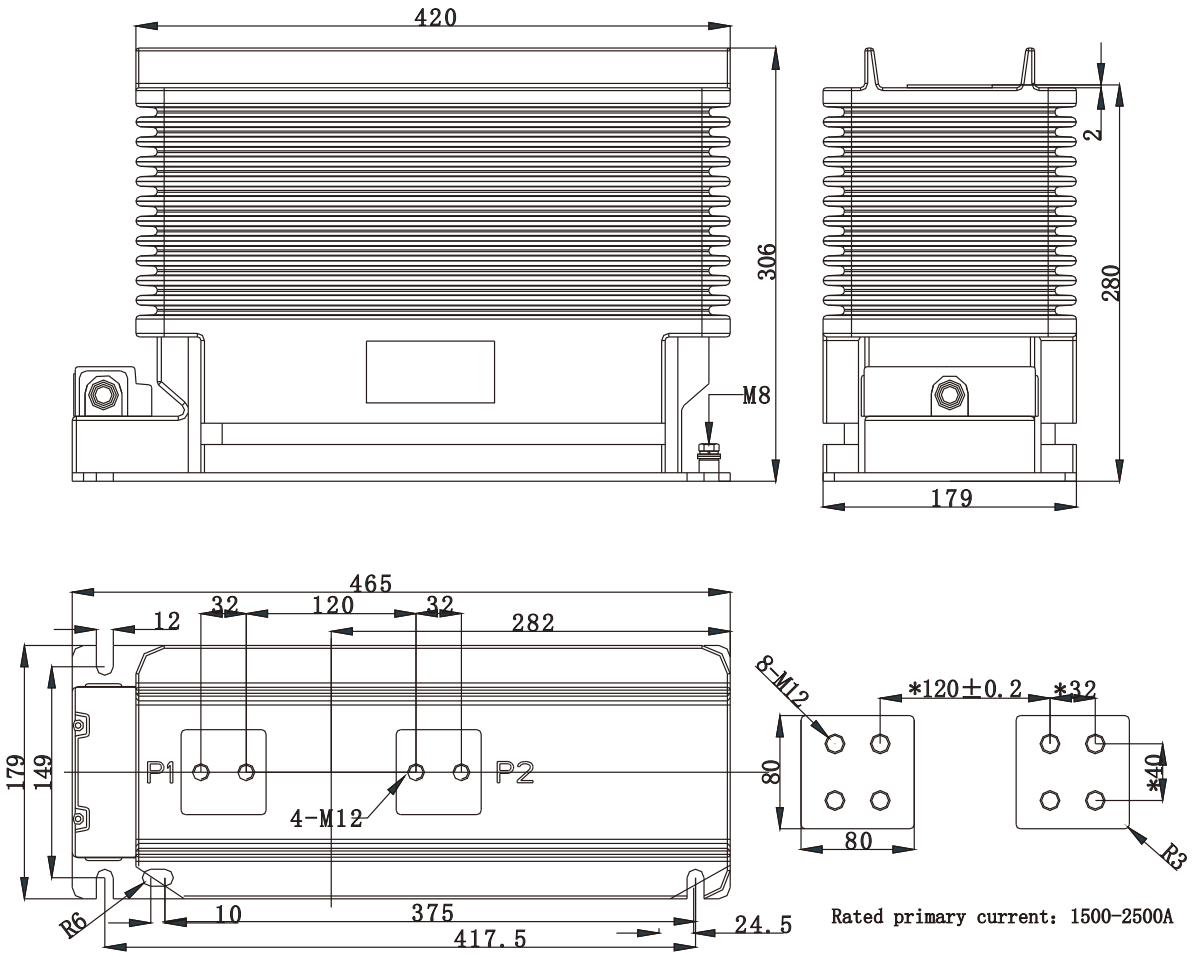
Note: Upon request we are glad to offer transformers according to other technical specs.

Current Transformer



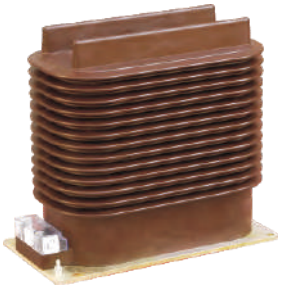
LZZBJ9-24/180b/2

Current Transformer



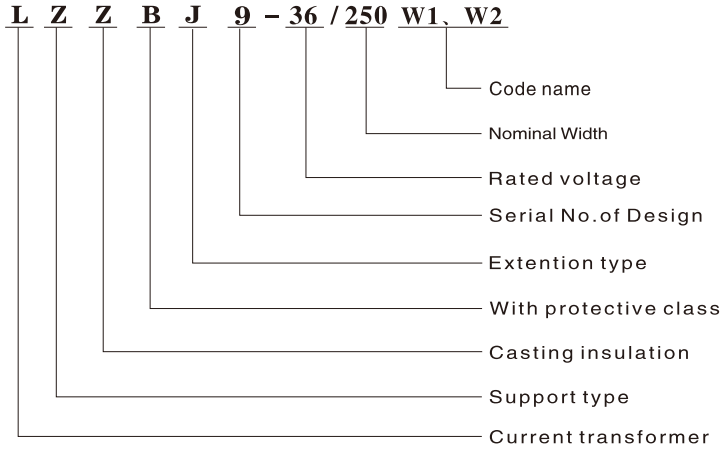
LZZBJ9-24/180b/4

Current Transformer



40.5kV Indoor Single-Phase Epoxy Resin Type

Type Description



Technical Data

Rated insulation level:	40.5/95/185kV
Rated frequency:	50/60Hz
Installation site:	Indoor
Technical standard:	GB1208–2006 IEC 60044–1:2003

Specification

LZZBJ9-36/250W1 Single Ratio

Rated transformation ratio(A)	Accuary classes combination	COSΦ=0.8 Rated output			(ALF)	(FS)	Short–time thermal current Ith(kA/S)	Rated dynamic current Idyn(kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
20–200/5	0.2(S)/0.2(S) 0.2(S)/0.5 0.2(S)/10P 0.5/10P 0.2S/0.5/10P 0.2/0.5/10P	10 15	15	15 20	10 15 20	5 (10)	150I1n	375I1n
300/5							31.5	80
400/5							31.5	80
500/5							40	100
600/5							50	125
800/5							63	125
1000/5							80	160
1200 ~ 1500/5							80	160
1500 ~ 2000/5							100	160
2000 ~ 2500/5							100	160

Note: Upon request we are glad to offer transformers according to other technical specs.

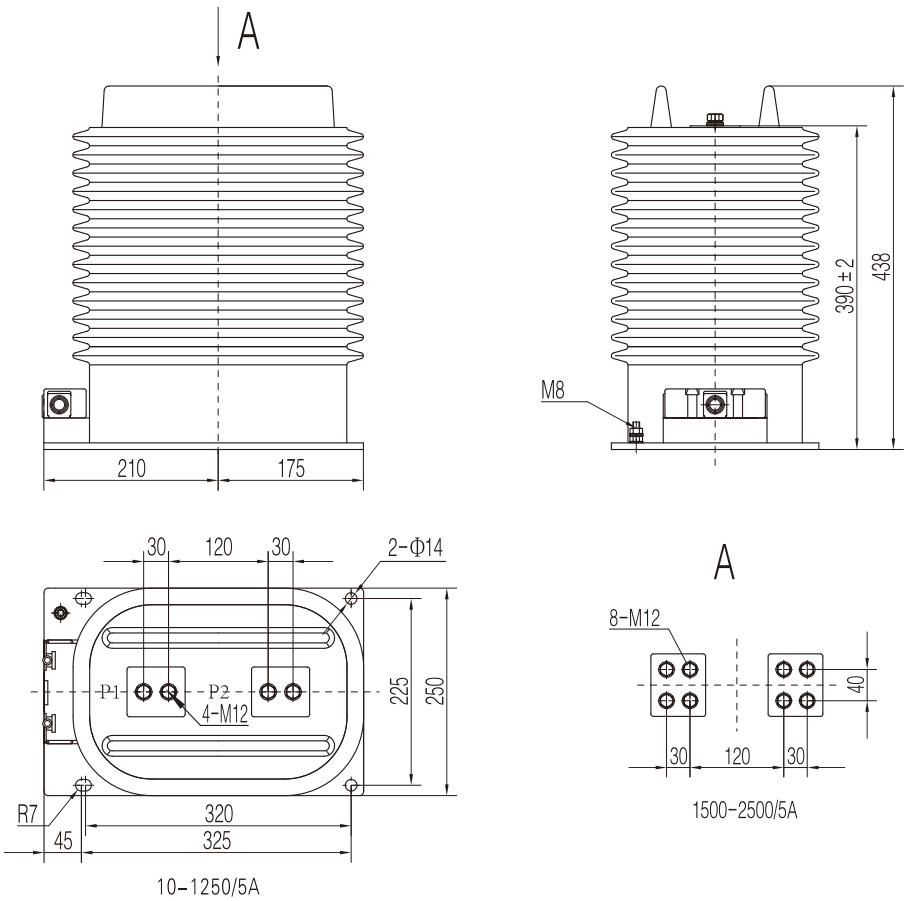
Current Transformer

LZZBJ9-36/250W2 Single Ratio

Rated transformation ratio(A)	Accuary classes combination	COSΦ=0.8 Rated output			(ALF)	(FS)	Short–time thermal current Ith(kA/S)	Rated dynamic current Idyn(kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
20–200/5	0.2(S)/0.2(S)/0.5 0.2(S)/0.5/0.5/10P 0.2(S)/0.5/10P/10P 0.2(S)/10P/10P/10P	10 15	15	15 20	10 15 20	5 (10)	150I1n	375I1n
300/5							31.5	80
400/5							31.5	80
500/5							40	100
600/5							50	125
800/5							63	125
1000/5							80	160
1200 ~ 1500/5							80	160
1500 ~ 2000/5							100	160
2000 ~ 2500/5							100	160

Note: Upon request we are glad to offer transformers according to other technical specs.

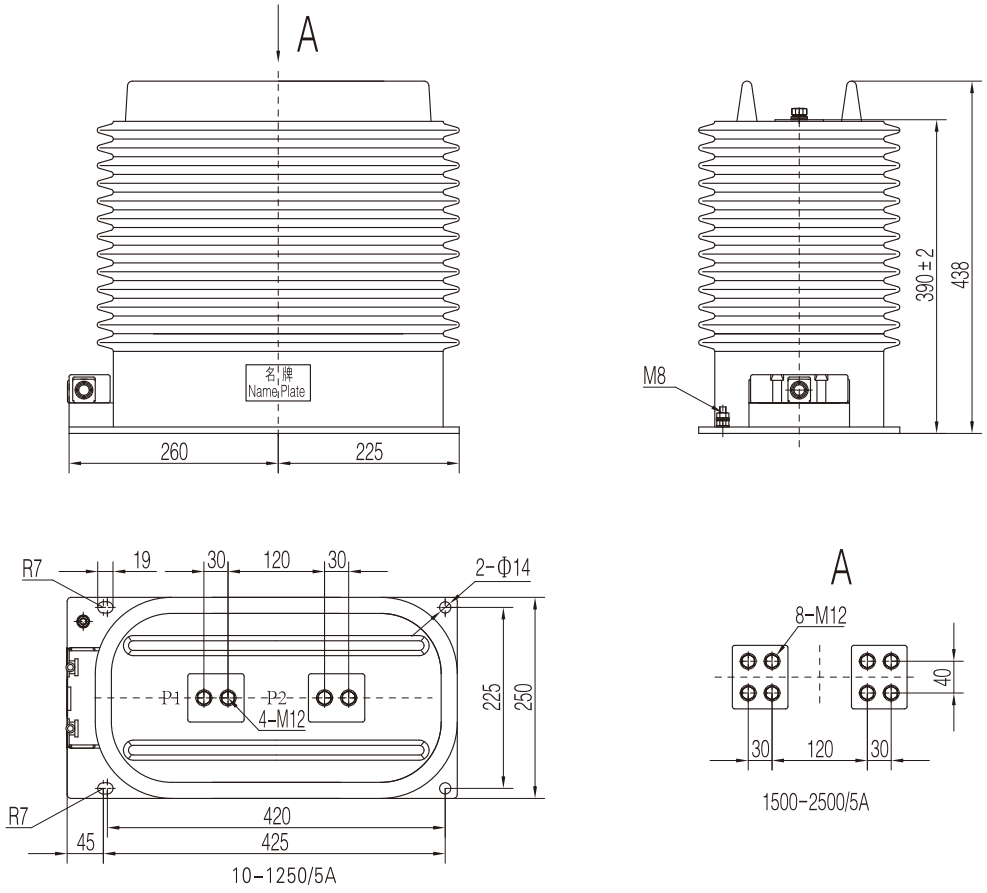
Outline Drawing



LZZBJ9-36/250W1

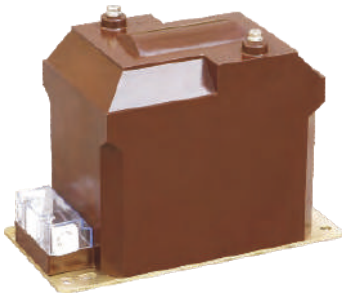
Current Transformer

Outline Drawing



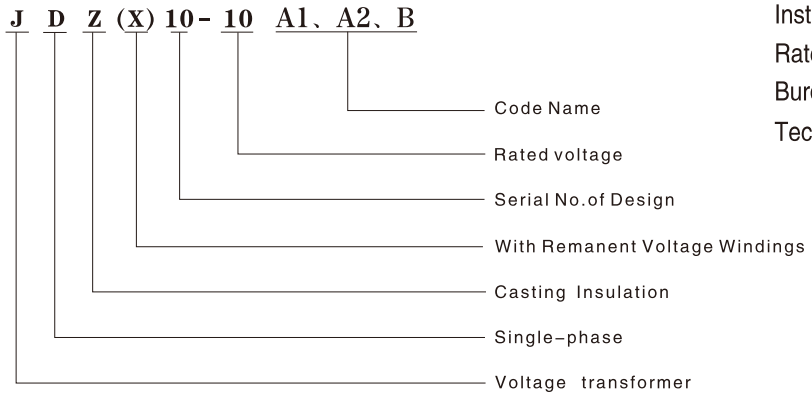
LZZBJ9-36/250W2

Voltage Transformer



12kV Indoor Single-Phase Epoxy Resin Type

Type Description



Technical Data

Installation Site	Indoor
Rated Frequency	50/60Hz
Burden power factor	cosΦ=0.8 (lagging)
Technical standard accords with	GB1207–2006
	IEC 60044–2:2003

Specification

Type	Rated primary Voltage (kV)	Rated secondary Voltage (kV)	Accuracy classes combination	Rated output (VA)	Thermal limiting Output (VA)	Rated Insulation level (kV)
JDZ10-10A1	3 6 10	0.1	0.2	15	150	3.6/25/40 7.2/32/60 12/42/75
			0.5	30		
			1	50		
JDZ10-10A1 JDZX10-10A1	$3/\sqrt{3}$ $6/\sqrt{3}$ $10/\sqrt{3}$	$0.1/\sqrt{3}/0.1/3$	0.2/6P(3P)	15/50	150	3.6/25/40 7.2/32/60 12/42/75
			0.5/6P(3P)	30/50		
			1/6P(3P)	50/50		
JDZ10-10A2	3 6 10	0.1 0.1/0.1 0.22	0.2(0.5)	20/40	200	3.6/25/40 7.2/32/60 12/42/75
			0.2/0.2(0.5)	10/10(15)		
			3	200	300	
JDZ10-10A2 JDZX10-10A2	$3/\sqrt{3}$ $6/\sqrt{3}$ $10/\sqrt{3}$	$0.1/\sqrt{3}/0.1/3$ $0.1/\sqrt{3}/0.1/\sqrt{3}/0.1/3$	0.2/6P(3P)	20/50	200	3.6/25/40 7.2/32/60 12/42/75
			0.5/6P(3P)	40/50		
			0.2/0.5/6P(3P)	10/15/50		

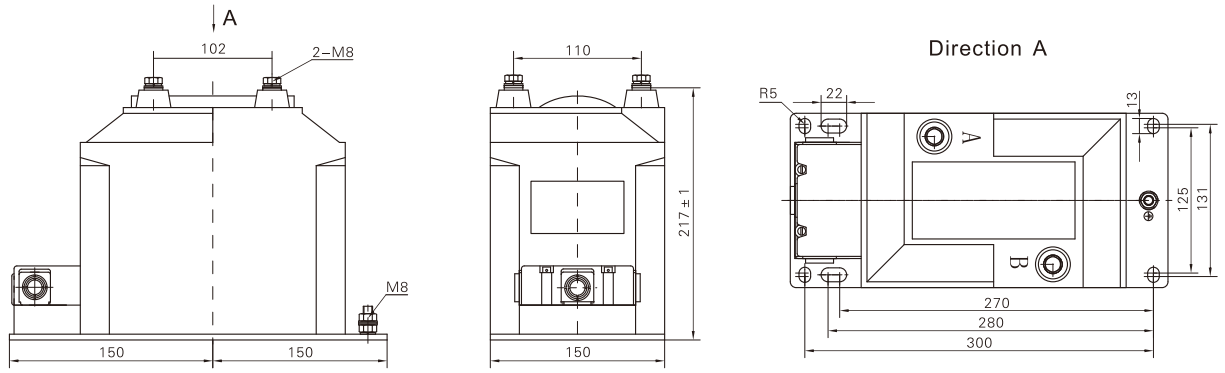
Note: Upon request we are glad to offer transformers according to other technical specs.

Voltage Transformer

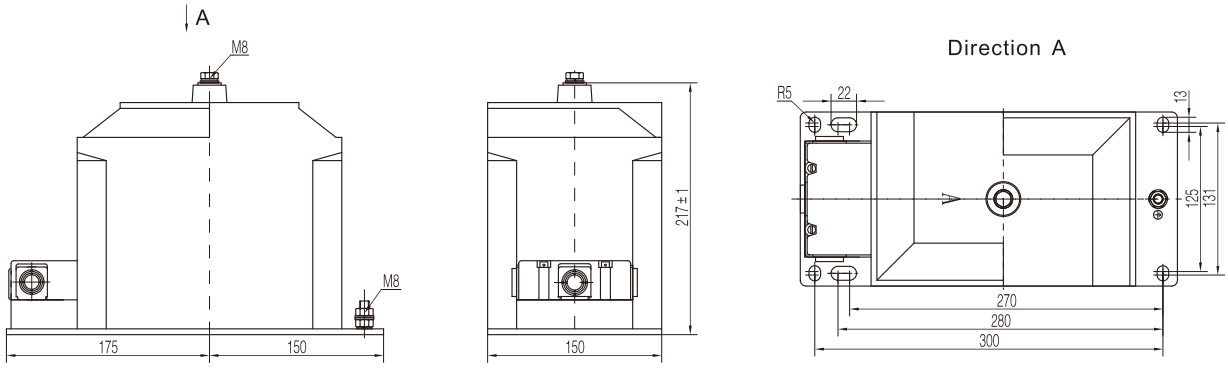
Type	Rated primary Voltage (kV)	Rated secondary Voltage (kV)	Accuracy classes combination	Rated output (VA)	Thermal limiting Output (VA)	Rated Insulation level (kV)
JDZ10-10B	3 6 10	0.1 0.1/0.1 0.1/0.22 0.22	0.2(0.5)	30(50)	200/200	3.6/25/40 7.2/32/60 12/42/75
			0.2/0.2(0.5)	15/15(20)		
			0.2/3	30/300	200/400	
			3	500	800	
JDZ10-10B JDZX10-10B	$3/\sqrt{3}$ $6/\sqrt{3}$ $10/\sqrt{3}$	$0.1/\sqrt{3}/0.1/3$ $0.1/\sqrt{3}/0.1/\sqrt{3}/0.1/3$	0.2/6P(3P)	30/100	200/400	3.6/25/40 7.2/32/60 12/42/75
			0.5/6P(3P)	50/100		
			0.2/0.5/6P(3P)	15/20/100	150/150/300	

Note: Upon request we are glad to offer transformers according to other technical specs.

Outline Drawing



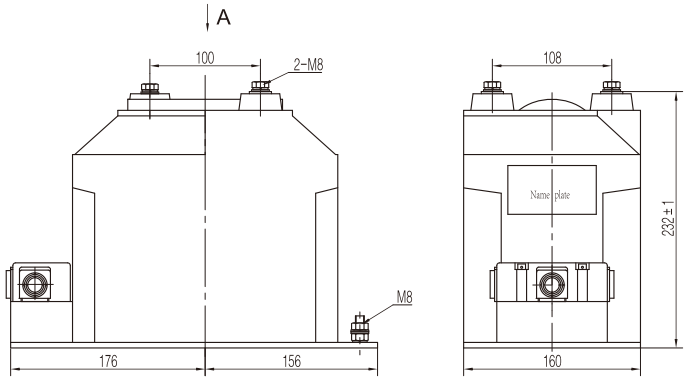
JDZ10-3、6、10



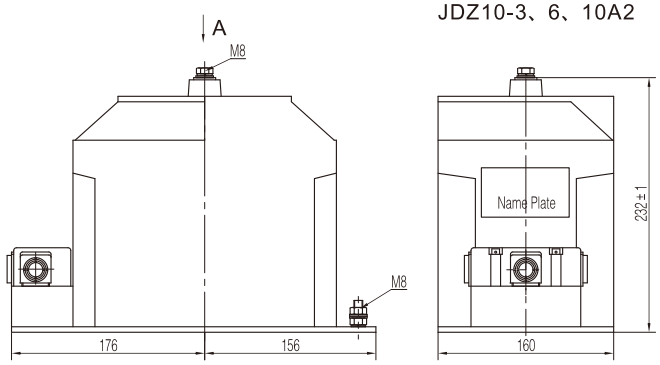
JDZX10–3、6、10

Voltage Transformer

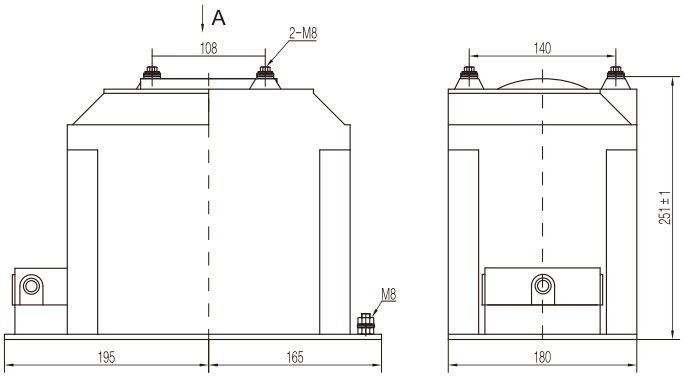
Outline Drawing



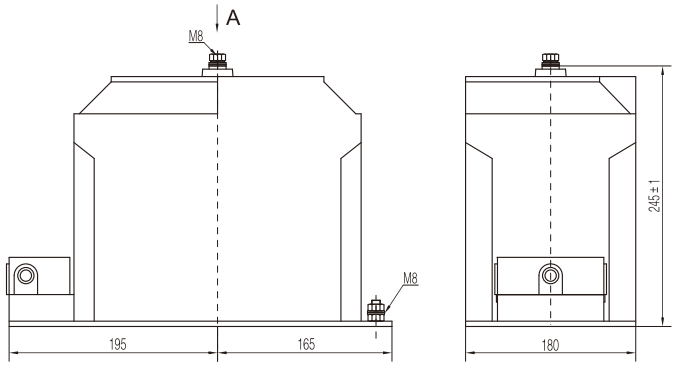
JDZ10-3、6、10A2



JDZX10-3、6、10A2



JDZ10-3、6、10B



JDZX10-3、6、10B

Voltage Transformer

Wiring Drawing

figure 1

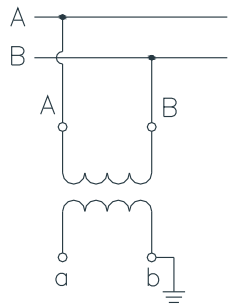


figure 2

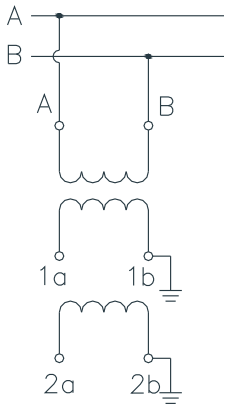


figure 3

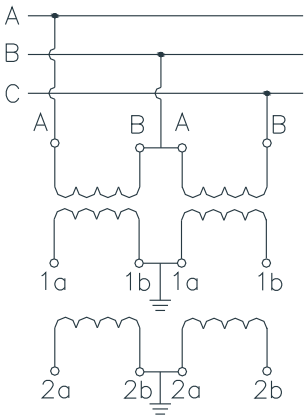


figure 4

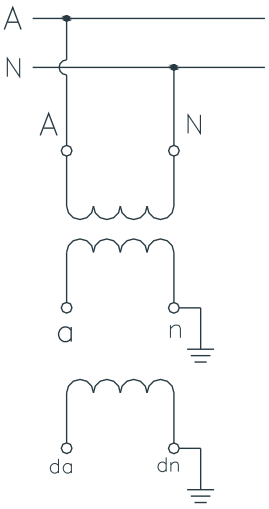


figure 5

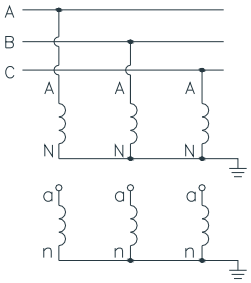
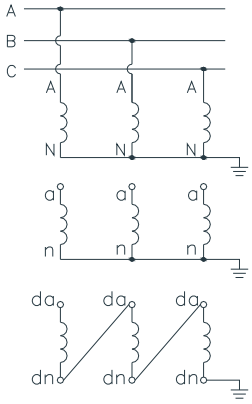


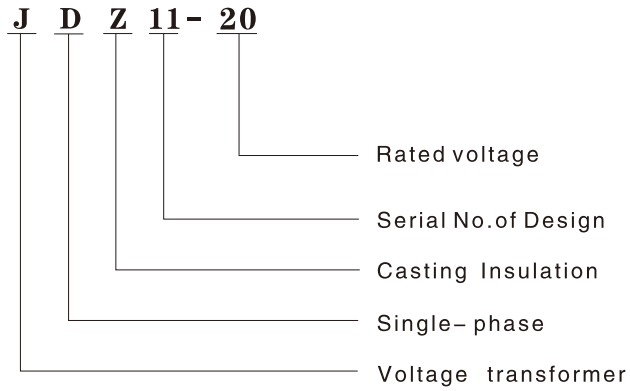
figure 6



Voltage Transformer

24kV Indoor Single–Phase Epoxy Resin Type

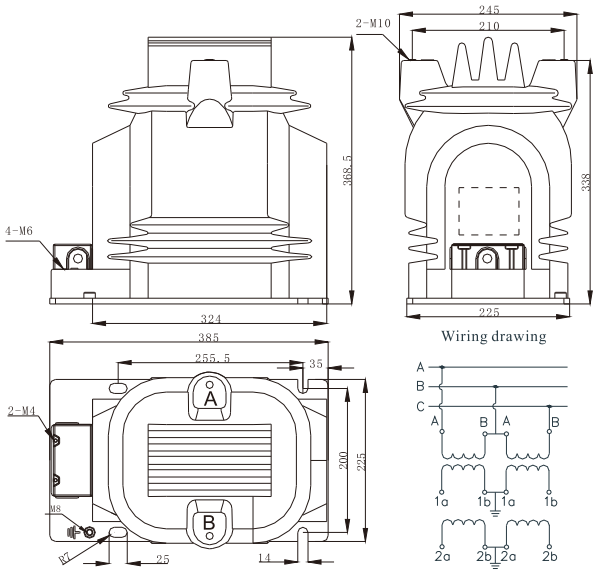
Type Description



Technical Data

Installation Site	Indoor
Rated Frequency	50/60Hz
Burden power factor	cosΦ=0.8 (lagging)
Technical standard accords with	GB1207–2006
	IEC 60044–2:2003

Outline Drawing



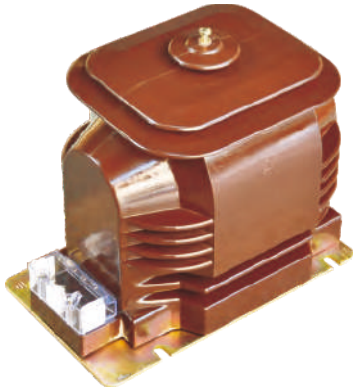
Specification

Type	Rated primary Voltage (kV)	Rated secondary Voltage (kV)	Accuracy classes combination	Rated output (VA)	Thermal limiting Output (VA)	Rated Insulation level(kV)
JDZ11–15	15	0.1	0.2	30	600	17.5/55/105
			0.5	80		
			1	150		
		0.1/0.1	0.2/0.2	15/15	300/300	
JDZ11–20	20		0.2/0.5	20/30		24/65/125
		0.1/0.22	0.2/3	15/600	600	
			0.5/3	25/600		

Note: Upon request we are glad to offer transformers according to other technical specs.

Voltage Transformer

24kV Indoor Single–Phase Epoxy Resin Type



Type Description

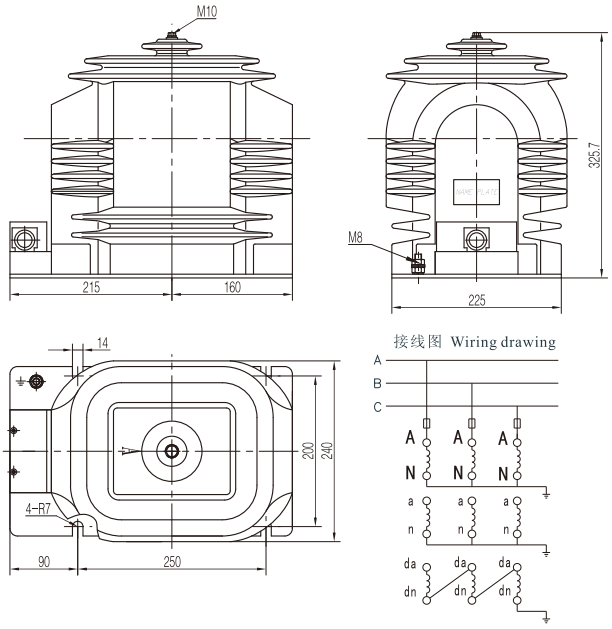
J D Z X 11 – 20

- 20 — Rated voltage
- 11 — Serial No.of Design
- X — With Remanent Voltage Windings
- Z — Casting Insulation
- D — Single– phase
- J — Voltage transformer

Technical Data

Installation Site	Indoor
Rated Frequency	50/60Hz
Burden power factor	cosΦ=0.8 (lagging)
Technical standard accords with	GB1207–2006
	IEC 60044–2:2003

Outline Drawing



Specification

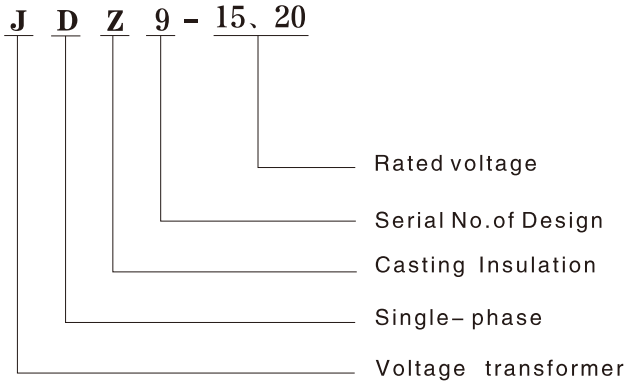
Type	Rated primary Voltage (kV)	Rated secondary Voltage (kV)	Accuracy classes combination	Rated output (VA)	Thermal limiting Output (VA)	Rated Insulation level (kV)
JDZX-11	$15/\sqrt{3}$ $20/\sqrt{3}$	$0.1/\sqrt{3}/0.1/3$ $0.1/\sqrt{3}/0.1/\sqrt{3}/0.1/3$	0.2/6P(3P)	40/100	300/500	17.5/55/105 24/65/125
			0.5/6P(3P)	80/100		
			0.2/0.5/6P(3P)	20/30/100	200/200/400	

Note: Upon request we are glad to offer transformers according to other technical specs.

Voltage Transformer

24kV Indoor Single–Phase Epoxy Resin Type

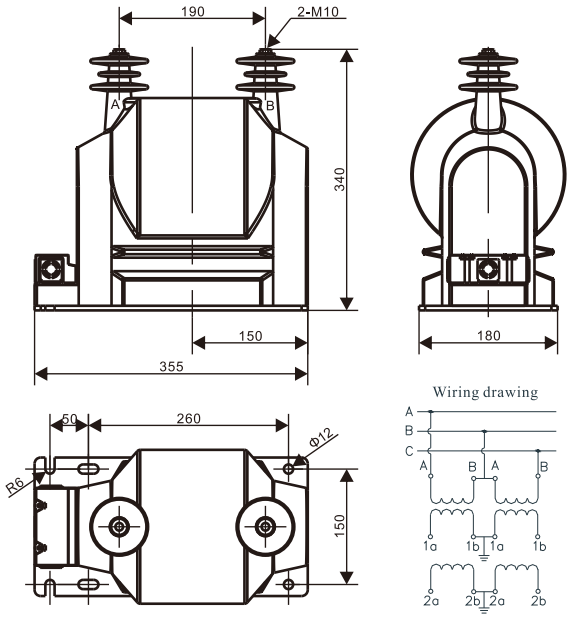
Type Description



Technical Data

Installation Site	Indoor
Rated Frequency	50/60Hz
Burden power factor	cosΦ=0.8 (lagging)
Technical standard accords with	GB1207–2006 IEC 60044–2:2003

Outline Drawing



Specification

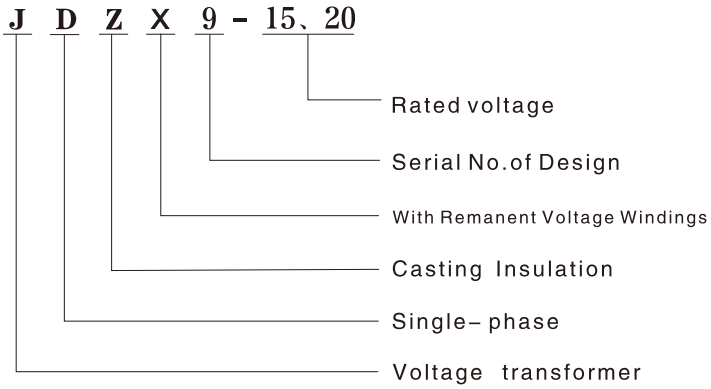
Type	Rated primary Voltage (kV)	Rated secondary Voltage (kV)	Accuracy classes combination	Rated output (VA)	Thermal limiting Output (VA)	Rated Insulation level(kV)
JDZ9–15	15	0.1	0.2	30	600	17.5/55/105
			0.5	80		
			1	150		
		0.1/0.1	0.2/0.2	15/15	200/200	
JDZ9–20	20		0.2/0.5	20/30		24/65/125
		0.1/0.22	0.2/3	20/500	600	
			0.5/3	60/500		

Note: Upon request we are glad to offer transformers according to other technical specs.

Voltage Transformer

24kV Indoor Single–Phase Epoxy Resin Type

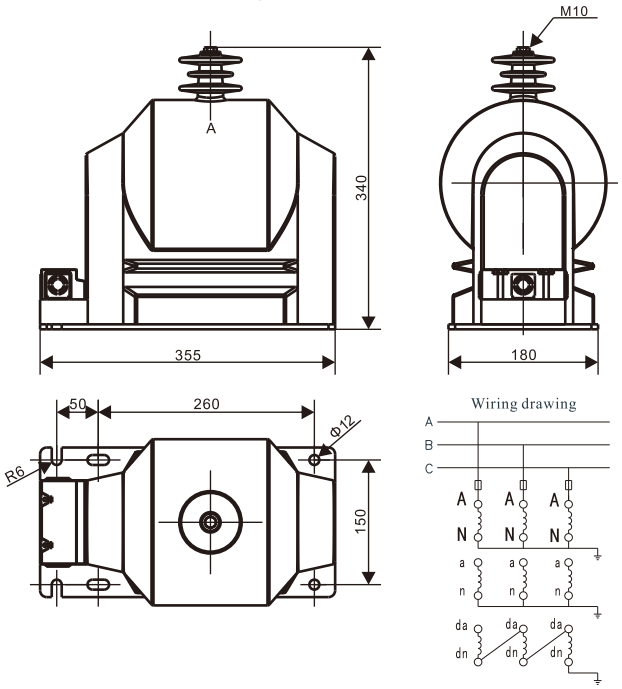
Type Description



Technical Data

Installation Site	Indoor
Rated Frequency	50/60Hz
Burden power factor	cosΦ=0.8 (lagging)
Technical standard accords with	GB1207–2006 IEC 60044–2:2003

Outline Drawing



Specification

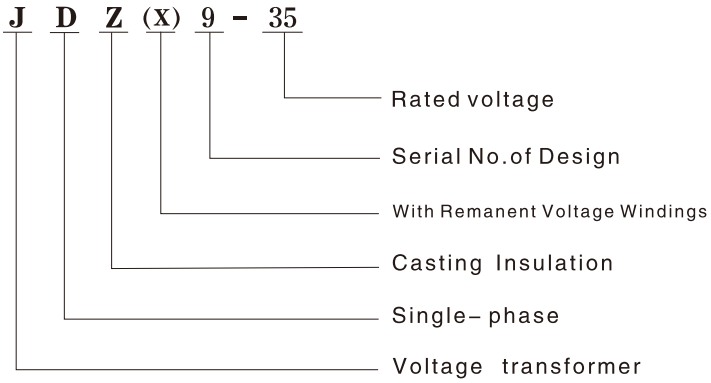
Type	Rated primary Voltage (kV)	Rated secondary Voltage (kV)	Accuracy classes combination	Rated output (VA)	Thermal limiting Output (VA)	Rated Insulation level (kV)
JDZX-9	$15/\sqrt{3}$ $20/\sqrt{3}$	$0.1/\sqrt{3}/0.1/3$ $0.1/\sqrt{3}/0.1/\sqrt{3}/0.1/3$	0.2/6P(3P)	30/100	200/400	17.5/55/105 24/65/125
			0.5/6P(3P)	60/100		
			0.2/0.5/6P(3P)	20/30/100	150/150/300	

Note: Upon request we are glad to offer transformers according to other technical specs.

Voltage Transformer

35kV Indoor Single-Phase Epoxy Resin Type

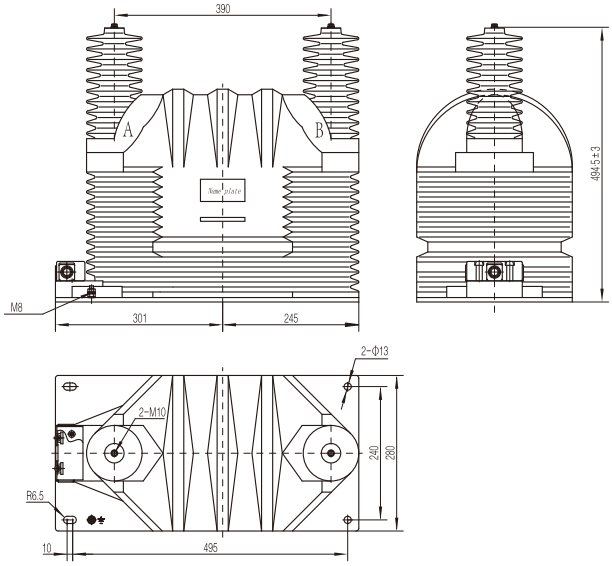
Type Description



Technical Data

Installation Site	Indoor
Rated Frequency	50/60Hz
Burden power factor	cosΦ=0.8 (lagging)
Technical standard accords with	GB1207-2006 IEC 60044-2:2003

Outline Drawing



Specification

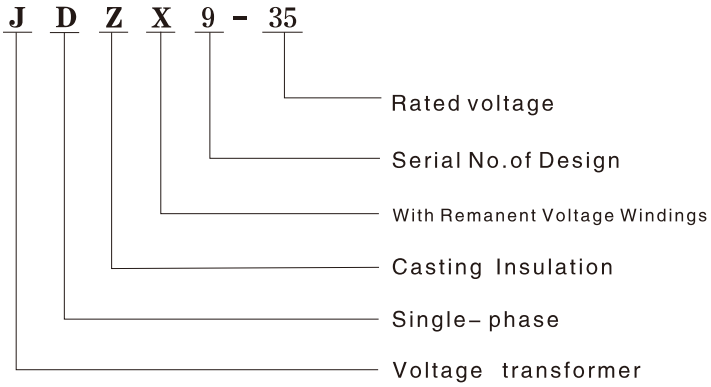
Type	Rated primary Voltage (kV)	Rated secondary Voltage (kV)	Accuracy classes combination	Rated output (VA)	Thermal limiting Output (VA)	Rated Insulation level (kV)
JDZ9-35	35	0.1 0.1/0.1 0.1/0.22 0.22	0.2(0.5)	40(80)	400	40.5/95/185
			0.2/0.2(0.5)	20/20(40)		
			0.2/3	40/500	300/500	
			3	500	800	
JDZX9-35	$35/\sqrt{3}$	$0.1/\sqrt{3}/0.1/3$ $0.1/\sqrt{3}/0.1/\sqrt{3}/0.1/3$	0.2/6P(3P)	30/100	300/500	
			0.5/6P(3P)	60/100		
			0.2/0.5/6P(3P)	15/20/100	200/200/400	

Note: Upon request we are glad to offer transformers according to other technical specs.

Voltage Transformer

35kV Indoor Single-Phase Epoxy Resin Type

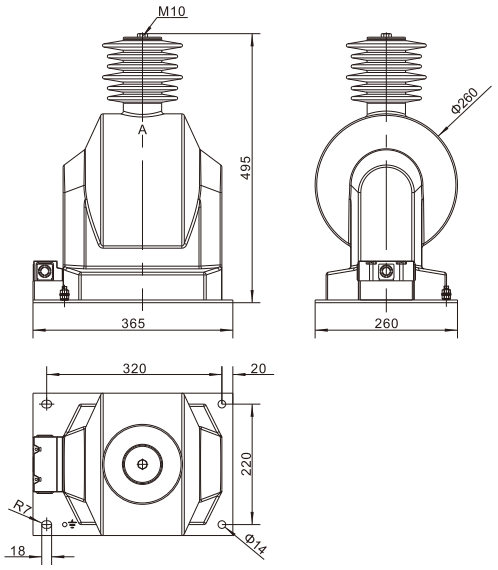
Type Description



Technical Data

Installation Site	Indoor
Rated Frequency	50/60Hz
Burden power factor	cosΦ=0.8 (lagging)
Technical standard accords with	GB1207–2006 IEC 60044–2:2003

Outline Drawing



Specification

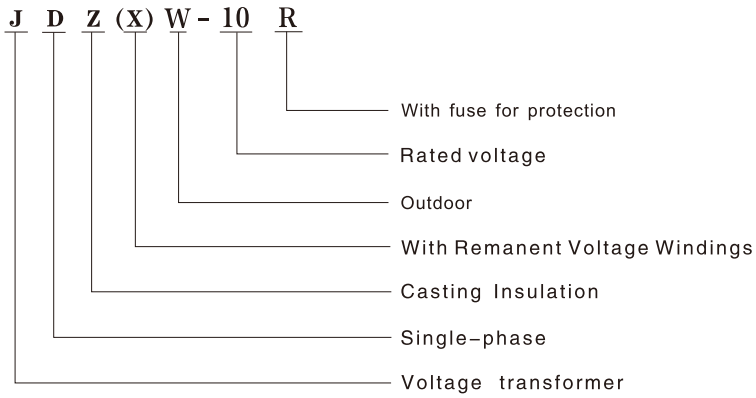
Type	Rated primary Voltage (kV)	Rated secondary Voltage (kV)	Accuracy classes combination	Rated output (VA)	Thermal limiting Output (VA)	Rated Insulation level (kV)
JDZX9-35	$35/\sqrt{3}$	$0.1/\sqrt{3}/0.1/3$ $0.1/\sqrt{3}/0.1/\sqrt{3}/0.1/3$	0.2/6P(3P)	30/100	300/500	40.5/95/185
			0.5/6P(3P)	60/100		
			0.2/0.5/6P(3P)	20/30/100	200/200/400	

Note: Upon request we are glad to offer transformers according to other technical specs.

Voltage Transformer

12kV Outdoor Single-Phase Epoxy Resin Type

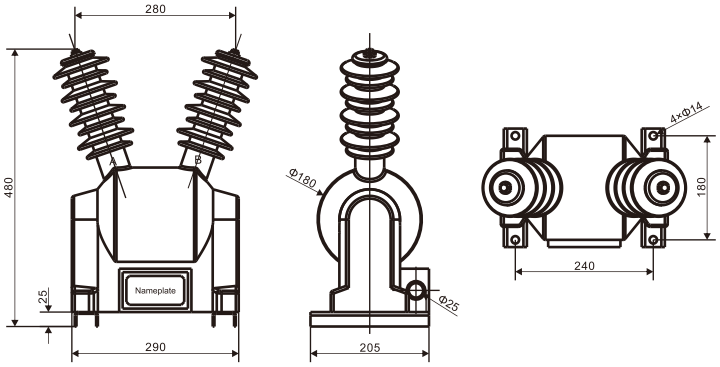
Type Description



Technical Data

Installation Site	Indoor
Rated Frequency	50/60Hz
Burden power factor	cosΦ=0.8 (lagging)
Technical standard accords with	GB1207-2006
	IEC 60044-2:2003

Outline Drawing



Specification

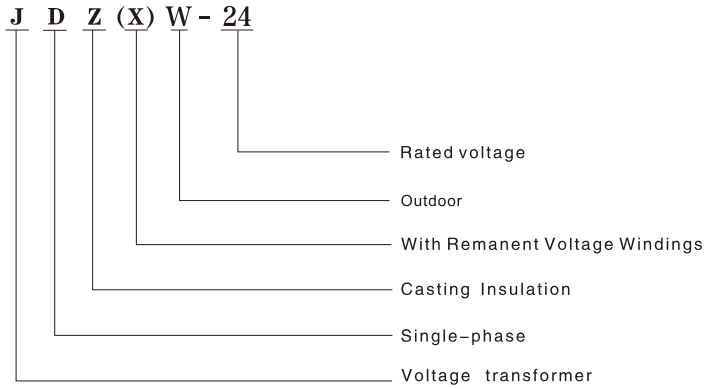
Type	Rated primary Voltage (kV)	Rated secondary Voltage (kV)	Accuracy classes combination	Rated output (VA)	Thermal limiting Output (VA)	Rated Insulation level (kV)
JDZW-10R	3 6 10	0.1 0.1/0.1 0.1/0.22 0.22	0.2(0.5)	30(50)	300/300	3.6/25/40 7.2/32/60 12/42/75
			0.2/0.2(0.5)	15/15(20)		
			0.2/3	30/300	300/500	
			3	500	800	
JDZXW-10R	$3/\sqrt{3}$ $6/\sqrt{3}$ $10/\sqrt{3}$	$0.1/\sqrt{3}$/0.1/3 $0.1/\sqrt{3}$/0.1/$\sqrt{3}$/0.1/3	0.2/6P(3P)	20/100	200/400	3.6/25/40 7.2/32/60 12/42/75
			0.5/6P(3P)	40/100		
			0.2/0.5/6P(3P)	15/20/100	150/150/300	

Note: Upon request we are glad to offer transformers according to other technical specs.

Voltage Transformer

24kV Outdoor Single-Phase Epoxy Resin Type

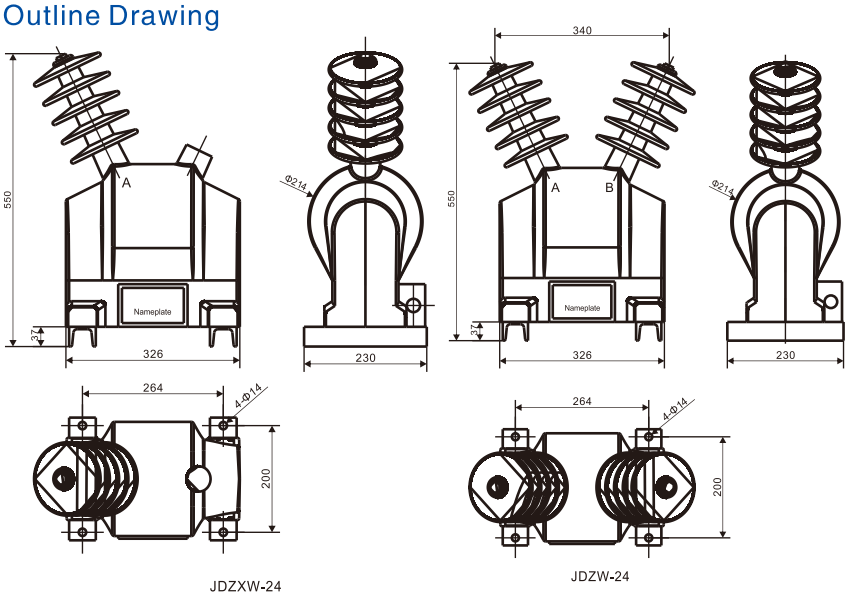
Type Description



Technical Data

Installation Site	Indoor
Rated Frequency	50/60Hz
Burden power factor	cosΦ=0.8 (lagging)
Technical standard accords with	GB1207-2006 IEC 60044-2:2003

Outline Drawing



Specification

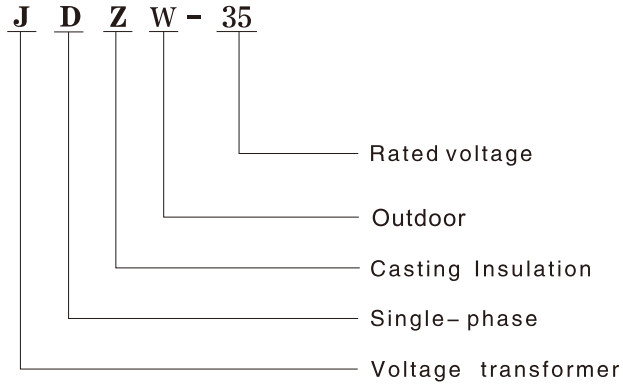
Type	Rated primary Voltage (kV)	Rated secondary Voltage (kV)	Accuracy classes combination	Rated output (VA)	Thermal limiting Output (VA)	Rated Insulation level (kV)
JDZW-24	15 20	0.1 0.1/0.1 0.1/0.22 0.22	0.2(0.5)	40(80)	400	17.5/55/105 24/65/125
			0.2/0.2(0.5)	20/20(30)		
			0.2/3	20/500	300/500	
			3	500	800	
JDZXW-24	$15/\sqrt{3}$ $20/\sqrt{3}$	$0.1/\sqrt{3}/0.1/3$ $0.1/\sqrt{3}/0.1/\sqrt{3}/0.1/3$	0.2/6P(3P)	30/100	300/500	17.5/55/105 24/65/125
			0.5/6P(3P)	50/100		
			0.2/0.5/6P(3P)	15/20/100	200/200/400	

Note: Upon request we are glad to offer transformers according to other technical specs.

Voltage Transformer

35kV Outdoor Single-Phase Epoxy Resin Type

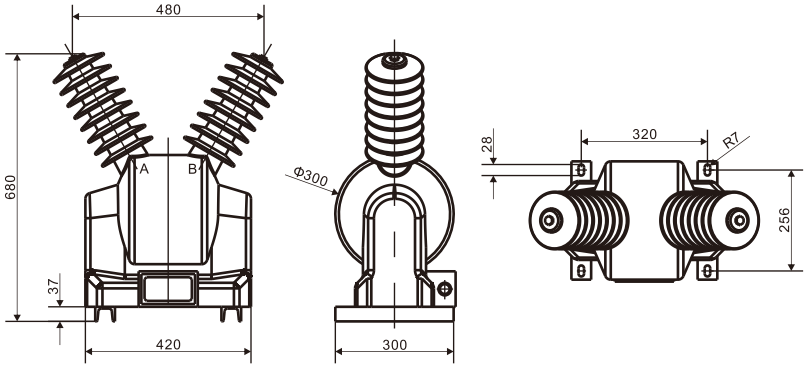
Type Description



Technical Data

Installation Site	Indoor
Rated Frequency	50/60Hz
Burden power factor	cosΦ=0.8 (lagging)
Technical standard accords with	GB1207–2006 IEC 60044–2:2003

Outline Drawing



Specification

Type	Rated primary Voltage (kV)	Rated secondary Voltage (kV)	Accuracy classes combination	Rated output (VA)	Thermal limiting Output (VA)	Rated Insulation level (kV)
JDZW-35	35	0.1 0.1/0. 1 0.1/0.22 0.22	0.2(0.5)	40(80)	600	40.5/95/185
			0.2/0.2(0.5)	20/20(30)		
			0.2/3	40/600	300/800	
			3	800	1000	

Note: Upon request we are glad to offer transformers according to other technical specs.

Voltage Transformer

35kV Outdoor Single-Phase Epoxy Resin Type

Type Description

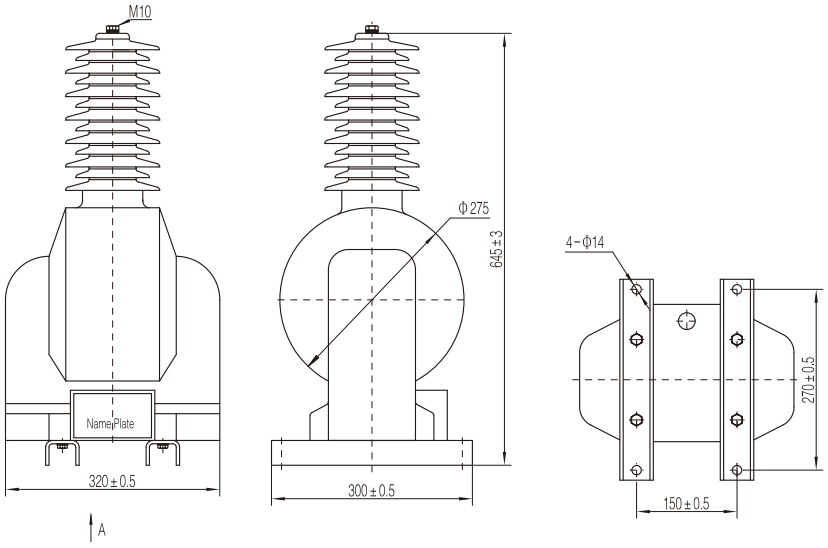
J D Z (X) W - 35

- 35 — Rated voltage
- W — Outdoor
- (X) — With Remanent Voltage Windings
- Z — Casting Insulation
- D — Single-phase
- J — Voltage transformer

Technical Data

Installation Site	Indoor
Rated Frequency	50/60Hz
Burden power factor	cosΦ=0.8 (lagging)
Technical standard accords with	GB1207-2006 IEC 60044-2:2003

Outline Drawing

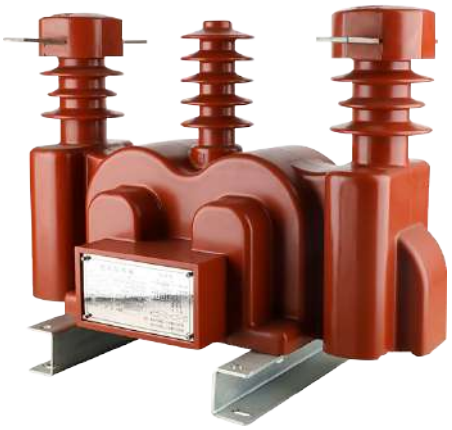


Specification

Type	Rated primary Voltage (kV)	Rated secondary Voltage (kV)	Accuracy classes combination	Rated output (VA)	Thermal limiting Output (VA)	Rated Insulation level (kV)
JDZXW-35	$35/\sqrt{3}$	$0.1/\sqrt{3}/0.1/3$ $0.1/\sqrt{3}/0.1/\sqrt{3}/0.1/3$	0.2/6P(3P)	30/100	300/500	40.5/95/185
			0.5/6P(3P)	80/100		
			0.2/0.5/6P(3P)	15/20/100	200/200/400	

Note: Upon request we are glad to offer transformers according to other technical specs.

Combined Transformer



Type Description

JL S Z V - 6,10 W

- W — Outdoor installation
- 6,10 — Voltage class,kV
- V — VV type connection
- Z — Casting resin insulated
- S — Three phases type
- JL — Combination transformer

Technical Data

JLSZV-6,10 Main technical parameters of voltage

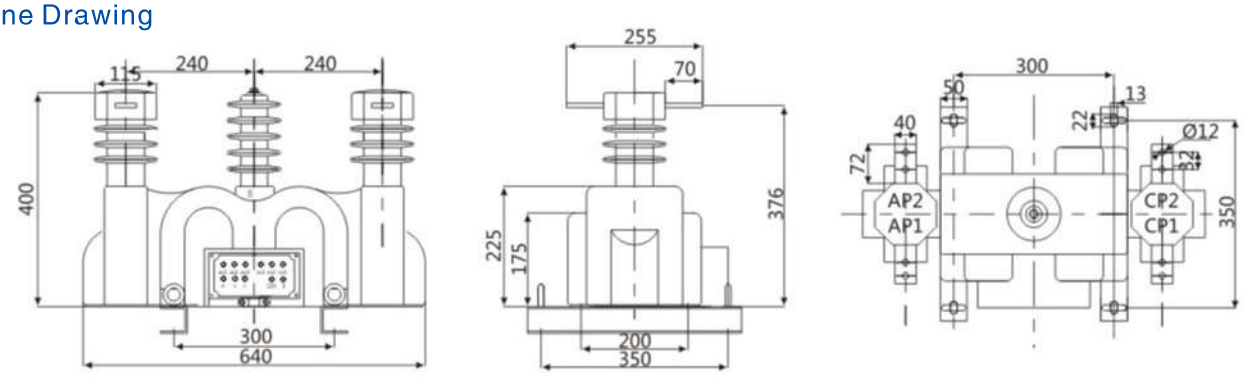
Type	Rated voltage ratio	Accuracy classes	Accuracy class and relative rated output			Limit output	Rated insulation level
			0.2	0.5	3.0		
JLSZV-6W	6/0.1	0.2、0.5 0.2/3、0.5/3	3*15	2*30	300	300	7.2/32/60
JLSZV-10W	10/0.1						12/42/75

JLSZV-6,10 Main technical parameters of currentpart

Type	Rated voltage ratio	Accuracy classes	Accuracy class and relative rated output			1S Rated short-time thermal current	Rated insulation level	Rated insulation level
			0.2S	0.5	10P or 5P			
JLSZV-6W	5-600/5	0.2S	3*10	3*15	3*15	100I1n	250I1n	7.2/32/60
JLSZV-10W	5-600/1	0.5						12/42/75

Note: If the required parameter is beyond the above range, it can be discussed and confirmed with us.

Outline Drawing



Notes

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