



A

POWER TRANSFORMER



People Electric
Appliance serves for people.



Rohs CB



ISO9001 ISO14001 OHSAS18001

SC(B)9,SCR9,SC(B)10, SCR10 SERIES DRY TYPE TRANSFORMER

GENERAL

SC(B9),SCR9,SC(B)10,SCR10 Resin casting dry type power transformer produced by our company is a new generation of product with low loss and noise. Product complies with standards: IEC726, GB6450 and GB/T10228-1997 S.

The product owns advantage such as low loss and noise, small size, less weight, moistureproof, anti-dirty, crack-proof, withstanding impulse, fireproof, overload capability, smaller partial discharge (less than 10 PC).

It has reasonable structure and convenient operation & maintenance. When the BWK series temperature controlling system is provided for dry type transformer, it has more functions including alarming caused by faults and abnormal temperature, automatic tripping and automatic starting (stopping) fans to ensure its safe operation.

It is applicable to transmission and distribution system, hotel, restaurant, high building, commercial center, stadium, petrochemical factory, metro, station, airport, drilling form in the sea and so on, particular to the places of load center, or the places where require fireproofing specially.

OPERATION CONDITION

1. Max ambient temperature: +40°C
2. Min ambient temperature: -5°C (the lowest storage temperature: -30°C)
3. daily mean temperature: < 30°C annual mean temperature < 20°C
4. We have the ability to supply you the transformer according to your requirements.



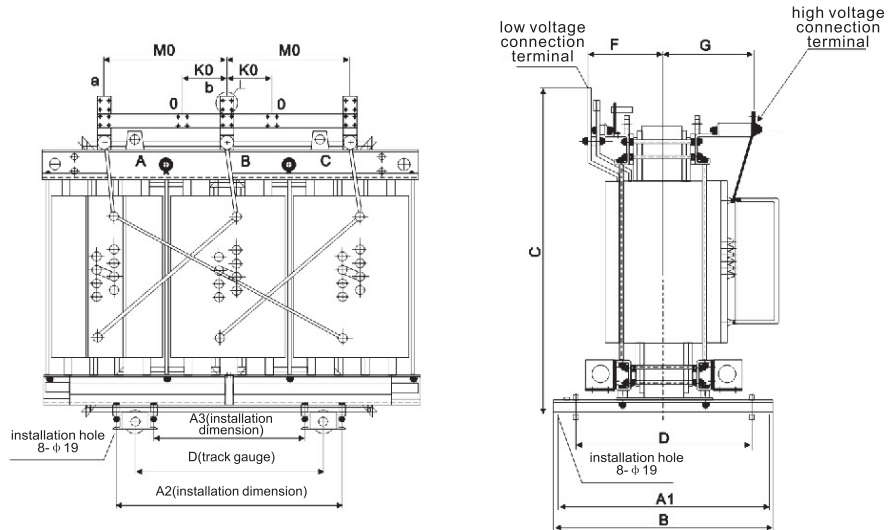
SC(B)9,SCR9,SC(B)10, SCR10 SERIES DRY TYPE TRANSFORMER



Rated Capacity (kVA)	Voltage combination		Low Voltage	Vector Group	No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Insulation EVEL	Track Gauge (mm)	Noise (dB)	Weight (Kg)	
	High voltage (kV)	Tapping Range											
30	6; 6.3; 6.6; 10; 10.5; 11;	±2× 2.5%; or± 5%	0.4	Yyn0 or Dyn11	210	615	1.2	4	F/F	500×500	42	315	
50					290	900	1.2				42	360	
80					390	1200	1.1				42	415	
100					430	1450	1.1				42	580	
125					500	1610	1.0				44	785	
160					580	1900	1.0				44	820	
200					665	2280	0.9				45	970	
250					780	2490	0.9				45	1090	
315					970	3140	0.8				660×660	46	1250
400					1100	3600	0.8			46		1590	
500					1300	4510	0.8			820×820		46	1740
630					1400	5430	0.8				47	2110	
630					1360	5510	0.6				47	2020	
800					1540	6430	0.6			820×820	49	2300	
1000					1870	7500	0.5				49	2830	
1250					2240	8960	0.5				6	49	3350
1600					2540	10850	0.5			1070×1070		50	3970
2000					3330	13360	0.4					50	4800
2500	4000	15800	0.4	52	5400								
315	35; 38.5	±2× 2.5%; or± 5%	0.4	Yyn0 or Dyn11	1140	3640	1.3	6	F/F	500×500	47	1570	
400					1330	4680	1.3				47	1810	
500					1565	5750	1.3				660×660	48	2130
630					1800	6700	1.2			48		2450	
800					2110	7940	1.2			49		3060	
1000					2345	9130	1.2			820×820	49	3720	
1250					2740	11060	1.1				49	4120	
1600					3130	13440	1.1				820×820	51	5270
2000					3675	15810	0.9			51		5990	
2500					4300	18930	0.9			53		6870	
800					2175	8165	1.2			6	820×820	49	3360
1000					2580	9500	1.2					49	4090
1250					3030	11210	1.1					7	1070×1070
1600					3565	13435	1.1			51	5800		
2000					4110	15810	1.0			51	6590		
2500					4690	18930	1.0			8	820×820	53	7550
3150					5865	21300	0.9					57	8900
4000					6805	25610	0.9					57	9520
5000	8130	30360	0.7	8	1070×1070	57	12840						
6300	9620	35480	0.7			59	13860						
8000	10500	39340	0.6			59	16100						
10000	12510	48245	0.6	9	820×820	61	2118						
12500	14860	58070	0.5			61	25600						
16000	18000	71760	0.5			61	35700						

SC(B)9, SCR9, SC(B)10, SCR10 SERIES DRY TYPE TRANSFORMER

SC9, SCB9, SCR9 SERIES EPOXY RESIN TYPE POWER TRANSFORMER

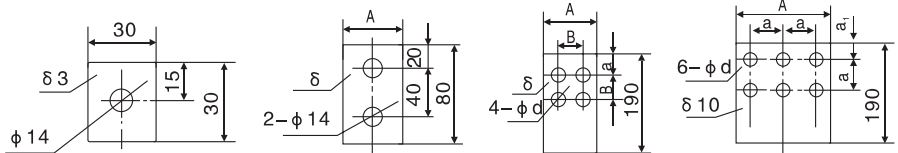


10kV CLASS SCR9, SC9, SCB9 SERIES OUTLINE INSTALLATION DIMENSION

Rated Capacity (kVA)	UK(%)																										
	30	50	80	100	125	160	200	250	315	400	500	630	630	800	1000	1250	1600	2000	2500								
	4									6																	
External dimensions	A	800	830	830	920	1050	1090	1150	1180	1230	1360	1360	1410	1470	1510	1600	1680	1740	1900	2010							
	B	350	500	500	500	660	660	660	660	770	960	960	960	960	960	960	1255	1255	1255	1255							
	C	780	930	980	1025	1085	1085	1090	1190	1127	1229	1307	1375	1316	1419	1480	1615	1764	1851	1955							
	D	300	450	450	450	550	550	550	550	660	820	820	820	820	820	820	1070	1070	1070	1070							
	E	710	860	910	940	1015	1005	1020	1064	1096	1098	1175	1215	1163	1223	1283	1381	1534	1611	1735							
	F	255	257	259	262	275	268	279	284	286	289	298	302	304	315	323	330	341	357	397							
	G	274	276	282	289	304	294	308	318	334	337	346	352	354	358	380	380	384	398	401							
	M0	270	280	280	300	345	330	355	375	390	425	435	450	470	485	515	540	560	605	650							
	K	100	100	150	150	150	150	150	150	150	160	160	160	160	180	180	260	260	260	325							
	A3	550	550	550	550	550	550	550	550	660	657	657	657	657	657	657	859	859	859	859							
A2	550	550	550	550	550	550	550	550	660	983	983	983	983	983	983	1281	1281	1281	1281								
A1	300	450	450	450	550	550	550	550	660	910	910	910	910	910	910	1025	1025	1025	1025								
low voltage terminal	Figure one						Figure two $\delta = 4$ A=40			Figure two $\delta = 5$ A=50			Figure two $\delta = 8$ A=60			Figure three $\delta = 8$ A=80 $\phi d = \phi 14$ B=40 a=15		Figure three $\delta = 10$ A=80 $\phi d = \phi 14$ B=40 a=20		Figure three $\delta = 8$ A=10 $\phi d = \phi 18$ B=50 a=25		Figure three $\delta = 10$ A=10 $\phi d = \phi 14$ B=40 a=15		Figure four A=120 $\phi d = \phi 18$ a=40 al=2		Figure four A=180 $\phi d = \phi 18$ a=60 al=3	

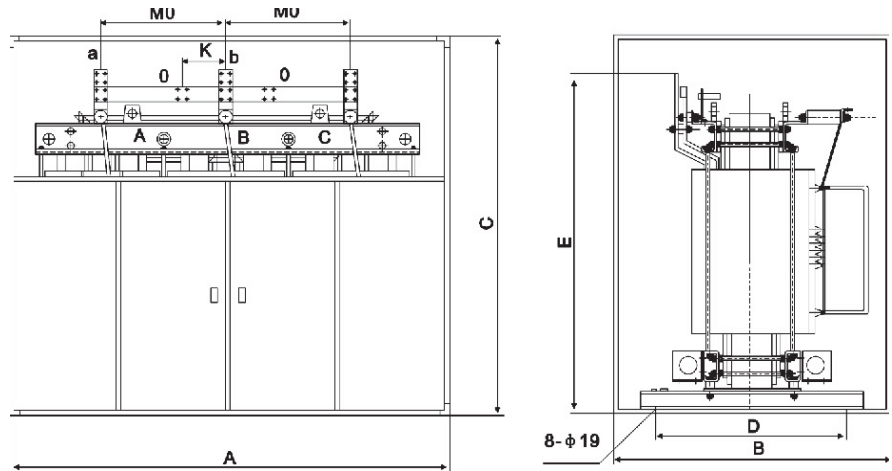
SC(B)9,SCR9,SC(B)10, SCR10 SERIES DRY TYPE TRANSFORMER

SC9,SCB9, SCR9 SERIES EPOXY RESIN TYPE POWER TRANSFORMER



OUTLINE DIMENSION OF 10KV SCR9, SC9, SCR9 SERIES POWER TRANSFORMER WITH SHELL

Rated Capacity (kVA)	UK(%)	A	B	C	D	E	K	M0
100	4	1250	950	1280	550	1025	150	300
125		1350	950	1330	550	1075	150	330
160		1400	950	1390	550	1085	150	345
200		1430	950	1400	550	1090	150	355
250		1490	950	1420	550	1190	150	375
315		1530	950	1470	550	1200	150	390
400		1650	1070	1525	660	1229	160	425
500		1680	1250	1595	820	1307	160	435
630		1710	1250	1875	820	1375	160	450
630		1770	1250	1635	820	1316	160	470
800		1810	1250	1715	820	1419	180	485
1000		1900	1500	1875	820	1480	180	515
1250	6	2000	1500	1910	1070	1615	260	540
1600		2060	1500	2050	1070	1764	260	560
2000		2200	1500	2130	1070	1851	260	605
2500		2350	1500	2260	1070	1955	325	650

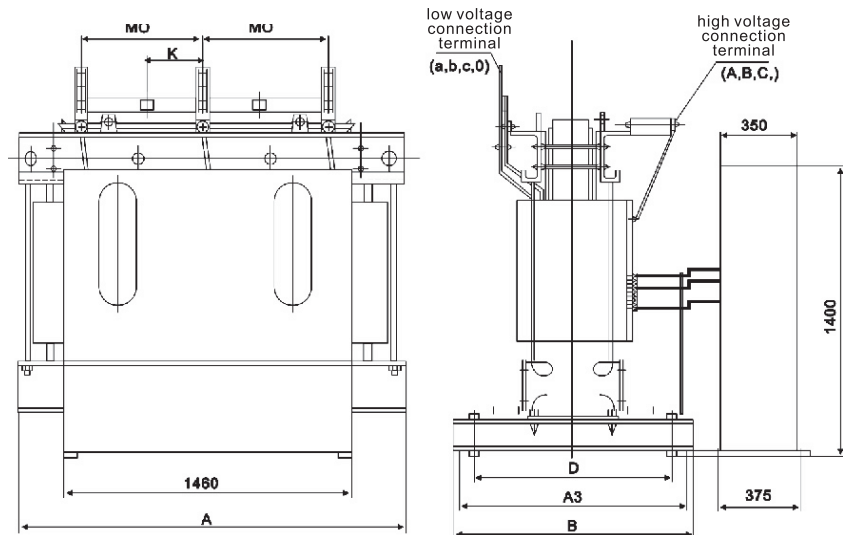


SC(B)9,SCR9,SC(B)10, SCR10 SERIES DRY TYPE TRANSFORMER

TECHNICAL SPECIFICATION FOR 10KV ON-LOAD VOLTAGE REGULATING EPOXY RESIN POWER TRANSFORMER



Rated Capacity (kVA)	Voltage combination		Low Voltage	Vector Group	No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Insulation Evel	Track Gauge (mm)	Noise (dB)
	High voltage (kV)	Tapping Range									
315	6; 6.3; 6.6; 10; 10.5; 11;	$\pm 4 \times 2.5\%$	0.4	Yyn0 or Dyn11	935	3155	0.8	4	H level or F level	660×660	45
400					1040	3705	0.8				46
500					1230	4500	0.8				46
630					1405	5360	0.8				47
630					1360	5470	0.6				47
800					1540	6465	0.6				48
1000					1870	7645	0.5	48			
1250					2220	9205	0.5	49			
1600					2540	10900	0.5	49			
2000					3330	13400	0.4	50			
2500					4000	15810	0.4	50			



10KV SCRZ9, SCZ9, SCBZ9 SERIES OUTLINE DIMENSION DRAWING

Rated capacity(kVA)	315	400	500	630	630	800	1000	1250	1600	2000	2500
UK(%)	4					6					
Size B	1685	1715	1875	1875	1875	1875	1875	1875	2170	2170	2170

Note: the balance dimension is same as non-load voltage regulating dry type transformer

SC(B)9,SCR9,SC(B)10, SCR10 SERIES DRY TYPE TRANSFORMER

TECHNICAL SPECIFICATION FOR 35KV SCB SERIES NO-LOAD VOLTAGE REGULATING DRY TYPE POWER TRANSFORMER



Rated Capacity (kVA)	Voltage combination		Low Voltage	Vector Group	No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Insulation Evel	Track Gauge (mm)	Noise (dB)
	High voltage (kV)	Tapping Range									
315	35	$\pm 2 \times 2.5\%$; or $\pm 5\%$	0.4	Yyn0 or Dyn11	1300	4410	2.0	6	F level	820×820	47
400					1530	5670				820×820	47
500					1800	6975				820×820	48
630					2070	8130	820×820			48	
800					2430	9630	820×820			49	
1000					2700	11070	820×820			50	
1250					3150	13410	1070×1070			50	
1600					3600	16290	1070×1070			51	
2000					4230	19170	1070×1070			53	
2500					4950	22950	1070×1070			54	

TECHNICAL SPECIFICATION FOR 10KV SCR10、SC10、SCB10 SERIES EPOXY RESIN POWER TRANSFORMER

Rated Capacity (kVA)	Voltage combination		Low Voltage	Vector Group	No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Insulation Evel	Track Gauge (mm)	Noise (dB)
	High voltage (kV)	Tapping Range									
30	6; 6.3; 6.6; 10; 10.5; 11;	$\pm 2 \times 2.5\%$; or $\pm 5\%$	0.4	Yyn0 or Dyn11	190	560	1.0	4	F/F	500×500	40
50					270	850	1.0				40
80					360	1100	0.9				40
100					400	1370	0.8				41
125					460	1530	0.75				41
160					530	1855	0.75				43
200					605	2100	0.7				43
250					705	2045	0.7				44
315					870	3030	0.6				44
400					970	3480	0.6				45
500					1150	4260	0.6	45			
630					1315	5130	0.5	46			
630					1270	5205	0.5	47			
800					1485	6070	0.5	47			
1000					1730	7095	0.4	48			
1250					2045	8460	0.4	48			
1600					2100	10240	0.4	49			
2000					2860	12620	0.3	50			
2500					3460	14995	0.3	50			

S9,S9-M SERIES THREE PHASE OIL-IMMERSED POWER TRANSFORMER

GENERAL

Different from normal type, S9,S9-M series three phase oil-immersed transformer is cooled by the corrugated plate of tank without conservator. It is applicable to 10kV-110KV, 50Hz power transmission and distribution system for power supply and lighting in industrial and agricultural field.

FEATURE

1. Energy saved :

Compared with old type S7, no-load loss decreases 10.25% averagely and on load current decreases 37.9%, which means 18.39% operation cost is reduced.

2. Long-term reliable service life:

Fully enclosed transformer tank and rim shall be bolted together or welded firmly. Isolation between oil and air keeps insulation away from moisture, which lowers insulation aging and improves service life.

3. Free from untanking:

Free from untanking before operation, so its cost is saved.

4. Free from maintenance

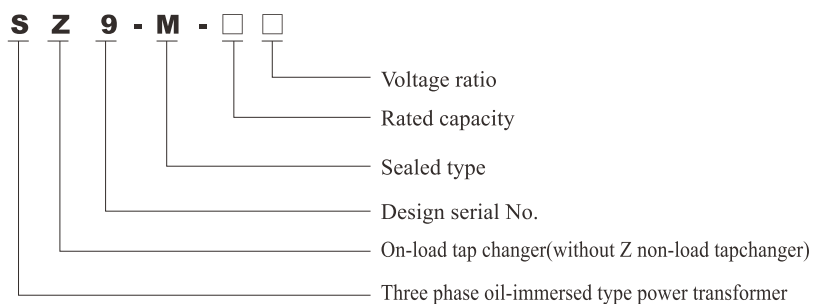
5. Low noise:

Impacted structure in design, new material and new technology adopted and low noise.

6. Small size and artistic appearance:

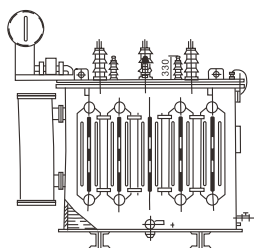
Owing to the corrugated plate used for radiation, oil volume is changed by adjustment and compensation through expansion and shrinkage of corrugated plate when the temperature of oil is changed. Corrugated tank is small size in good looking.

TYPE DESIGNATION



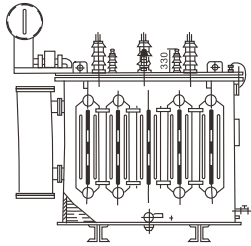
OPERATION CONDITION

- 1 Max ambient temperature: +40°C
2. Min ambient temperature: -30°C (outdoor type)
3. daily mean temperature: <30°C annual mean temperature <20°C



S9,S9-M SERIES THREE PHASE OIL-IMMERSED POWER TRANSFORMER

TECHNICAL SPECIFICATION FOR 10KV SA S9-M NO-LOAD VOLTAGE REGULATING OIL-IMMERSED TYPE POWER TRANSFORMER(Table 1)



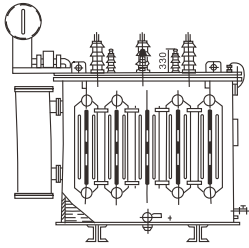
Rated Capacity (kVA)	Voltage combination				No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Weight			Track Gauge A×B (mm)	Outline dimension(mm) L×W×H
	High voltage (kV)	Tapping Range	Low Voltage	Vector Group					Insulation oil weight				
10	6; 6.3; 6.6; 10; 10.5; 11;	±2× 2.5%; or ± 5%	0.4	Yyn0 or Dyn11	70	300	2.4	4.0	75	50	175	400×400	680×450×910
20					100	500	2.3		115	65	235	400×400	720×580×960
30					130	600	2.1		150	70	300	400×400	770×600×1000
50					170	870	2.0		215	95	405	400×400	840×610×1030
63					200	1040	1.9		240	100	445	400×450	845×630×1050
80					250	1250	1.8		285	110	505	400×400	890×640×1070
100					290	1500	1.6		330	115	570	400×450	1060×620×1140
125					340	1800	1.5		375	135	650	400×550	1120×630×1180
160					400	2200	1.4		465	150	735	550×550	1200×645×1170
200					480	2600	1.3		525	160	895	550×550	1250×660×1210
250					560	3050	1.2		655	200	1075	550×650	1320×740×1270
315					670	3650	1.1		730	235	1240	550×650	1345×760×1305
400					800	4300	1.0		860	265	1375	550×650	1395×780×1360
500					960	5150	1.0		1060	340	1705	660×750	1520×840×1390
630					1200	6200	0.9		1225	350	2015	660×750	1535×850×1455
800					1400	7500	0.8		1430	440	2405	820×850	1650×950×1540
1000	1700	10300	0.7	1555	470	2500	820×850	1820×1100×1580					
1250	1950	12000	0.6	1820	620	3170	820×850	1840×1120×1605					
1600	2400	14500	0.6	2220	640	4600	820×900	1930×1160×1780					
2000	2900	17500	0.6	3095	975	5600	820×900	1980×1180×1950					

TECHNICAL SPECIFICATION FOR 35KV S9 , S9-M SERIES DUAL WINDING NO-LOAD VOLTAGE REGULATING OIL-IMMERSED TYPE POWER TRANSFORMER(Table 2)

Rated Capacity (kVA)	Voltage combination				No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Weight			Track Gauge A×B (mm)	Outline dimension(mm) L×W×H
	High voltage (kV)	Tapping Range	Low Voltage	Vector Group					Insulation oil weight				
50	35;	±2× 2.5%; or ± 5%		Yyn0 or Dyn11	0.24	1.08	2.0	6.5	280	280	780	660×660	1135×925×1730
63					0.27	1.4	1.8		325	300	855	660×660	1150×935×1835
80					0.32	1.6	1.8		410	350	960	660×660	1180×1030×1850
100					0.345	1.71	1.6		460	390	1110	660×660	1210×1080×1885
125					0.39	2.02	1.6		530	430	1300	660×660	1245×1090×1950
160					0.43	2.4	1.6		630	520	1660	660×660	1300×1100×2040
200					0.5	2.8	1.6		770	520	1720	660×660	1340×1120×2040
250					0.59	3.34	1.6		940	600	200	660×660	1420×1150×2090
315					0.7	4.02	1.5		980	690	2070	660×660	1710×1180×2170
400					0.84	4.86	1.5		1260	700	2430	820×820	1870×1110×2300
500					0.99	5.86	1.4		1600	970	3340	820×820	2380×1260×2420
630					1.2	7	1.4		1770	1040	3560	820×820	2480×1100×2450
800					1.42	8.4	1.3		2360	1160	4520	820×820	2560×1250×2820
1000					1.5	12	1		2400	1280	4950	820×820	2580×1250×2820
1250					1.8	14	0.9		2650	1350	5580	1070×1070	2600×1300×2820
1600					2.1	17	0.85		3150	1460	6330	1070×1070	2620×1330×300
2000	2.6	19	0.75	3400	1490	6400	1070×1070	2700×1420×3060					
2500	3.1	21	0.75	3700	1520	6700	1070×1070	2800×1520×3140					

S9,S9-M SERIES THREE PHASE OIL-IMMERSED POWER TRANSFORMER

TECHNICAL SPECIFICATION FOR 10KV S9, S9-M SERIES NO-LOAD VOLTAGE REGULATING OIL-IMMERSED TYPE POWER TRANSFORMER(Table 3)



Rated Capacity (kVA)	Voltage combination				No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Weight			Track Gauge A×B (mm)	Outline dimension(mm) L×W×H
	High voltage (kV)	Tapping Range	Low Voltage	Vector Group					Insulation oil weight				
630	6; 6.3; 10; 10.5; 11;	±2× 2.5%; or ± 5%	3; 3.15; 6.3;	Yd11	1200	6200	1.4	4.5	1430	410	3185	660×750	1690×965×1440
800					1400	7500	1.3		1640	665	3090	820×820	1885×1160×2125
1000					1700	10300	1.2		1900	700	3300	820×820	1925×1240×2710
1250					1950	12000	1.2		2180	870	4150	820×820	2010×1540×2180
1600					2400	14500	1.1		2720	900	4860	820×820	2100×1760×2305
2000					2900	17500	0.9		3000	940	5230	1070×1070	2120×1860×2315
2500					3430	20200	0.9		3435	1120	5755	1070×1070	2140×2056×2365
3150					4140	23700	0.8		4000	1550	7200	1070×1070	2470×2770×2555
4000					4980	28100	0.7		4790	1620	8500	1070×1070	2720×2480×2860
5000					6020	32300	0.7		5740	1730	9515	1070×1070	2810×2560×2920
6300	7050	36000	0.6		7410	2050	11610	1070×1070	2850×2930×3010				

TECHNICAL SPECIFICATION FOR 35KV, S9 SERIES NO-LOAD VOLTAGE REGULATING OIL-IMMERSED TYPE POWER TRANSFORMER(TABLE 4)



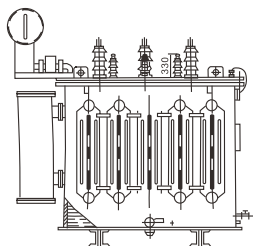
Rated Capacity (kVA)	Voltage combination				No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Weight			Track Gauge A×B (mm)	Outline dimension(mm) L×W×H
	High voltage (kV)	Tapping Range	Low Voltage	Vector Group					Insulation oil weight				
800	35; 38.5;	±2× 2.5%; or ± 5%	3.15; 6.3; 10.5;	Yd11	1300	9000	9000	6.5	1935	1020	3995	820×820	2435×1240×2300
1000					1500	12000	12000		2140	1055	4125	820×820	2482×1380×2320
1250					1800	14000	14000		2290	1085	4200	820×820	2532×1520×2350
1600					2100	17000	17000		2475	1175	4290	1070×1070	2582×1710×2440
2000					2600	19000	19000		2790	1295	5380	1070×1070	2632×1884×2537
2500					3100	21000	21000		3295	1425	5920	1070×1070	2691×2105×2597
3150					3800	24500	24500		4045	1735	7645	1070×1070	2842×2430×2617
4000					4600	29000	29000		7.0	4815	1950	8905	1070×1070
5000			5500	33000	33000	7.5	6060	2095	10175	1070×1070	2815×1720×3135		
6300			6500	37000	37000	7.5	7410	2525	12330	1475×1475	3240×2730×3040		
8000			8500	42000	42000	7.5	8900	2930	14855	1475×1475	3360×2695×3160		
10000			10000	48300	48300		10700	3350	18100	1475×1475	3400×3460×3320		
12500			12000	57300	57300		11840	5066	21505	1475×1475	4000×3896×4000		
16000			14500	70000	70000	Yd11	15260	7411	29800	1475×1475	4300×3250×3820		
20000			16000	83000	83000	YNd11	16030	7800	31500	2040×1475	4360×3600×4100		
25000			2000	103000	103000		19200	8900	36800	2040×1475	4420×3800×4180		
31500	25400	125000	125000		22100	9800	43000	2040×1475	4680×4100×4270				

TECHNICAL SPECIFICATION FOR 10KV SZ9-M SERIES DUAL WINDING ON-LOAD VOLTAGE REGULATING OIL-IMMERSED POWER TRANSFORMER(Table 5)

Rated Capacity (kVA)	Voltage combination				No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Weight			Track Gauge A×B (mm)	Outline dimension(mm) L×W×H
	High voltage (kV)	Tapping Range	Low Voltage	Vector Group					Insulation oil weight				
200	6;	±4×2.5%; or ±3×2.5%;	0.4	Yyno or Dyn11	480	2600	1.3	4.0	640	180	1100	550×550	1400×850×1500
250	6.3; 10;				560	3050	1.2		770	230	1290	550×550	1450×910×1560
315					670	3650	1.1		880	250	1500	550×550	1460×1050×1580

S9,S9-M SERIES THREE PHASE OIL-IMMERSED POWER TRANSFORMER

CONTINUED ON TABLE 5



Rated Capacity (kVA)	Voltage combination				No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Weight			Track Gauge A×B (mm)	Outline dimension(mm) L×W×H			
	High voltage (kV)	Tapping Range	Low Voltage	Vector Group					Insulation oil weight							
400	6; 6.3; 10;	±4×2.5%; or ±3×2.5%;	0.4	Y _{yno} or Dyn11	800	4300	1.0	4.0	1055	310	1720	550×750	1600×1120×1660			
500					960	5150	1.0		1235	330	2010	550×750	1660×1280×1720			
630					1200	6200	0.9		1520	660	2950	660×850	2010×1325×1930			
800					4.5				1400	7500	0.8	1760	880	3450	660 850	2060 1335 2010
1000									1700	10300	0.7	1935	980	4050	820 850	2050 1340 2070
1250									1950	12000	0.6	2285	980	4250	820 850	2120 1350 2130
1600									2400	14500	0.6	2720	1080	4500	820 900	2180 1370 2190
2000					5.5				2900	17500	0.6	3460	1220	620	820 900	2930 1970 2900

TECHNICAL SPECIFICATION FOR 35KV SZ9 SERIES ON-LOAD VOLTAGE REGULATING OIL-IMMERSED TYPE POWER TRANSFORMER(TABLE 6)

Rated Capacity (kVA)	Voltage combination				No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Weight			Track Gauge A×B (mm)	Outline dimension(mm) L×W×H						
	High voltage (kV)	Tapping Range	Low Voltage	Vector Group					Insulation oil weight										
2000	35; 38.5;	±3×2.5	6; 6.3; 10.5; 11;	Yd11	2900	20000	1.0	6.5	3340	1725	5785	1070×1070	3170×1820×2727						
2500					3300	22000	1.0		4070	2060	6570	1070×1070	3280×1980×2835						
3150					7.0				4000	26000	0.9	4620	2310	7480	1070×1070	3370×2160×3065			
4000									4900	30500	0.9	5140	2560	9160	1070×1070	3410×2470×3180			
5000				7.5				5800	35000	0.85	8.0	5600	2700	11000	1475×1070	3500×2800×			
6300								7000	39000	0.8		7330	3190	13000	1475×1475	4010×2960×3730			
8000								8.5				8900	44000	0.8	8700	3760	16400	1475×1475	4190×2980×3880
10000												10500	51000	0.75	9900	4100	18200	1475×1475	4350×3620×3725
12500								8.0				12600	60500	0.75	11300	4700	21500	1475×1475	4450×4000×3700
16000												15200	69300	0.7	16100	8200	30600	1475×1475	5030×3940×4057
20000												19500	89000	0.7	16800	8300	33400	2040×1475	5060×3980×4108
25000												21000	105000	0.6	20400	9800	39300	2040×1475	5080×4260×4168
31500				8.5				25700	125000	0.6	24300	11000	46000	2040×1475	5300×4300×4377				

INSULATION LEVEL

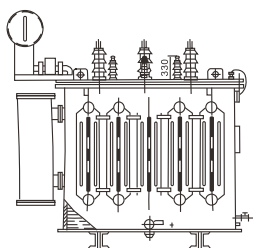
Type	Voltage rank	Rated Short-time power frequency withstand voltage(Effective value)	Rated lightning impulse withstand voltage(Peak value)
S9	6	25	60
S9-M	10	35	75
SZ9	35	85	200
SZ9-M			

TECHNICAL SPECIFICATION FOR 110KV S(F) SERIES 6300-31500KVA NO-LOAD VOLTAGE REGULATING OIL-IMMERSED TYPE POWER TRANSFORMER(TABLE 7)

Rated Capacity (kVA)	Voltage combination				No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Track Gauge A×B (mm)
	High voltage (kV)	Tapping Range	Low Voltage	Vector Group					
6300	110	±2×2.5%	6.3; 6; 10.5; 11;	Ynd11	9280	36900	1	10.5	1475×1475
8000					11200	45000	0.95		
10000					13200	53100	0.9		
12500					15600	63000	0.85		
16000					18800	77400	0.8		
20000					22000	93600	0.75		
25000					26000	110700	0.7		
31500					30800	133200	0.65		

S9,S9-M SERIES THREE PHASE OIL-IMMERSED POWER TRANSFORMER

TECHNICAL SPECIFICATION FOR 10KV S11 SERIES NO-LOAD VOLTAGE REGULATING OIL-IMMERSED TYPE POWER TRANSFORMER(Table 8)

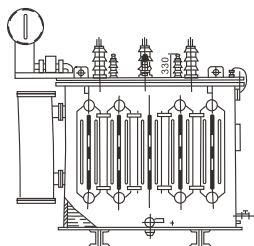


Rated Capacity (kVA)	Voltage combination				No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Weight			Track Gauge A×B (mm)	Outline dimension(mm) L×W×H
	High voltage (kV)	Tapping Range	Low Voltage	Vector Group					Insulation oil weight				
30	6; 6.3; 10; 10.5; 11;	±2× 2.5%; or ± 5%	0.4	Yyno	100	600	2.1	4.0	150	75	295	400×400	790×600×970
50					130	870	2.0		210	89	390	400×400	810×610×1040
63					150	1040	1.9		255	95	435	400×400	825×670×1060
80					180	1250	1.8		280	120	510	400×450	855×630×1110
100					200	1500	1.6		360	125	565	400×550	1090×620×1160
125					240	1800	1.5		410	135	685	400×550	1140×650×1245
160					290	2200	1.4		480	155	800	550×550	1160×650×1250
200					330	2600	1.3		563	168	900	550×550	1260×710×1250
250				400	3050	1.2	665	200	1100	550×650	1340×740×1320		
315				480	3650	1.1	751	230	1260	550×650	1345×760×1320		
400				570	4300	1.0	880	235	1360	550×650	1370×770×1380		
500				680	5150	1.0	1100	340	1730	660×750	1570×910×1030		
630				810	6200	0.9	1300	380	2095	660×750	1560×880×1510		
800				900	7500	0.8	1585	465	2590	820×850	1670×980×1600		
1000				1150	10300	0.7	1720	510	2920	820×850	1790×1090×1660		
1250				1360	12000	0.6	2075	625	3520	820×850	1810×1070×1765		
1600	1640	14500	0.6	2215	640	3705	820×850	1930×1160×1785					

TECHNICAL SPECIFICATION FOR 10KV SH15 AMORPHOUS ALLOYS NO-LOAD VOLTAGE REGULATING OIL-IMMERSED TYPE POWER TRANSFORMER(Table 9)

Rated Capacity (kVA)	Voltage combination				No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Weight			Track Gauge A×B (mm)	Outline dimension(mm) L×W×H
	High voltage (kV)	Tapping Range	Low Voltage	Vector Group					Insulation oil weight				
30	6; 6.3; 10; 10.5; 11;	±2× 2.5%; or ± 5%	0.4	Dyn11	33	600	1.7	4.0	225	100	420	400×400	790×600×970
50					43	870	1.3		305	120	535	400×400	810×610×1040
63					50	1040	1.2		350	130	595	400×400	825×670×1060
80					60	1250	1.1		405	135	660	400×450	855×630×1110
100					75	1500	1.0		430	155	770	400×550	1090×620×1160
125					85	1800	0.9		500	165	860	400×550	1140×650×1245
160					100	2200	0.7		595	185	990	550×550	1160×650×1250
200					120	2600	0.7		675	205	1110	550×550	1260×710×1250
250					140	3050	0.7	810	220	1275	550×650	1340×740×1320	
315					170	3650	0.5	945	245	1475	550×650	1345×760×1320	
400					200	4300	0.5	1195	280	1835	550×650	1370×770×1380	
500					240	5150	0.5	1375	335	2130	660×750	1570×910×1030	
630					320	6200	0.3	1610	470	2605	660×750	1560×880×1510	
800					380	7500	0.3	1910	575	3090	820×850	1670×980×1600	
1000					450	10300	0.3	2130	670	3570	820×850	1790×1090×1660	
1250					530	12000	0.3	2510	710	4140	820×850	1810×1070×1765	
1600	630	14500	0.3	3045	820	4950	820×850	1930×1160×1785					

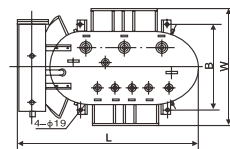
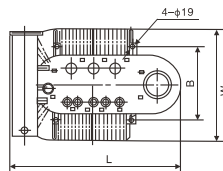
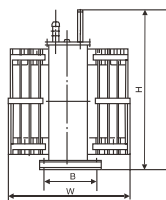
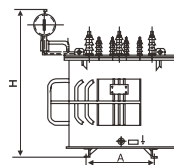
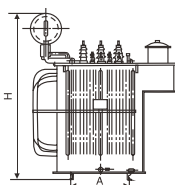
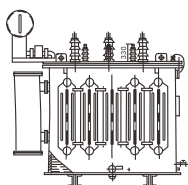
S9,S9-M SERIES THREE PHASE OIL-IMMERSED POWER TRANSFORMER



TECHNICAL SPECIFICATION FOR 10KV S11-M · D UNDERGROUND NO-LOAD VOLTAGE REGULATING OIL-IMMERSED TYPE POWER TRANSFORMER(Table 10)

Rated Capacity (kVA)	Voltage combination				No-load loss(W)	Load Loss (W)	No-Load Current (%)	Impedance Voltage (%)	Weight			Track Gauge A×B (mm)	Outline dimension(mm) L×W×H
	High voltage (kV)	Tapping Range	Low Voltage	Vector Group					Insulation oil weight				
400	6; 6.3; 10;	±4×2.5%; or ±3×2.5%	0.4	Yyno or Dyn11	800	4300	1.0	4.0	1055	310	1720	550×750	1600×1120×1660
500					960	5150	1.0		1235	330	2010	550×750	1660×1280×1720
630					1200	6200	0.9	1520	660	2950	660×850	2010×1325×1930	
800					1400	7500	0.8	1760	880	3450	660×850	2060×1335×2010	
1000					1700	10300	0.7	1935	980	4050	820×850	2050×1340×2070	
1250					1950	12000	0.6	2285	980	4250	820×850	2120×1350×2130	
1600					2400	14500	0.6	2720	1080	4500	820×900	2180×1370×2190	
2000					2900	17500	0.6	3460	1220	620	820×900	2930×1970×2900	

TRANSFORMER OUTLINE DIMENSION PLEASE SEE DRAWING



S9-M

SZ-9 SZ9-M

S9

- Note:1.The weight, track gauge,outline dimension of SZ9-M,SZ9:10KV level please see table 5;
35KV level please see table 6.
2.The weight, track gauge,outline dimension of S9-M,S9:10KV level please see table 3;
35KV level please see table 4.

ZBW SERIES COMBINATION TRANSFORMER SUBSTATION



GENERAL:

To meet requirement of urban network construction, ZBW series combination substation is designed by our company with its own advantage such as compact, complete unit, reliable and safe, convenient maintenance, artistic appearance and so on. It is applicable for the outdoor administration of power supply such as high building, residential area, stations and wharfs, ports, factory and park.

FEATURE :

1. The frame of substation is made of steel and angle iron galvanized to have the enough mechanical strength.
2. Cold-rolled steel sheet, stainless steel, aluminum alloy sheet or compound colorful sheet is used for the enclosure.
3. Each cubicle is separated by steel sheet to be different shape inside.
4. The illuminating devices are installed inside L.V.&H.V. cubicles and transformer cubicle for supervision and maintenance.
5. The cover is double-layer to prevent the heat from increasing temperature.
6. Natural ventilation is taken for transformer. When the temperature inside the transformer cubicle is higher than the set temperature, the fan installed on the top will start to work and control the temperature.
7. Sealing devices are put on the turning parts to be moisture-proof.
8. Perfect protection and convenient operation, particularly "five-proof" functions on H.V. side ensures the security of maintenance.
9. The product is good-looking and natural in certain environment

OPERATION CONDITION:

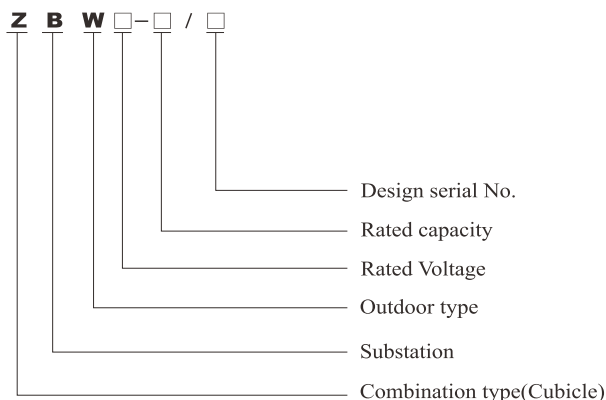
Altitude:<1000m

Ambient temperature:-25℃ — +40℃

Wind speed: <30m/s

Relative humidity: <90%

TYPE DESIGNATION:



ZBW SERIES COMBINATION TRANSFORMER SUBSTATION

MAIN TECHNICAL PARAMETER:

Table 1



No	Item	Unit	High voltage apparatus	Transformer	Low voltage apparatus
1	Rated voltage Ue	kV	7.2、12	6/0.4、10/0.4	0.4
2	Rated capacity Se	kvA		200~1250	
3	Rated current Le	kvA	200~630		100~3000
4	Rated drop out current	A kA	switch disconnector 400~630A subject to fuse if the combined appliance is adopted		15~63
5	Rated short time withstand current	kA	20(2S) 12.5(4S)	200~400kvA 400kvA	15 (1S) 30 (1S)
6	Rated crest withstand current	kA	31.5、50	200~400kvA 400kvA	30 63
7	Rated making current	kV	31.5、50		
8	1min power frequency withstand voltage	kV	phase to earth phase to phase42、30 across isolating distance 48、34	oil-immersed transformer:35/5min dry type:28/5 min	≤300V when 2kV 300、660V when 2.5kV
9	lightning impulse withstand voltage	kV	phase to earth phase to phase85、75 phase to earth phase to phase85、75	75	
10	Noise	dB		oil-immersed transformer:< 55 dry type:< 65	
11	Protection class		IP33	IP23	IP33
12	outline dimension	Choose different dimension according to the capacity and type of power transformer			

PLAN LAYOUT AND OUTLINE DIMENSION:

Plan layout please see drawing 1-1, 1-2, 1-3, 1-4.

“type includes” 1-1 and 1-2

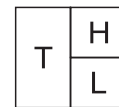
“type includes” 1-3 and 1-4



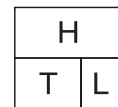
drawing 1-1



drawing 1-2



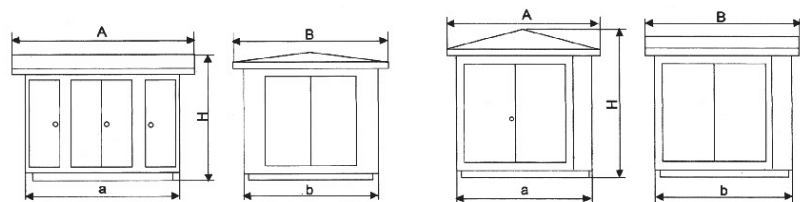
drawing 1-3



drawing 1-4

H: high voltage cubicle T-transformer cubicle L: Low voltage cubicle

OUTLINE DIMENSION PLEASE SEE DRAWING 2, DRAWING 3 AND TABLE 2



ZBW SERIES COMBINATION TRANSFORMER SUBSTATION



Type		A	a	B	b	H	The most suitable site
Three phase	100-630kVA	4140	3750	2590	2290	2320	Mine , oil field
	800-1250kVA	5184	4880	2500	2290	2626	Residential area
	50-400kVA	2500	2300	2400	2200	2320	
Single phase	≤50kVA	2500	2300	1260	1060	2215	Power supply for street lamp
	80-100kVA	2500	2300	1840	1640	2215	

Note: above dimension only for your information during design period, the dimension subject to dimension of objective

ORDERING NOTES :

1. Type of substation
2. Type of transformer
3. H.V/ L.V. wiring mode, type and parameters of chosen components
4. Regarding to enclosure color, if there is no special requirement by customer, it would be dark green.





B

TRANSFORMER



People Electric
Appliance serves for people.



Rohs CB



JDC5-220、JDCF-220POTENTIAL TRANSFORMER

STANDARD:

220KV potential transformer which produced by our corp comply with GB1207-1997 <potential transformer> and IEC 186

TYPE DESIGNATION:

J: potential transformer
 D: single phase
 C: cascade type winding with zero sequence
 F: Dividual measuring and protective winding
 220: rated voltage(KV)

INSULATION LEVEL PLEASE(Table 1、 Table 2):

dielectric loss factor: $\leq 0.5\%$ when the ambient temperature is 20 and voltage is 146KV
 Partial discharge: measuring the partial discharge after finished all insulating test.(applied voltage:316KV, duration:60S
 Permissible discharge ≤ 5 measuring voltage :175KV

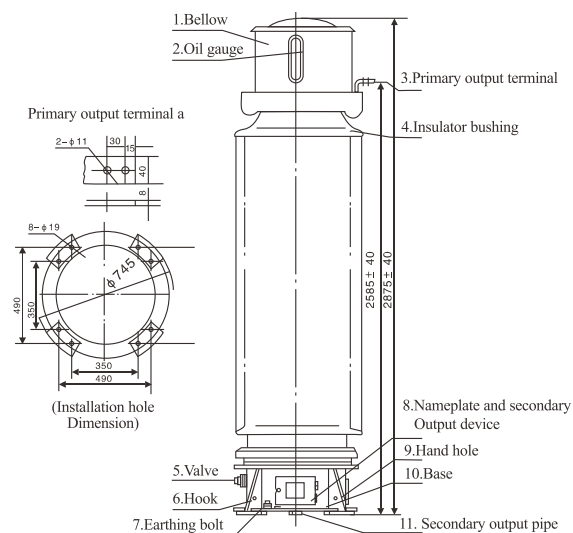
OPERATION CONDITION:

Ambient temperature $-30^{\circ}\text{C} \sim +40^{\circ}\text{C}$
 Altitude: <1000m
 Outdoor

ORDERING NOTES :

1. Type of PT
2. Rated voltage
3. Accuracy class
- 4.operation condition
- 5.If you have special requirements, please mention them in your order .

OUTLINE DIMENSION:



JDC5-220、JDCF-220POTENTIAL TRANSFORMER

INSULATION LEVEL:

Table 1

Inside insulation withstand voltage			Outside insulation withstand voltage				Induced test voltage
Short time power frequency withstand voltage	Rated lightning impulse withstand voltage		short time power frequency withstand voltage		Rated lightning impulse withstand voltage		Applied 395KV with frequency 150HZ one times
	full wave	cutting wave	dry test	wet test	full wave	cutting wave	
395	950	1050	360	360	850	850	No breakdown



Table 2

Breakdown voltage (kV)	Moisture(PPm)	Dielectric loss factor(90°C,1kV)
50	20	0.3%

MAIN TECHNICAL PARAMETER:

Table 3

Rated voltage ratio	Max. operation voltage(kV)	Rated frequency	Accuracy class and Relevant burden				Limited burden of secondary winding(va)	Residual voltag Winding	
			0.2	0.5	1	3P		Accuracy Class	Rated burden
$220000/\sqrt{3}/100/\sqrt{3}/100$	252	50~60	150	300	500	500	2000	3P	300



OUTLINE AND INSTALLATION DIMENSION

Table 4

Outline dimension	Installation dimension(mm)	Oil weight	Net weight	Gross weight
680×765×2850	8 φ 19,top circle φ 745 uniform distribution 350×490/350×490	305	1150	1300

LB7-220 CURRENT TRANSFORMER

STANDARD:

220KV current transformer which produced by our corp comply with GB1208-1997< current transformer> and IEC 185

TYPE DESIGNATION:

- L: current transformer
- B: with protective winding
- 7: design serial no 220: rated voltage (220KV)

INSULATION LEVEL:

1. power-frequency withstand voltage of primary winding-final screen , power frequency withstand voltage of secondary winding-earth:395KV for 1Min
2. power frequency withstand voltage for outside insulation, dry test, wet test: 395KV for 1min
3. power frequency withstand voltage of final screen-secondary winding and earth
4. rated lightning impulse withstand voltage , Full wave: 950KV, 1.2、50us
5. dielectric loss factor: $\leq 0.5\%$ when the ambient temperature is 20 and voltage is 146KV
6. Permissible discharge ≤ 5 measuring voltage :175KV
7. Oil withstand voltage > 50 KV ; moisture < 20 ppm, under temperature :90,votage:3KV

OPERATION CONDITION:

Ambient temperature $-30^{\circ}\text{C} - +40^{\circ}\text{C}$

Altitude: < 1000 m

Outdoor

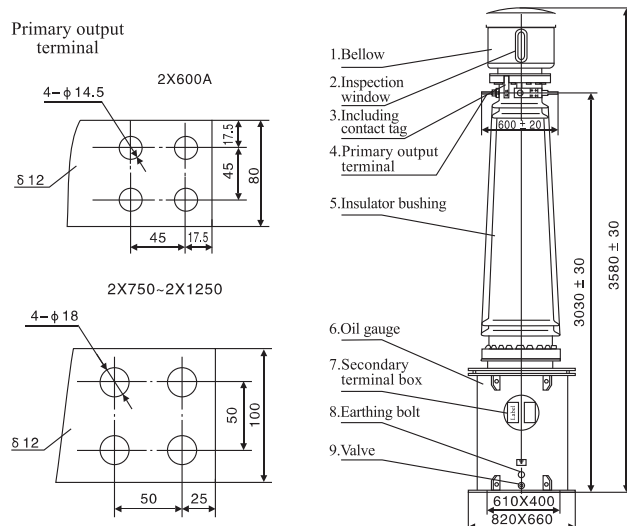
APPLICATION PURPOSE:

The CT is used to measure and relay protection in 220KV circuit.

MAIN TECHNICAL PARAMETER(PLEASE SEE TABLE 1 AND TABLE 2)

FS < 10 , composite error under accuracy limit factor < 10 .short time thermal current for 3S: 2X21KA
dynamic current: 2×55 KA

OUTLINE DIMENSION:



LB7-220 CURRENT TRANSFORMER

MAIN TECHNICAL PARAMETER:



Table 1

Rated voltage ratio(kV)	Max. operation voltage(kV)	Rated frequency(Hz)	Rated primary current (a)	Rated secondary Current(a)
220	252	50	600-1200	5

Table 2

Rated current ratio	Secondary combination	Accuracy class	Rated secondary output		Accuracy Limit factor
			Full number of turns.	Middle tapping	
600-1200/5	0.2P/10P/10P/10P/10P 0.2/10P/10P/10P/10P/10P	0.2P	50		-
		10P	50	30	20
600-1200/5(10P ₂ 300-600/5)	0.2P/10P/10P/10P/10P 0.2/10P/10P/10P/10P/10P	0.2s	50	30	-
		0.2	40		-
		10P ₁	50	50	20
		10P ₂	50		25
			12.5		

OUTLINE AND INSTALLATION DIMENSION

Table 3

Outline dimension	Installation dimension(mm)	Oil weight	Net weight	Gross weight
820×660×3850	610×400	350	1200	1400

JDC6-110、JDCF-110 POTENTIAL TRANSFORMER

STANDARD:

220KV potential transformer which produced by our corp comply with GB1207-1997<potential transformer> and IEC 186

TYPE DESIGNATION:

J-potential transformer

D-single phase

C- (the second letter) cascade type winding

C- (the third letter) insulator bushing type or cascade-type with residual voltage winding

(6)(1): design serial No

M-sealed F-Dividual measuring and protective winding 110: rated voltage(KV)

INSULATION LEVEL(PLEASE TABLE 1, TABLE 2)

1. power-frequency withstand voltage of primary winding-final screen , power frequency withstand voltage of secondary winding-earth:395KV for 1Min
2. power frequency withstand voltage for outside insulation, dry test, wet test: 395KV for 1min
3. power frequency withstand voltage final screen-secondary winding and earth
4. rated lightning impulse withstand voltage , Full wave: 950KV, 1.2、50us
5. dielectric loss factor: $\leq 0.5\%$ when the ambient temperature is 20°C and voltage is 146KV
6. Permissible discharge ≤ 5 measuring voltage :175KV
7. Oil withstand voltage $> 50\text{KV}$; moisture $< 20\text{ppm}$, under temperature :90,votage:3KV

OPERATION CONDITION:

Ambient temperature $-30^{\circ}\text{C} \sim +^{\circ}\text{C} 40$

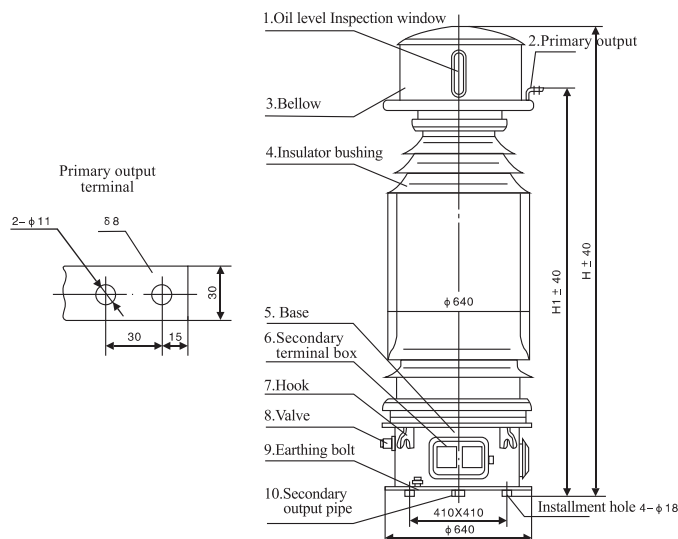
Altitude: $< 1000\text{m}$

Outdoor

ORDERING NOTES :

1. Type of PT
2. Rated voltage
3. Accuracy class
4. operation condition
5. If you have special requirements, please mention them in your order .

OUTLINE DIMENSION:



JDC6-110、JDCF-110 POTENTIAL TRANSFORMER

INSULATION LEVEL

Table 1



Inside insulation withstand voltage(kV)			Outside insulation withstand voltage(kV)			Induced test voltage
short time power frequency withstand voltage	rated lightning impulse withstand voltage		short time power frequency withstand voltage		rated lightning impulse withstand voltage	Applied 220KV with frequency 150HZ,40S one times
	full wave	cutting wave	dry test	wet test		
200	480	530	185	185	450	No breakdown

Table 2

Breakdown voltage (kV)	Moisture(PPm)	Dielectric loss factor(90℃,1kV)
50	20	<0.3%

MAIN TECHNICAL PARAMETER:



Table 3

Rated voltage ratio(V)	Max. operation voltage(kV)	Rated frequency (Hz)	Accuracy class and relevant burden (VA)				Limited burden of secondary winding (VA)	Residual voltage winding	
			0.2	0.5	1	3P		Accuracy class	Burden (VA)
$\frac{110000}{\sqrt{3}} / \frac{100}{\sqrt{3}} / \frac{100}{\sqrt{3}} / 100$	$126/\sqrt{3}$	50	150	300	500	500	2000	3P	500
$\frac{110000}{\sqrt{3}} / \frac{100}{\sqrt{3}} / 100$	$126/\sqrt{3}$	50	150	300	500	500	2000	3P	500

OUTLINE AND INSTALLATION DIMENSION

Table 4

Outline dimension	Installation dimension(mm)	Oil weight (kg)	Gross weight (kg)
630×625×1780	410×410	133	600

LB6-110 CURRENT TRANSFORMER

STANDARD:

110KV current transformer which produced by our corp comply with GB1208-1997<current transformer> and IEC 185 Type designation

TYPE DESIGNATION:

L: Current transformer
 B: With protective class
 6: Design serial No.
 110(132) Rated voltage (kV)
 TA Dry tropical zone
 TH: Wet tropical zone W1,W2,W3: Pollution level
 GY: altiplano type

INSULATION LEVEL

- 1.Power frequency withstand voltage for outside/inside insulation, dry test, wet test:220/185KV for 1min
- 2.Permissible discharge ≤ 5 measuring voltage :87.3KV
- 3.Rated lightning impulse withstand voltage , Full wave: 450KV, 1.2、50us
- 4.Dielectric loss factor: $\leq 0.5\%$ when the ambient temperature is 20°C ,voltage is 10 KV, relative humidity 60%
- 6.Oil withstand voltage>50KV ; moisture<20ppm, under temperature :90°C,votage:3KV

OPERATION CONDITION:

Ambient temperature -30°C - +40°C
 Altitude: <1000m

Outdoor

APPLICATION PURPOSE

The CT is used to measure and relay protection in 110KV circuit.

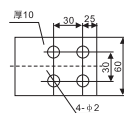
ORDERING NOTES

1. Type of CT
2. Current ratio
3. Accuracy class
4. Operation condition
5. If you have special requirements, please mention them in your order .

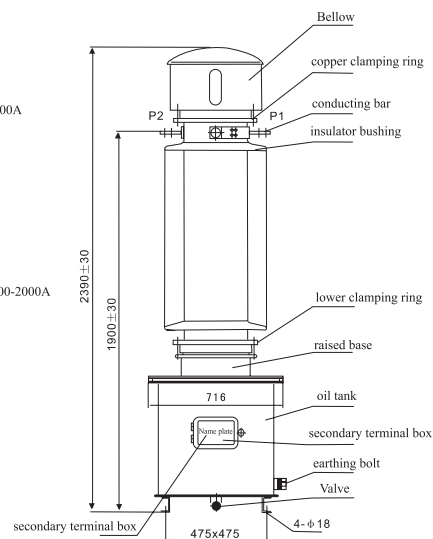
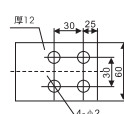
OUTLINE DIMENSION:



P1P2 dimension of primary conducting bar 50-100-600-1200A



P1P2 dimension of primary conducting bar 750-1500-1000-2000A



LB6-110 CURRENT TRANSFORMER

MAIN TECHNICAL PARAMETER:



Table 1

Rated voltage (kV)	Max. operation voltage(kV)	Rated frequency (Hz)	Rated primary current(A)	Rated secondary current(A)	Secondary combination
$110/\sqrt{3}$	$126/\sqrt{3}$	50	$2 \times 50-2 \times 1000$	5 and 1	10P/10P/0.5/0.2(0.2s)

Table 2

Secondary winding No	1	2	3	4
mark of secondary terminal	1S1-1S2	2S1-2S2	3S1-3S2	4S1-4S2
	10P		0.5	0.2S(0.2S)
rated secondary output	50		50	40
FS			<10	<10
Accuracy Limit factor ALF	>10			



Table 3

Rated primary current (A)	50-100	75-150	100-200	150-300	200-400	300-600	400-800	$\geq 500-1000$
short time thermal current(kA)	5.3-10.6	7.9-15.8	10.5-21	15.8-31.6	21-42	31.5-45	31.5-45	31.5-45
dynamic current(kA)	13-26	20-40	27-54	40-80	54-108	80-115	80-115	80-115

OUTLINE AND INSTALLATION DIMENSION

Table 4

Rated primary current (A)	Height (mm)	Oil weight(kg)	Net weight(kg)	Installation dimension
$2 \times 50-2 \times 400$	2540	210	725	475×475
$2 \times 500-2 \times 750$	2560	255	770	
2×1000		230	830	

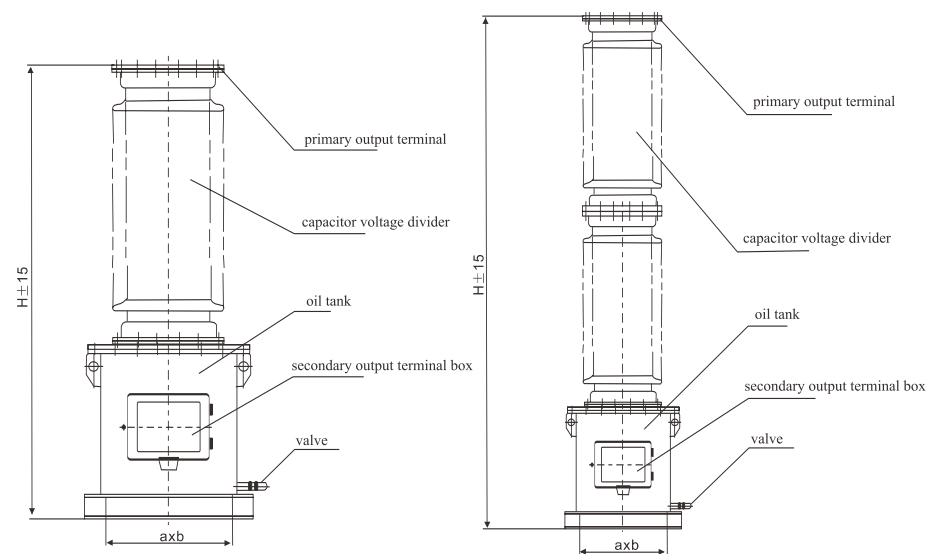
TYD110 3-0.01H、CAPACITIVE POTENTIAL TRANSFORMER

MAIN TECHNICAL PARANETERS



Type	Rated voltage	Rated capacitance	High voltage capacitance	Medium voltage capacitance	Rated burden and accuracy class	Weight (kg)	Outline dimension Length × Width × height	Installation dimension a × b (mm)
TYD110 $\sqrt{3}$ -0.007(H)	110 $\sqrt{3}/0.1/\sqrt{3}/0.1$	0.007	0.00875	0.035	150/0.5 100/3P	510 530	790×700×1900	530×530 4- ϕ 24
TYD110 $\sqrt{3}$ -0.008(H)	110 $\sqrt{3}/0.1/\sqrt{3}/0.1$	0.008	0.10	0.040	150/0.5 100/3P	510 530	790×700×1900	530×530 4- ϕ 24
TYD110 $\sqrt{3}$ -0.01(H)	110 $\sqrt{3}/0.1/\sqrt{3}/0.1$	0.01	0.0125	0.05	150/0.5 100/3P	510 530	790×700×1900	530×530 4- ϕ 24
TYD110 $\sqrt{3}$ -0.015(H)	110 $\sqrt{3}/0.1/\sqrt{3}/0.1/\sqrt{3}/0.1$	0.015	0.01891	0.07250	150/0.2 150/0.5 100/3P	590 620	790×700×2000	530×530 4- ϕ 24
TYD110 $\sqrt{3}$ -0.02(H)	110 $\sqrt{3}/0.1/\sqrt{3}/0.1/\sqrt{3}/0.1$	0.02	0.02885	0.06522	150/0.2 150/0.5 100/3P	590 620	790×700×2000	530×530 4- ϕ 24
TYD220 $\sqrt{3}$ -0.0035(H)	220 $\sqrt{3}/0.1/\sqrt{3}/0.1$	0.0035	0.00389	0.03500	150/0.5 100/3P	680 750	790×700×3200	530×530 4- ϕ 24
TYD220 $\sqrt{3}$ -0.005(H)	220 $\sqrt{3}/0.1/\sqrt{3}/0.1$	0.005	0.00556	0.05	150/0.5 100/3P	680 750	790×700×3200	530×530 4- ϕ 24
TYD220 $\sqrt{3}$ -0.01(H)	220 $\sqrt{3}/0.1/\sqrt{3}/0.1$	0.01	0.01181	0.06522	150/0.2 150/0.5 100/3P	850 920	790×700×3500	530×530 4- ϕ 24

OUTLINE DIMENSION:



JDQXF-35、110、220 (W2) GAS INSULATION WITH SF6 PT

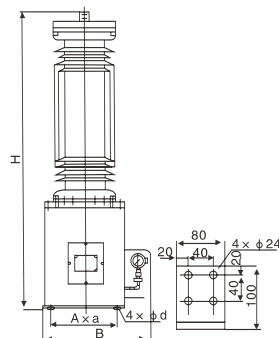
TYPE DESIGNATION:

J: Potential transformer
 D: Single-phase
 Q: Gas insulation with SF6
 X: With residual voltage winding
 6: Design No.
 35,110220(245): Rated voltage(kV)
 TA: Dry tropical zone
 TH Wet tropical zone
 W1,W2,W3: Pollution level

MAIN TECHNICAL PARAMETER:

NO	Type	Unit	JDQXF-220W2 JDQXF-252W2	JDQXF-110W2 JDQXF-126W2	JDQXF-220W2 JDQXF-252W2
1	Rated primary voltage	kV	220/√3	110/√3	35/√3
2	Max voltage	kV	252	126	40.5
3	Power frequency withstand voltage	kV	395	200	95
4	lightning impulse withstand voltage (full wave) 1.2/50us	kV	950	480	200
5	lightning impulse withstand voltage (cutting wave)	kV	1050	530	220
6	Rated frequency	Hz	50-60	50/60	
7	Flashover distance	mm	≥2210	≥1100	≥3600
8	Creepage distance	mm	≥6300	≥3150	≥1050
9	Rated voltage factor		1.2 continuous times ,1.5 times 30s		1.2continuous times ,1.9 times 8h
10	Rated secondary voltage	V	10/√3		
11	voltage of residual voltage winding	V	100		
12	Accuracy class		0.2/0.5/3P,0.2/3P/3P		
13	rated output	VA	0.2 Class 100VA 0.5 Class 200VA 3P Class 200-300VA		0.2 Class 0.5 Class 50-100VA 3P Class 6P Class 100-150VA
14	Heat limit output	VA	2000		
15	Gas rated operating pressure	Mpa	0.45		
16	Min operating pressure	Mpa	0.4		
17	Partial discharge level		≤3pc		
18	Dielectric loss factor		Under 10kV Voltage,tan δ ≤0.005		
19	Annual leakage rate		≤0.5%		
20	Moisture		≤100		
21	Outline dimension	mm	860×920×3450	720×740×2010	520×570×1090
22	Installation hole		4× φ 26	4× φ 22	4× φ 22
23	Installation dimension	mm	560×560	460×460	315×315
24	Weight	kg	720(composite house)/1050	415(composite house)/535	170

OUTLINE DIMENSION:



type	H	B	A×a	D
JDQXF-220W2	3450	920	560×560	26
JDQXF-110W2	2010	740	460×460	22
JDQXF-35W2	1090	605	315×315	22

LRGBJ-35~220kV DRY TYPE CURRENT TRANSFORMER

OPERATION CONDITION

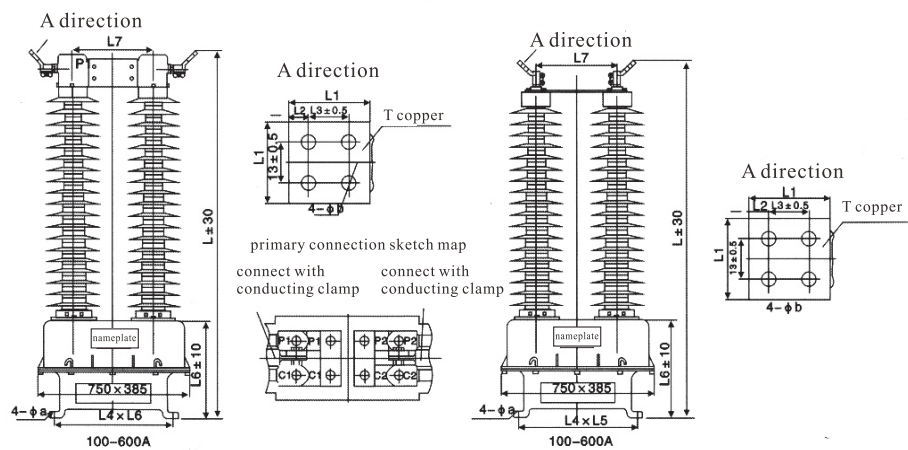
It can be used in outdoor and indoor
 Ambient temperature: +40°C — -40°C
 Altitude: <1000m
 Pollution level: II, III, IV.

TECHNICAL PARAMETER

Rated voltage: 32-220kV
 Rated current: 100-2500A
 Rated frequent: 50Hz
 Current ratio: 100-2500/5A
 rated output capacity
 Accuracy class: 0.2s, 0.2.....
 Accuracy limit factor: 5, 10, 15, 20, 25, 30
 FS: 5, 10
 Quantity of winding: 1-6



OUTLINE DIMENSION DRAWING:



LRGBJ-35~220kV DRY TYPE CURRENT TRANSFORMER



Type	Rated voltage (kv)	Rated current (a)	Main dimension											Creepage distance (mm)	Weight (kg)
			L	L1	L2	L3	L4	L5	L6	L7	A	B	T		
LRGBJ-35/100-600	35	100-600	1015	80	20	40	400	360	350	320	15	14	12	1015	90
LRGBJ-35/800-1000	35	800-1000	1015	80	20	40	400	360	350	320	15	14	12	1015	90
LRGBJ-35/1250	35	1250	1015	80	20	40	400	360	350	320	15	14	14	1015	90
LRGBJ-35/1600	35	1600	1030	100	25	50	400	360	350	320	15	14	14	1015	90
LRGBJ-35/2000	35	2000	1060	120	30	60	400	360	350	320	15	18	14	1015	90
LRGBJ-66/100-600	66	100-600	1550	80	20	40	580	200	551	400	14	14	12	1925	200
LRGBJ-66/800-1000	66	800-1000	1550	80	20	40	580	200	551	400	14	14	12	1925	200
LRGBJ-66/1250	66	1250	1550	80	20	40	580	200	551	400	14	14	14	1925	200
LRGBJ-110/100-600	110	100-600	1785	80	20	40	580	200	551	400	14	14	12	3200	240
LRGBJ-110/800-1000	110	800-1000	1785	80	20	40	580	200	551	400	14	14	12	3200	240
LRGBJ-110/1250	110	1250	1785	80	20	40	580	200	551	400	14	14	14	3200	240
LRGBJ-110/1600	110	1600	1800	100	25	50	580	200	551	400	14	14	14	3200	240
LRGBJ-110/2000	110	2000	1830	120	30	60	580	200	551	400	14	18	14	3200	240
LRGBJ-220/100-600	220	100-600	2720	80	20	40	480	580	760	500	19	14	12	6300	440
LRGBJ-220/800-1000	220	800-1000	2720	80	20	40	480	580	760	500	19	14	12	6300	440
LRGBJ-220/1250	220	1250	2720	80	20	40	480	580	760	500	19	14	14	6300	440
LRGBJ-220/1600	220	1600	2760	100	25	50	480	580	760	500	19	14	14	6300	440
LRGBJ-220/2000-2500	220	2000-2500	2790	120	30	60	480	580	760	500	19	18	14	6300	440

LVQB-110W2 COMPOSITE HONSGING SF6 CURRENT TRANSFORMER

OUTLINE DIMENSION:



Type	Rated primary current (A)		Rated secondary current (A)	Measurement class			Protective class			Rated short time thermal current for (kA/3S)	Rated dynamic current for (kA)	Total weight (kg)						
	2	1		Winding quantity accuracy class	FS	Rated output (VA)	Winding quantity accuracy class	Accuracy limit factor	Rated output (VA)									
LVQB-110W2	2×150	300	5	1 group/ 0.5 or 0.5S or 0.2 or 0.2S	≤0.5 or ≤10	40	20	5 group / 5P or 10P	15 or 20	50	25	510						
	150-300	600											30	-	-	-	20	50
	2×200	400											-	-	-	-	-	-
	200-400	800																
	2×300	600											-	-	-	-	-	-
	300-300	1200																
	2×400	750											-	-	-	-	-	-
	400-800	1500																
	2×600	1000											-	-	-	-	-	-
	600-1200	2000																
2×750	1250	-	-	-	-	-	-											
750-1500	2500																	
2×1000	1000-2000	-	-	-	-	-	-	-	-	-	-	-						
2×1250	1250-2500	-	-	-	-	-	-	-	-	-	-	-						

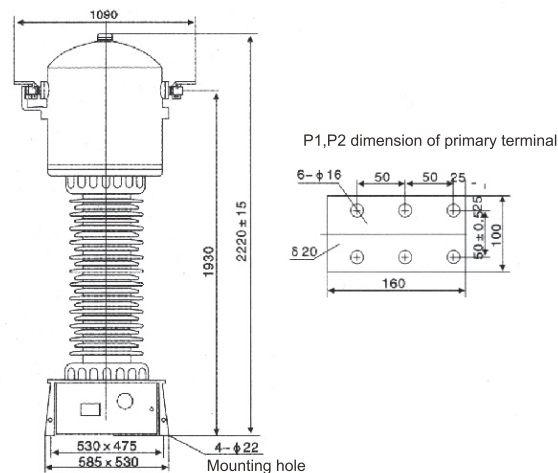
Note: insulation level: power frequency withstand voltage:230KV

Lightning impulse withstand voltage:550KV

The current ratio can be changed via series-parallel connection primary winding,

for example:2×600/5, or via middle tapping secondary winding for example: 600-1200/5

OUTLINE DIMENSION:



LVQB-110W2 composite housing SF6 current transformer

LVQB-220W2 COMPOSITE HOUSING SF6 CURRENT TRANSFORMER

OUTLINE DIMENSION:



Type	Rated primary current (A)		Rated secondary current (A)	Measurement class			Protective class			Rated short time thermal current for (kA/3S)	Rated dynamic current for (kA)	Total weight (kg)		
	2×300 300-300	400 400-800		Winding quantity accuracy class	FS	Rated output (VA)		Winding quantity accuracy class	Accuracy limit factor				Rated output (VA)	
						Full number of turns	Middle tapping						Full number of turns	Middle tapping
LVQB-220W2	2×300 300-300	400 400-800	5	1 group/ 0.5 or 0.5S or 0.2 or 0.2S	≤5 or ≤10	50	25	1 group /5P or 10P	15 or 20	50	30	31.5	80	1000
	2×600 600-1200	750 750-1500				60	30			60	30			
	2×1000 1000-2000	1250 1250-2500												
	2×400 400-800	600 600-1200												
	2×750 750-1500	1000 1000-2000												
	2×1250 1250-2500	1500 1500-3000												

Note: insulation level: power frequency withstand voltage:395KV

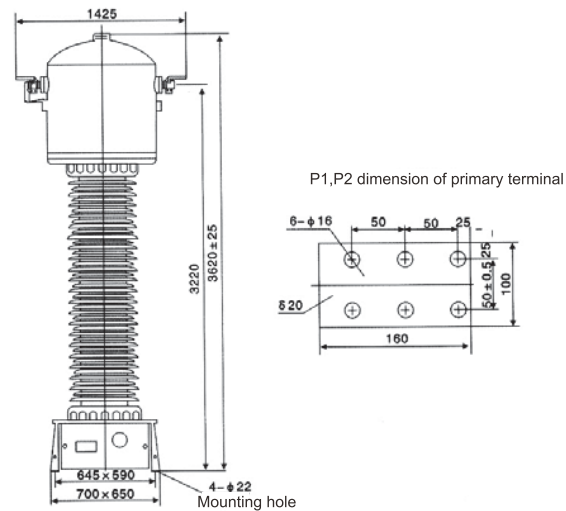
Lightning impulse withstand voltage:950KV

The current ratio can be changed via series-parallel connection primary winding,

for example:2×600/5, or via middle tapping secondary winding for example: 600-1200/5



OUTLINE DIMENSION:



LVQB-220W2 composite housing SF6 current transformer

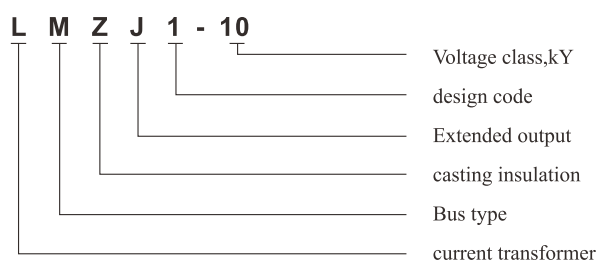
LMZ-10(LMZJ 1-10) CURRENT TRANSFORMER

DESCRIPTION



LMZ-10, LMZJ 1-10 the current transformer is bus type and epoxy resin insulated. It is designed for current power measurement and relay protection in a power system with rated frequency 50Hz and rated voltage 10kV.

TYPE DESIGNATION



SERVICE CONDITON

- 1 .Altitude :Not exleed 1000m;
- 2.Ambient temperature: - 5℃ — +40℃;
- 3.Relative humidity: less than 85%, at 20℃;
- 4.The product has passed the direct vibration test with the intensity of 0.4g three sine waves, equivalent to nice- degree earth quake on the richter scale.

CONSTRUCTION

The current transformer is provided with a ring core. The secondary windings are wound on the core evenly, which are then cast with epoxy resin and fixed on an allu-minium alloy flange which is fitted with rating plate, earthing bolt, and 4 holes for mounting.

TECHNICAL DATA

Performance confoms with IEC standard and GB1208-87 Current Transformer.

1. Main technical data;
2. Rated insulation level:
 - Power frequency withstand voltage:42kV.
 - Lightning impulse withstand voltage: full wave,75kV.
3. Relative curve between accuracy limit factor and secondary burden see drawing 3.

LMZ-10(LMZJ 1-10) CURRENT TRANSFORMER

Table 1

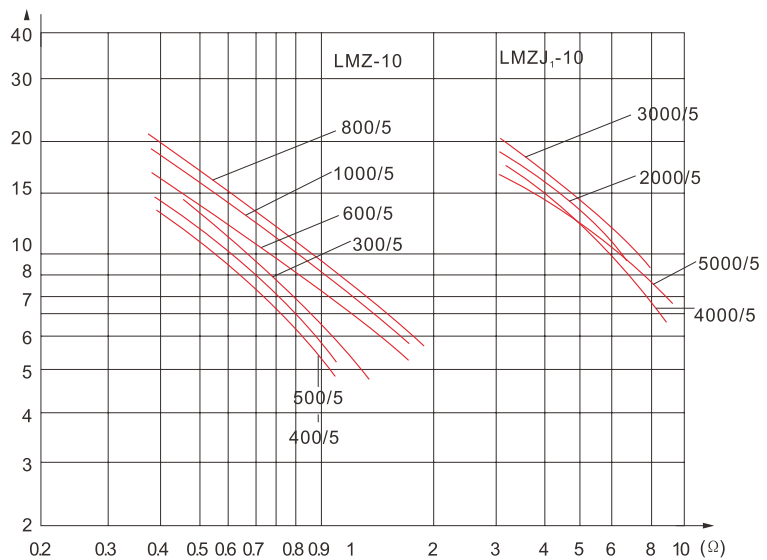


Type	Rated voltage (kV)	Rated primary current(A)	Rated secondary current(A)	Accuracy classes	Rated secondary burden			Accuracy limit factor for 10P
					Class 0.5	Class 3	Class 10P	
LMZ-10	10	300-1000 1500	5	0.5/3	10	3	15	10
LMZJI-10	10	2000,3000	5	0.5/10P	40	15	80	15
		4000,5000		0.5/10P	60		100	

Table 2

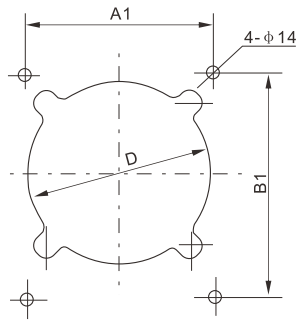
Type	Rated primary current(A)	Accuracy classes	L (mm)	C (mm)	D (mm)	d (mm)	A ₁ (mm)	A ₂ (mm)	B ₁ (mm)	B ₂ (mm)	weight kg
LMZ-10	300	0.5/3 0.5/10P	220	125	136	33	140	170	206	236	7.5
	400					43					
	500-600					53					
	750-800					63					
	1000					85					
LMZJI-10	1500-2000	0.5/10P	276	173	240	128	256	296	346	346	25.8
	3000			177	256	143					
	4000	0.5/10P	276	168	305	170	300	340	420	420	26.5
	5000										

ACCURACY LIMIT FACTOR OF CLASS 10P

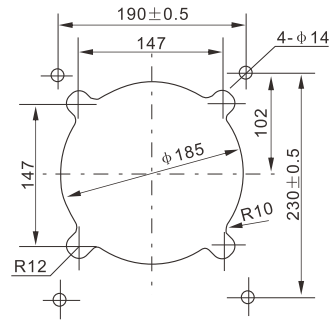


LMZ-10(LMZJ 1-10) CURRENT TRANSFORMER

HOLE DIMENSION



A



B

LMZ-10 type holing dimension see table 2(Drawing A)
LMZJ1-10 type holing dimension (1500-5000/5) see table 2(Drawing B)

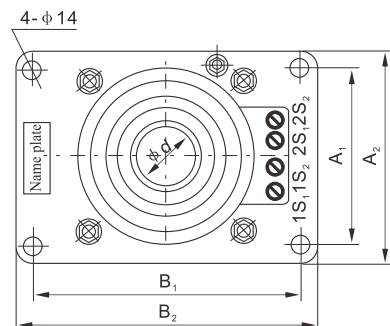
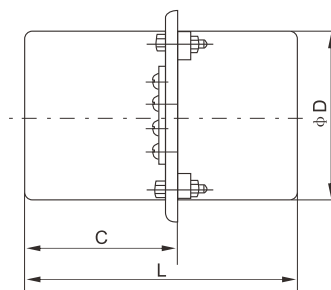
OVERALL DIMENSION

LMZ-10(300-1000)A

Overall Dimension

See table 2

Drawing A

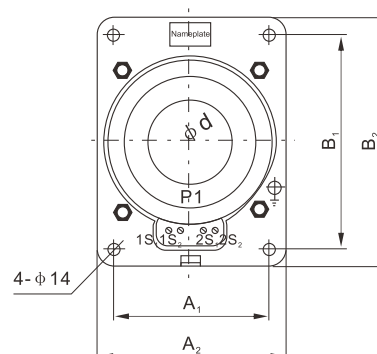
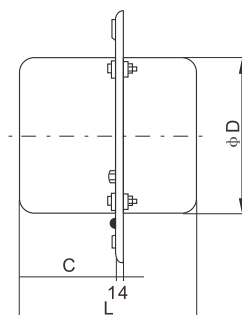


LMZJ1-10(1500-5000)A

Overall Dimension

See table 2

Drawing B



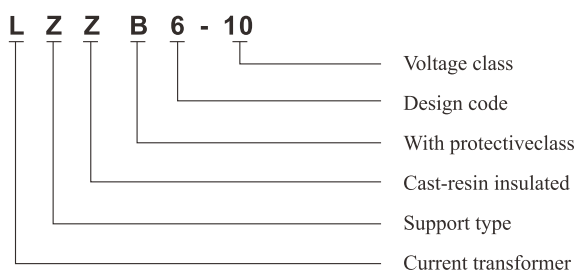
LZZB6-10 CURRENT TRANSFORMER

DESCRIPTION

The current transformer is support type, epoxy resin insulated, designed for current, power measurement and relay protection in a power system with rated frequency 50Hz, rated voltage 10kV.



TYPE DESIGNATION



SERVICE CONDITION

1. Altitude :Not exceed 1000m;
2. Ambient temperature: - 5℃ — +40℃;
3. Relative humidity: less than 85%, at 20℃;
4. The product has passed the direct vibration test with the intensity of 0.4g three sine waves, equivalent to nine-degree earth quake on the richter scale.

CONSTRUCTION

The current transformer is totally enclosed. Its core, primary winding and secondary windings are cast with epoxy resin. The base is fitted with rating plate, earthing bolt and 4 mounting holes. There is a protective cover for the secondary terminals.

TECHNICAL DATA

1. Performance conforms with IEC standard and GB1208-87 Current Transformer.
2. Rated insulation level withstand voltage:
 - power frequency withstand voltage 42kV
 - Lightning impulse withstand voltage-full-wave 75kV;

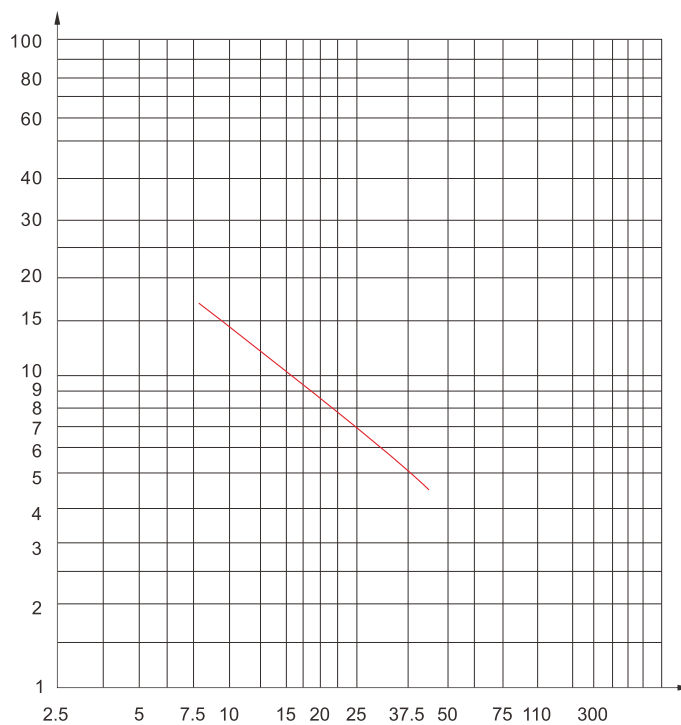
LZZB6-10 CURRENT TRANSFORMER



3. Relation of: 10P accuracy limit factor and secondary burden is shown as following.

Rated voltage (kV)	Rated primary current (A)	Rated secondary current (A)	Accuracy classes	Rated secondary burden (VA)		Accuracy limit factor for 10P	Rated 1sec. Short-time thermal current (kA.r.m.s)	Rated dynamic current (kApeak)	Weight (kg)
				Class 0.5	Class 10P				
10	5	5	0.5/10P	10	15	10	0.8	1.9	26.4
	10						1.5	3.8	
	15						2.3	5.8	
	20						3	7.7	
	30						4.5	11.5	
	40						6	15.3	
	50						7.5	19.1	
	75						11.3	28.7	
	100						15	38.3	
	150						22.5	44	
	200						24.5	44	
	300						24.5	44	

ACCURACY LIMIT FACTOR OF CLASS 10P

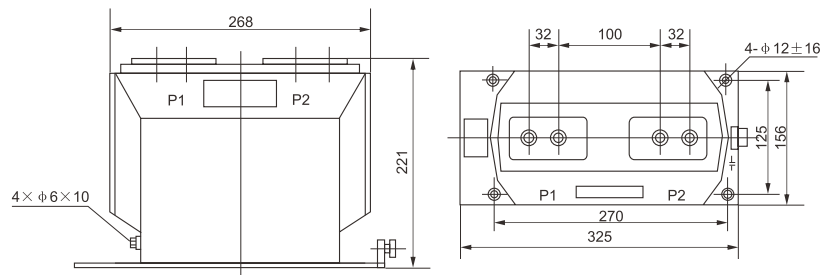


LZZB6-10 CURRENT TRANSFORMER

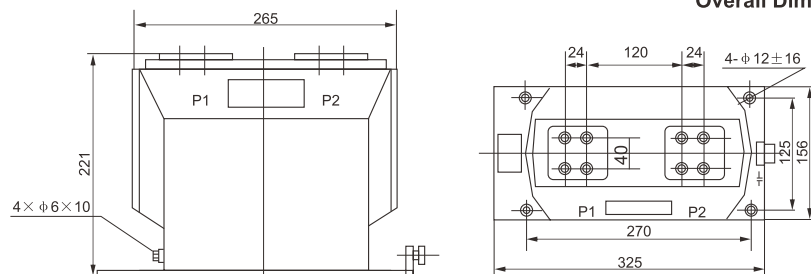
OVERALL DIMENSION



LZZB6-10 (5-1000/5A)
Overall Dimension



LZZB6-10(1200-25005A)
Overall Dimension



WHEN ORDERING, PLEASE SPECIFY THE FOLLOWING

1. Type and currenty ration;
2. Accuracy class and secondary output;
3. Insulation class and service condition.

RZL12, JDZL10-3,6,10A(B) VOLTAGE TRANSFORMER



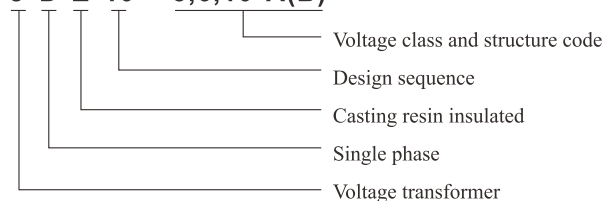
Is suitable KYN28 middle set cabinet

DESCRIPTION

The voltage transformers of types RZL(JDZ)10-3,6,10A(B) are single phase, casting resin insulated and full enclosed products. They are used for metering electric energy, voltage control and relay protection in the electric non-useful-grounded neutral system up to rated frequency 50Hz or 60Hz and rated voltage 3kV, 6kV and 10kV. The transformers can be executed according to the standards IEC186 and GB1207-1997.

TYPE DESIGNATION

J D Z 10 - 3,6,10 A(B)

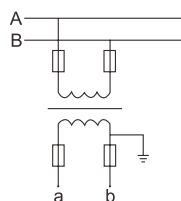


CONSTRUCTION

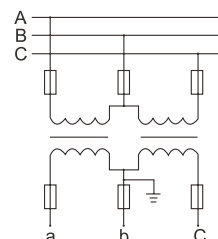
These voltage transformers are casting resin insulated, fully enclosed type. The iron core and winding are casting together. It is small and light. The secondary outlet line is wrapped by outlet box and has three exits with different direction feed lines.

TECHNICAL DATA

1. The voltage transformers are in accordance with GB1207-1997 (Voltage transformer) standards;
2. Power factor of load: $\cos \phi = 0.8$ (lagging);
3. Surface creepage distance: the product accords with the request of class II;
4. The other technical data see following table.



Wiring diagram of single phase line



Wiring diagram of three phase line

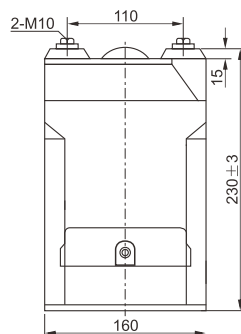
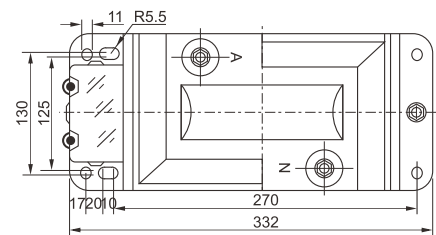
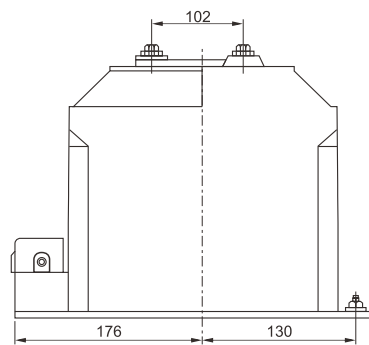
RZL12, JDZL10-3,6,10A(B) VOLTAGE TRANSFORMER

Table 1



Is suitable KYN28 middle set cabinet

Type	Rated voltage Tation(V)	Frequency (Hz)	Accuracy class and rated output(VA)				Limit output (vA)	Rated insulated level(kV)	Remarks	
			0.2	0.5	1	6P				
JDZ10-3A1 JDZ10-3A2	3000/100	50.60	15	30	60		150	3.6/25/40	And RZL10	
JDZ10-6A1 JDZ10-6A2	6000/100		15	30	60		150	7.2/32/60		
JDZ10-10A1 JDZ10-10A2	10000/100		15	30	60		150	12/42/75		
JDZ10-3B1 JDZ10-3B2	3000/100		25	50	90		300	3.6/25/40		
JDZ10-6B1 JDZ10-6B2	6000/100		25	50	90		300	7.2/32/60		
JDZ10-10B1 JDZ10-10B2	10000/100		25	50	90		300	12/42/75		
JDZX10-3AG	3000/ $\sqrt{3}$ /100/ $\sqrt{3}$ /100/ $\sqrt{3}$			40	60	50		150		3.6/25/40
JDZX10-6AG	6000/ $\sqrt{3}$ /100/ $\sqrt{3}$ /100/ $\sqrt{3}$			40	60	50		150		7.2/32/60
JDZX10-10AG	10000/ $\sqrt{3}$ /100/ $\sqrt{3}$ /100/ $\sqrt{3}$			40	60	50		150		12/42/75
JDZX10-3BG	3000/ $\sqrt{3}$ /100/ $\sqrt{3}$ /100/ $\sqrt{3}$			50	90	50		400		3.6/25/40
JDZX10-6BG	6000/ $\sqrt{3}$ /100/ $\sqrt{3}$ /100/ $\sqrt{3}$			50	90	50		400		7.2/32/60
JDZX10-10BG	10000/ $\sqrt{3}$ /100/ $\sqrt{3}$ /100/ $\sqrt{3}$			50	90	50		400		12/42/75

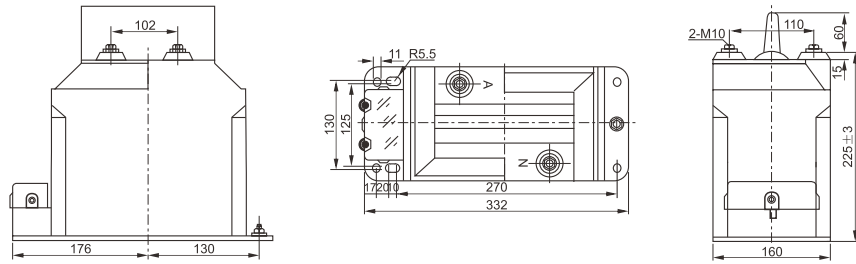


JDZ10-3A1、6A1、10A1 JDZX10-3AG、6AG、10GA

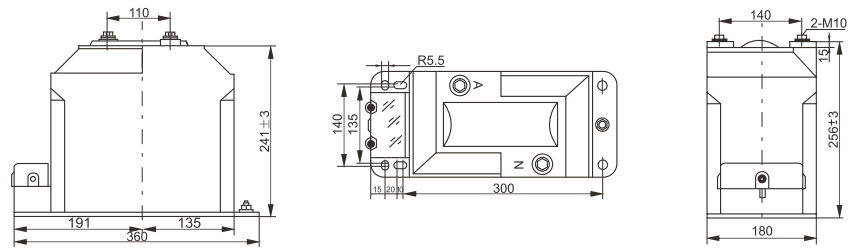
RZL12, JDZL10-3,6,10A(B) VOLTAGE TRANSFORMER



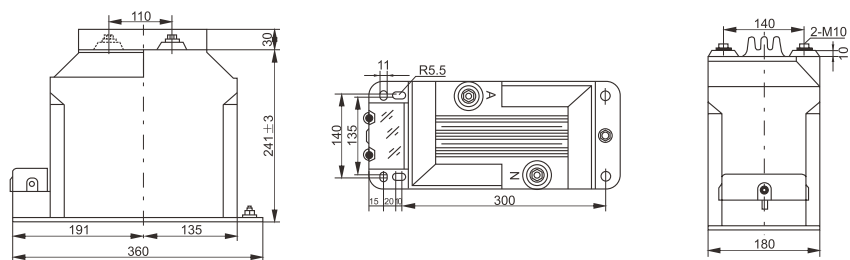
Is suitable KYN28 middle set cabinet



JDZ10-3A2、6A2、10A2 Overall Dimension

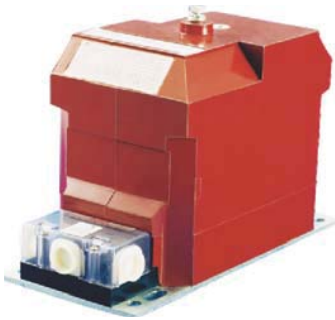


JDZ10-3B1、6B1、10B1 JDZX10-3BG、6BG、10BG Overall Dimension



JDZ103B2、6B2、10B2 Overall Dimension

RZL12, JDZX10-3,6,10A(B) VOLTAGE TRANSFORMER



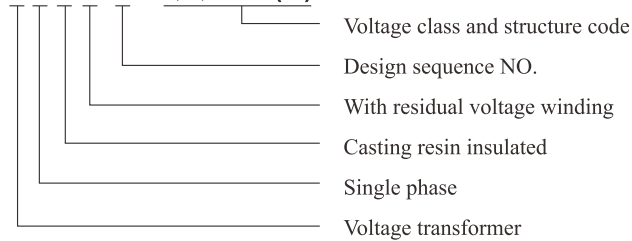
Is suitable KYN28 middle set cabinet

DESCRIPTION

The voltage transformers of types RELJDZX10-3,6,10A(B) are single phase, casting resin insulated and full enclosed products. They are used for metering electric energy, voltage control and relay protection in the electric non-useful-grounded neutral system up to rated frequency 50Hz or 60Hz and rated voltage 3kV, 6kV and 10kV. The transformers can be executed according to the standards IEC186 and GB1207-1997.

TYPE DESIGNATION

JDZX10-3,6,10A(B)

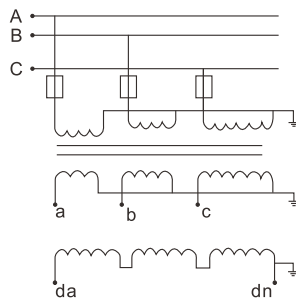


CONSTRUCTION

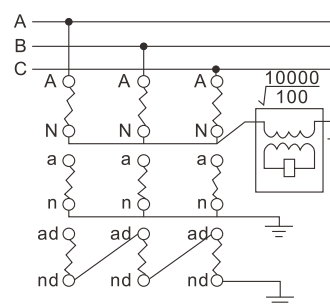
These voltage transformers are casting resin insulated, fully enclosed type. The ironcore and winding are casting together. It is small and light. The secondary outlet line is wrapped by outlet box and has three exits with different direction feed lines.

TECHNICAL DATA

1. The voltage transformers are in accordance with GB1207-1997 (Voltage transformer) standards;
2. Power factor of load: $\text{COS } \phi = 0.8$ (lagging);
3. Surface creepage distance: the product accords with the request of class II ;
4. The other technical data see following table.



Routine wiring diagram



Wiring diagram of three phase line

RZL12, JDZX10-3,6,10A(B) VOLTAGE TRANSFORMER



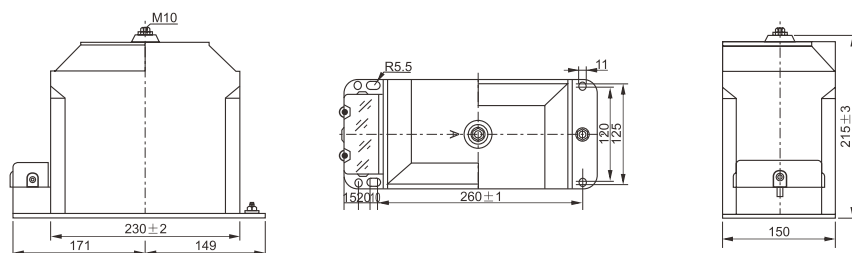
Is suitable KYN28 middle set cabinet

Table 1

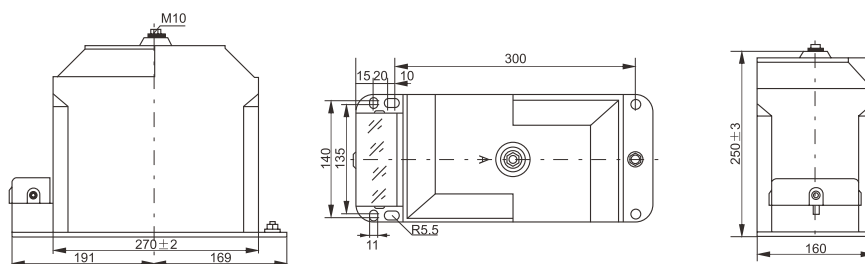
Type	Rated voltage Tation(V)	Frequency (Hz)	Accuracy class and rated output(VA)				Limit output (vA)	Rated insulated level(kV)	Remark
			0.2	0.5	1	6P			
JDZX10-3A	3000/100	50 60	15	30	60	50	150	3.6/25/40	And RZL10
JDZX10-6A	6000/100		15	30	60	50	150	7.2/32/60	
JDZX10-10A	10000/100		15	30	60	50	150	12/42/75	
JDZX10-3B	3000/100		25	50	90	50	400	3.6/25/40	
JDZX10-6B	6000/100		25	50	90	50	400	7.2/32/60	
JDZX10-10B	10000/100		25	50	90	50	400	12/42/75	

OVERALL DIMENSION

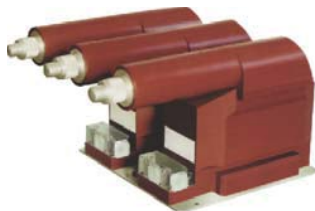
JDZX10-3A、6A、10A Overall Dimension



JDZX10-3B、6B、10B Overall Dimension



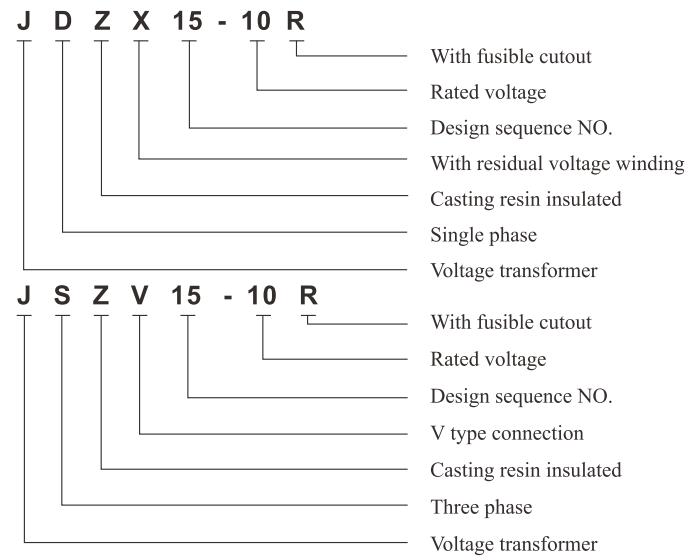
JDZX15-10R, JSZV15-10R VOLTAGE TRANSFORMER



DESCRIPTION

The voltage transformers adopt epoxy resin casting insulated and primary with fuse indoor fully-enclosed structure. It's primary equipped with touch-arm and primary need connect line, that it switch on or switch-off voltage by the contact terminal. The production is used for voltage, power measurement and relay protection in AC power system with rated frequency 50-60Hz and rated voltage 10kV and below. The production can replace two or three single phase transformer combination, The connection is convenient and reliable. And it can be used in switchgear.

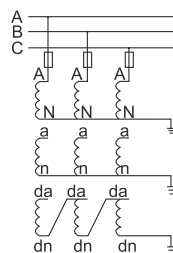
TYPE DESIGNATION



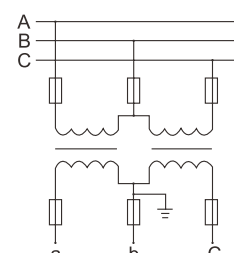
CONSTRUCTION

The transformer is support type structure, and it adopts epoxy resin fully-enclosed vacuum casting. The transformer has better capability of withstanding defilement and aqosity.

The voltage transformer max. Characteristic is that primary is carried with fuse protection, it can prevent trouble for deploying fuse; it has small volume and light weight, all that greatly reduce effective space of switch cupboard, and the fuse replacing is convenient. There is connection protection terminal box in the place of secondary connection terminal, the connection is convenient, and can realize the measure against stealing electricity.



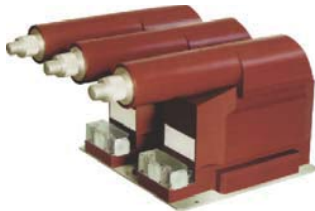
Wiring diagram of three phase line



Wiring diagram of three phase line

JDZX15-10R, JSZV15-10R VOLTAGE TRANSFORMER

TECHNICAL DATA

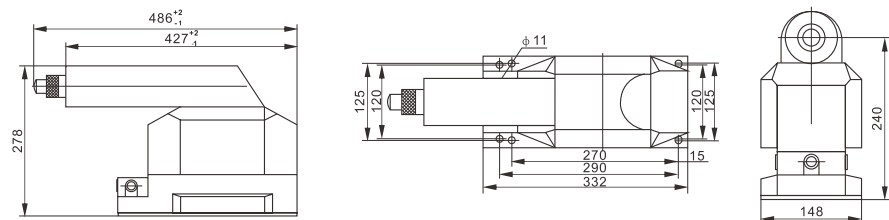


1. Power factor of load: $\text{COS } \phi = 0.8(\text{lagging})$;
2. Surface creepage distance: the product accords with the request of IT class;
3. The voltage transformers are in accordance with GB1207-1997 (Voltage transformer) standards;
4. The other technical data see following table:

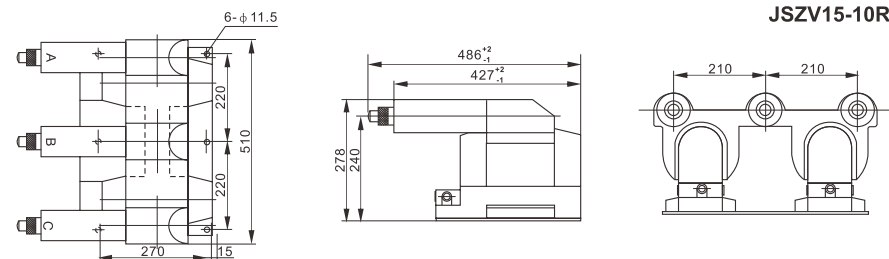
Type	Rated voltage Tation(V)	Rated output (vA)	Accuracy class	Limit output (vA)	Rated insulated level(kV)
JSZV15-10R	10000/100 10000/100/100	25	0.2	350	12/42/75
		50	0.5		
		100	1.0		
JDZX15-10R	10000/ $\sqrt{3}$ /100/ $\sqrt{3}$ / 100/3	25/50	0.2/6P	350	12/42/75
		50/50	0.5/6P		
		100/50	1.0/6P		

OVERALL DIMENSION

JDZX15-10R



JSZV15-10R

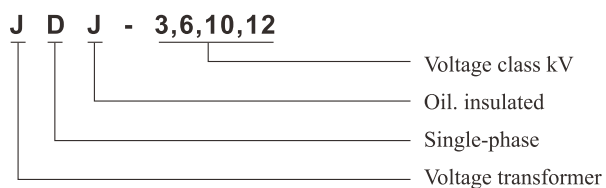


JDJ-3,6,10,12 VOLTAGE TRANSFORMER

DESCRIPTION

JDJ type is indoor oiled single-phase non-earthed voltage transformer. It is designed for use of measurement of voltage, electric energy and relay protection in electronic system at current of 50Hz with JDJ-3,6,10,12 four types.

TYPE DESIGNATION



CONSTRUCTION

This product is of oiled insulated structure with primary and secondary windings in the same ring core. The body is filled on the top cover and put in the oil box with insulation transformer oil, 10-15mm away from the cover which is enclosed with the top.

SERVICE CONDITIONS

1. Altitude :Not over 1000m;
2. Ambient temperature: - 5~3to +40~C;
3. Relative humidity: less than 85%, at 20~3;
4. The product has passed the direct vibration test with the intensity of 0.4g three sine waves, equivalent to nine-degree earth quake on the richter scale.

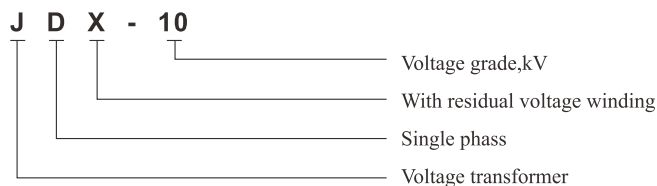
JDX-10 VOLTAGE TRANSFORMER

DESCRIPTION

This voltage transformer is single phase, oil filled and used indoor product. It has many merits, such as big capability, high precision. Etc. It has three windings: the 0.2class is for metering, the 0.5class is for monitoring, and the third is used for zero sequence protection.



TYPE DESIGNATION



CONSTRUCTION

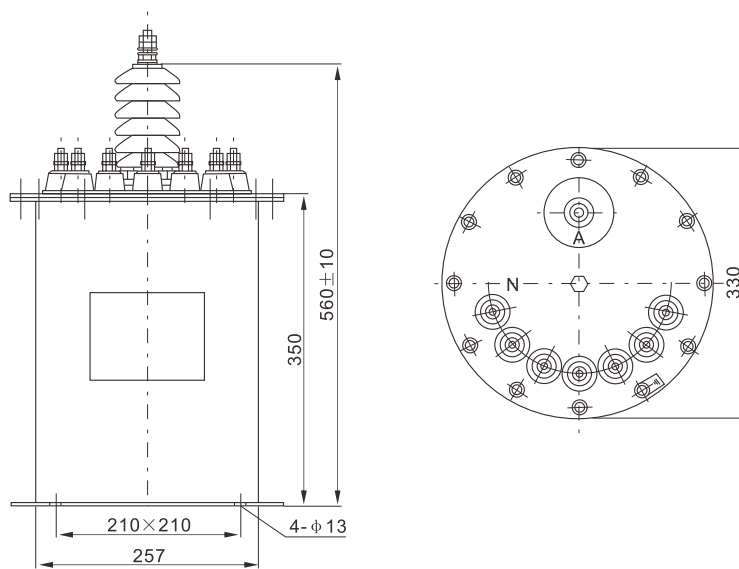
The voltage transformer is single phase and oil filled structure. The iron core is piled up of the silicon steel sheet. The body is fix-uped bellow the nip. The winding is reeled with concentric type. There is different insulated level of the high voltage end. The terminal of "A", high voltage insulation, is fetched out from porcelain bushing. The terminal of "N" being earthed, is fetched out from small porcelain insulator.

TECHNICAL DATA

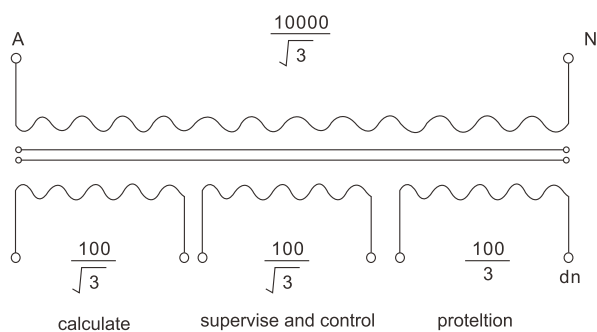
Rated voltage Tation(V)	Accuracy class and Rated output(vA)			Limit output(vA)	Rated insulated level(kV)
	0.2	0.5	3P		
$\frac{10000}{\sqrt{3}} / \frac{100}{\sqrt{3}} / \frac{100}{\sqrt{3}} / \frac{100}{3}$	20	25	50	500	12/42/75

JDX-10 VOLTAGE TRANSFORMER

OVERALL DIMENSION



WIRING SCHEMATIC DIAGRAM



WHEN ORDERING, PLEASE SPECIFY THE FOLLOWING

1. Type and voltage ratio;
2. Accuracy class and secondary output;
3. Insulation class and service condition.

JDZ(X)R2-12W VOLTAGE TRANSFORMER

DESCRIPTION

The types of outdoor voltage transformer are full cast-resin used in outdoors. They are used for metering electric energy, voltage control and relay protection in the electric nonuseful-ground neutral system up to 50Hz or 60Hz and 10kV. The transformers can be executed according to the standards IEC186 and GB1207-1997.

TYPE DESIGNATION

J	D	Z	(X)	R	2	-	12	W	
									Outdoor installation
									Highest voltage of equipment ,kV
									Design sequence
									With fusible cutout
									With residual voltage winding
									Cast-resin insulated
									Single phase
									Voltage transformer



CONSTRUCTION

The types of voltage transformers are cast used outdoor resins. They have much merit,such as : electric arc resistance, ultraviolet ray and aging resistance, long creepage distance,lower partial discharge and large caliber of resistance to over-voltage.

The primaries of the products are protected with fused. The fused is installed inside the transformer. The fuse's fusing current matches the transformers' short-circuit bearability. When the electrified wine netting breakdown, the fused can protect the transformer not beaker.

SERVICE CONDITION

- 1 .Ambient temperature: - 25℃ ~+40℃;
- 2.Antipollution class:IV class.

JDZ(X)R2-12W VOLTAGE TRANSFORMER

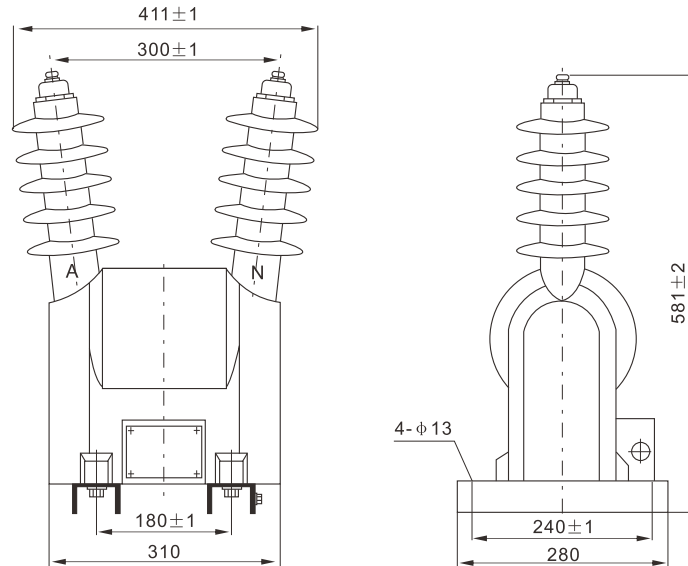
TECHNICAL DATA



1. Technical data form;
2. The conditions of the partial discharge test according to GB1207-1997 (Voltage transformer) will be fulfilled without exception.

Type	Rated voltage Tation(V)	Rated output(vA)			Limit output(vA)	Rated insulation levle(kV)
		0.2	0.5			
JDZR2-12W	10000/100	40	80	6P	500	12/42/75
	10000/100/100	25	40			
	10000/100/220		100V 30 220V 60			
JDZXR2-12W	$10000/\sqrt{3}/100/\sqrt{3}/100/3$	30	50	50	400	

OVERALL DIMENSION



JDZR2-12W、JDZXR2-12W
Overall Dimension

WHEN ORDERING, PLEASE SPECIFY THE FOLLOWING

1. Type and voltage ration;
2. Accuracy class and secondary output;
3. Insulation class and service conditor.

LB-10W CURRENT TRANSFORMER

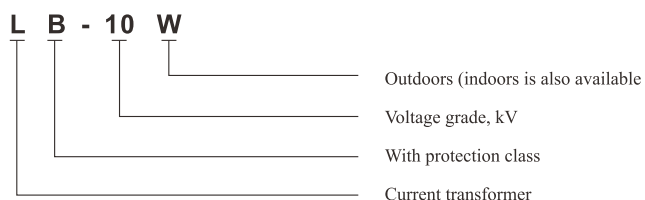
DESCRIPTION

The type current transformer is a kind of steel tank oil-immersed type of current transformer providing current and electric energy measurement and relaying protection to system with the frequency of 50 Hz.

The current transformer carries out the long operation under the conditions for 20% of rated current, It is used in the fields of altitude not exceed 4000m, and max. Change of ambient temperature not exceed -25~C- + 40~C.



TYPE DESIGNATION



CONSTRUCTION

The transformer is made of single-phase oil-immersed type self-cooling type, which can be used indoors or outdoors. There are insulation and oil for cool down the transformer installed inside the transformer. It adopts vacuum oil-filter and vacuum oiling arts. The distance between Class 10kV fuel and cover is about 15mm, there is an oiling valve installed above the cover, (there is an air hole on the valve) with water-proof and snow-proof cover. There is an oil tank inside the Class 35kV tube, The diaphragm inside the oil tank can make the oil be separated from the air, which decreases the oil oxidizing speed. Transformer thermal stability 187.5 times. The product has four models: single-ratio single secondary, single ratio double secondary, double ratio single secondary and double ratio double secondary. CT for measurement, it is Class 0.2, CT for continuous protection control, it is Class 0.2, 0.5 and 1.3(D), etc.

LB-10W CURRENT TRANSFORMER

SERVICE CONDITION

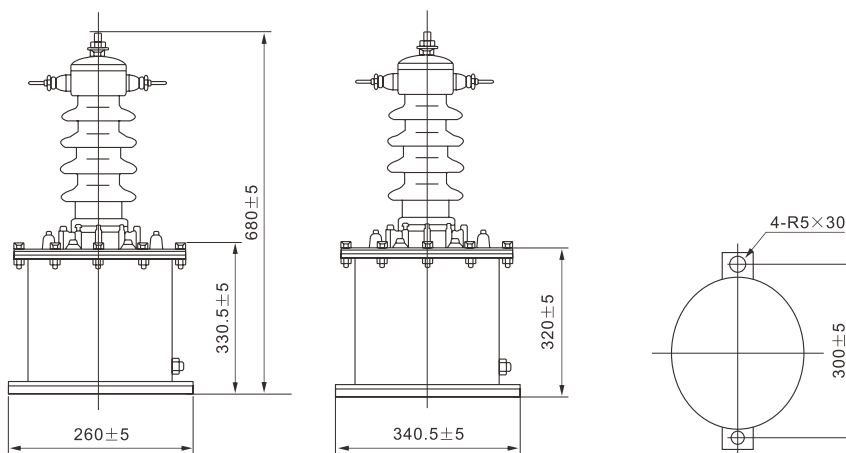
- 1 .outdoor;
- 2.Ambient temperature: - 25℃~+40℃;
- 3.Ambient condition: max relative humidity < 95%;
- 4.Altitude: < 2000m;
- 5.Antipollution class: class II .

TECHNICAL DATA



Rated primary current(A)	Accuacy classes combination	Rated output (vA)	Rated short-time thermal current (kA)	Rated dynamic current (kA)	Remarks
20	0.2/0.2 0.2/0.5 0.5/0.5 0.2/10P10 0.5/10P10	10/10 10/15 15/15 10/20 15/20	1.8	3.0	Secondary is single winding or double windings that they are all ok.
30			2.7	4.5	
40			3.6	6.0	
50			4.5	7.5	
75			6.75	11.25	
100			9.0	15	
150			13.5	22.5	
200			18	30	
300			27	45	
400			30	50	

OVERALL DIMENSION



LZZB7-35GYW1 CURRENT TRANSFORMER

DESCRIPTION

The current transformer of type LZZ735GYW1 is casting resins and fully enclosed. It is used for metering electric energy and current, relay protection in the electrical system with rated frequency 50Hz or 60Hz and rated voltage 35kV. The transformers can be executed according to the standards IEC185 and GB1208-1997.



TYPE DESIGNATION

L	Z	Z	B	7	-	35	W2	A	
									The construction code name
									Pollution class, class III
									Voltage grade, kV
									Design sequence
									With protection
									Casting resin insulated
									Post type
									Current transformer

CONSTRUCTION

This current transformer is fully enclosed and posts type. It has good ability of antipollution and moisture-proof especially being used in damp tropics and highland. This product has two different striations and sizes. It is a new product for superseding the current transformer of the type LCZ-35.

TECHNICAL DATA

1. Rated insulation level: 40.5/95/185kV;
2. Rated secondary current: 5A, 1A;
3. Rated primary current, accuracy class, rated output, dynamic and thermal current see form.
4. The conditions of the partial discharge test according to GB12081997 (Current transformer) will be fulfilled without exception;
5. The relation curve between protection class accuracy limit factor and secondary output see fig.

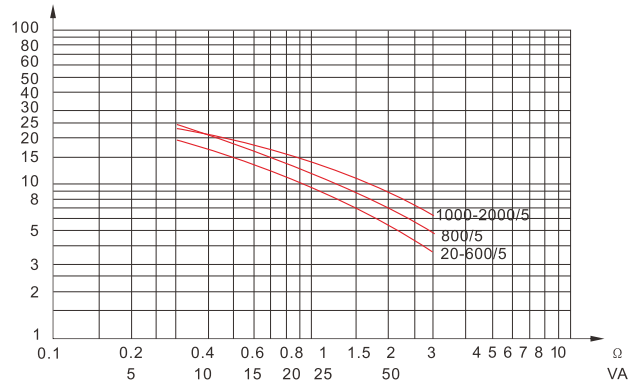
LZZB7-35GYW1 CURRENT TRANSFORMER



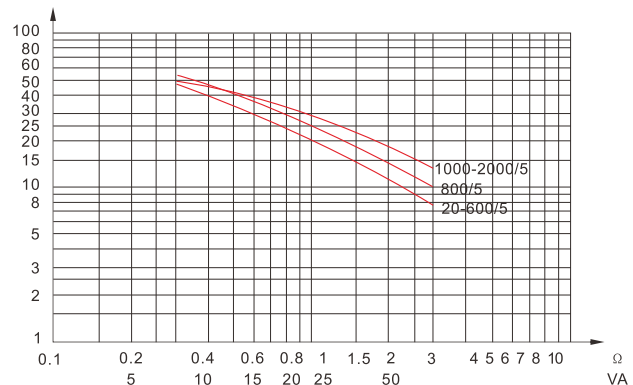
Rate primary current(A)	Accuracy class	Rated output(VA)	Rated short time thermal current (KA)	Rated dynamic current(KA)
20	0.2/10P10	30/50	6	15
30		50/50		
40	0.5/10P10	50/50	12	30
50	0.2/10P20	30/25		
75	0.5/10P20	50/25	16	40
100	0.2/0.5/10P10	20/50/50	25	62.5
150	0.2/0.5/10P20	20/50/25		
200	0.2/0.5/10P10/10P10	20/50/50/50	32	80
300	0.5/10/10/10P10/10P10	30/20/50/50		
400	0.2/10P10/10P10/10P10	20/20/50/50		
500				
600			63	130
750	0.2/10P10	50/50		
800	0.5/10P10	50/50		
1000	0.2/10P20	50/30		
1200	0.5/10P20	50/30	63	130
1500	0.2/0.5/10P10	30/50/30		
2000	0.2/0.5/10P20	30/50/50	63	130
	0.2/0.5/10P10/10P10	20/50/50/50		
	0.5/10/10/10P10/10P10	30/20/50/50		
	0.2/10P10/10P10/10P10	20/20/50/50		

If being request, the measuring class can reach to 0.2S or 0.5S class.

LZZB7-35W2. LZZB7-35A Accuracy limit factor of class10P



LZZB7-35W2. LZZB7-35A Accuracy limit factor of class10P



LZZB9-35,40.5 CURRENT TRANSFORMER

DESCRIPTION

The current transformers of type LZZB9-35 are casting resins and fully enclosed. It is used for metering electric energy and current, relay protection in the electrical system with rated frequency 50Hz or 60Hz and rated voltage 35kV. The transformers can be executed according to the standards IEC185 and GB1208-1997.



TYPE DESIGNATION

L	Z	Z	B	9	- 35,40.5	
						Volatge grade,kV
						Design sequence
						With protection
						Casting resin insulated
						Post type
						Current transformer

CONSTRUCTION

This current transformer is fully enclosed and posts type product. It has a good ability of antipollution and moisture proof. It is small and light. It can be mounted in any position you like.

TECHNICAL DATA

1. Rated insulation level: 40.5/95/185kV;
2. Surface creepage distance: 815mm;
3. The current transformers are in accordance with: GB1208-1997 (Current transformer) standards;
4. Power factor of load: $\cos \phi = 0.8$ (lagging), Apparatus security factor: $F_s \leq 10$;
5. Ambient temperature: -5°C - $+40^\circ\text{C}$;
6. Altitude: not more than 2000m;
7. The other technical data see following table.

LZZB9-35,40.5 CURRENT TRANSFORMER



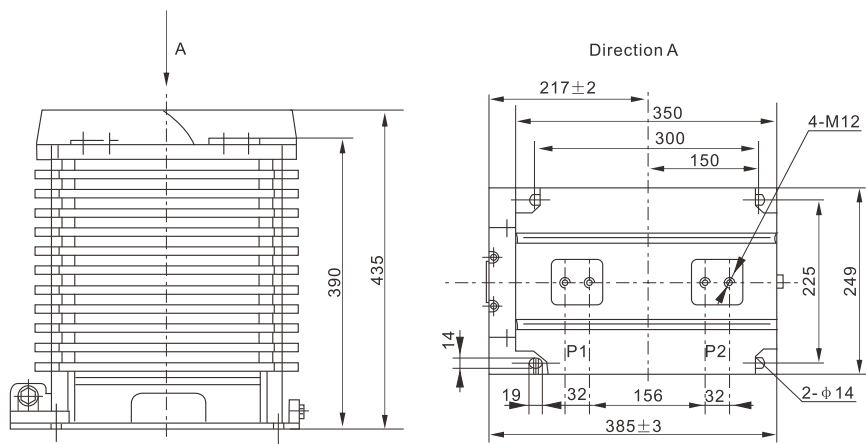
Type	Rated primary current (A)	Accuracy class	Rated output(VA)				Short time thermal current (KA)	Dynamic current(KA)
			0.2	0.5	5P15	5P20		
LZZB936/250W1	20-100	0.2/0.2 0.2/0.5 0.5/0.5 0.2/5P 05/5P	10	15	15	15	200 Z In	500 I In
	150-200		10	15	15	15	31.5/1	80
	300-500		10	15	15	15	31.5/2	80
	600-1250		15	30	15	0	31.5/4	80
	1500-2000		20	40	20	30	40/4	125
	2500		20	40	20	20	40/4	125
LZZB936/250W2	20-100	0.2/0.2/0.2 0.2/0.2/0.5 0.5/0.5/0.5 0.2/P15/5P20 0.5/5P15/5P20	10	15		15	20/1 In	50 I In
	150-200		10	15		15	31.5/1	80
	300-500		10	15		15	31.5/2	80
	600-1250		150	20		20	31.5/4	80
	1500-2000		20	30		30	40/4	125
	2500		20	20		20	40/4	125

Note: The above technical parameter, rated secondary current is 5A, if needs 1A or other data please contact with the company when ordering.

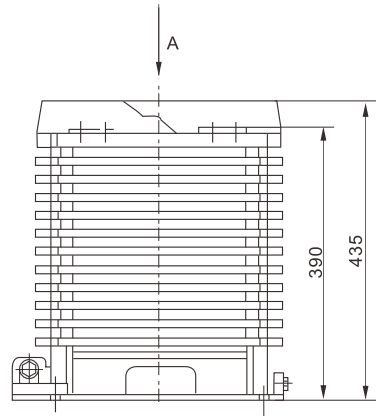
OVERALL DIMENSION

LZZBJ9-36/250W1(120-1250A)

Overall Dimension

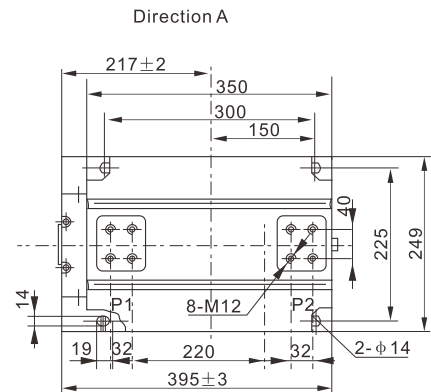


LZZB9-35,40.5 CURRENT TRANSFORMER



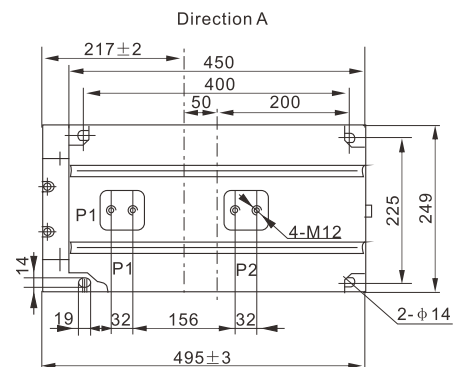
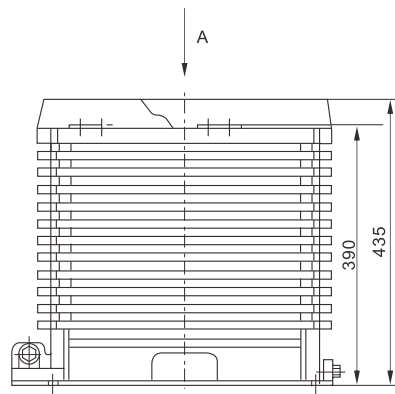
LZZBJ9-36/250W1(1500-2500A)

Overall Dimension



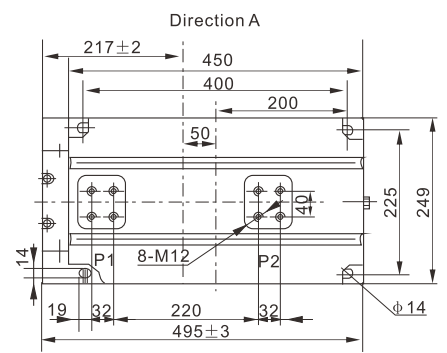
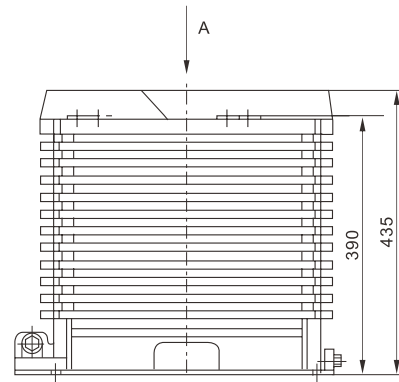
LZZBJ9-36/250W2(20-1250A)

Overall Dimension



LZZBJ9-36/250W2(1500-2500A)

Overall Dimension



LZZB1-35W CURRENT TRANSFORMER

DESCRIPTION

The outdoor current transformer is an en-closed, post type and outdoors product. It is used for metering electric energy and current, relay protection with rated frequency 50Hz or 60Hz and rated voltage 35kV. The transformers can be executed according to the standards IEC185and GB1208-1997.



TYPE DESIGNATION

L	Z	Z	B	1	- 35	W	
							Out door installation
							Volatge grade,kV
							Design sequence No.
							With protection
							Casting resin insulated
							Post type
							Current transformer

CONSTRUCTION

The type of current transformer is a full en-closed and prop shape product. It is made by outdoor rasin(made in Switzerland cida, the type is CW5873). The product has much merit, such as: electric arc resistances, ultraviolet ray and aging resistance long working time, long craepage distance, little partial discharge and large caliber of resistance to over-voltage,etc. The primary winding, secondary winding and cora are made up together and poured in the cast. The primary winding, secondary winding and core are made up together and poured in the cast. The primary winding' s terminal, P1 and P2, is on the product, and the secondary winding' s terminal, S1 and S2, is leaded out from the hermetic leading-out box under the product.

TECHNICAL DATA

1. Rated insulation level: 40.5/95/185kV;
2. Rated secondary current: 5A or 1A;
3. Rated primary, combination accuracy class, rated output, rated dynamic and thermal current,see from table.
4. The conditions of the partial discharge test according to GB1208-1977 (Curretn transformer) will be fulfilled without exception.
5. Ambient temperature: - 25°C — +40°C;
6. Pollution class: class IV.

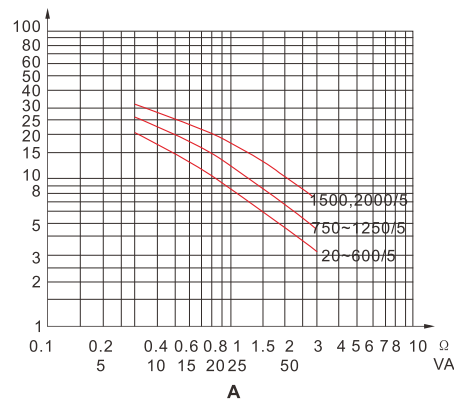
LZZB1-35W CURRENT TRANSFORMER



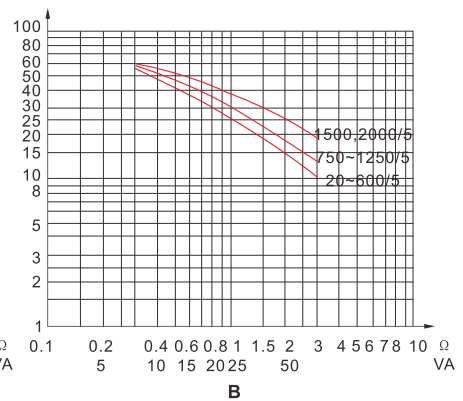
Rated primary current(A)	Accuracy classed combination	Rated output(VA)							Short-time thermal current (KNS)	Rated dynamic current(KA)
		0.2S	0.2	0.5S	0.5	10P10	10P15	10P20		
20									5.6	14
30,40	0.2S/10P15								7	17.5
50	0.5S/10P15								7	17.5
75	0.2/10P15								14	35
100	0.5/10P15								14	35
150	0.2/10P20								25	63
200	0.5/10P20	15	20	30	50	20	50	30	25	63
300	0.2/0.5/10P10								40	100
400	0.2/10P10/10P10								40	100
500,600	0.5/10P10/10P10								40	100
750-1250	0.2/0.5/10P10/10P15								45	100
	0.2/0.5/10P10/10P20								63	130
1500,2000			30			50		60	63	130

Note: If special request for technical data, please consult with factory for confirmation; The secondary winding can be tapped so can get many different ratio of transformation.

A:
LZZB1-35W 10P10
The relation curve between accuracy limit factor and secondary load

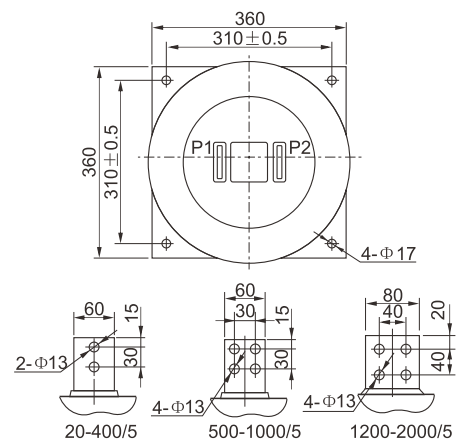
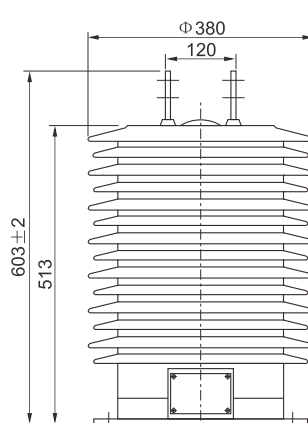


B:
LZZB1-35W 10P15,10P20
The relation curve between accuracy limit factor and secondary load



OVERALL DIMENSION

LZZB1-35W Overall Dimension



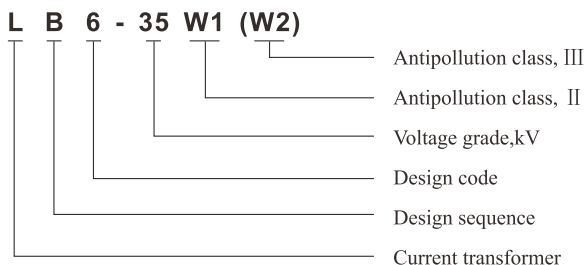
LB6-35(LABN6-35) VOLTAGE TRANSFORMER

DESCRIPTION

The current transformer of type LB6-35 is oil insulated and outdoor product. It is used for metering electric energy, current and relay protection in electric system up to rated frequency 50Hz or 60Hz and rated voltage 35kV.



TYPE DESIGNATION



CONSTRUCTION

The body of this product, after being vacuum and oil treatment, is put in the oil tank full of transformer oil. Being a fully enclosed construction, it is effective to prevent oil from aging.

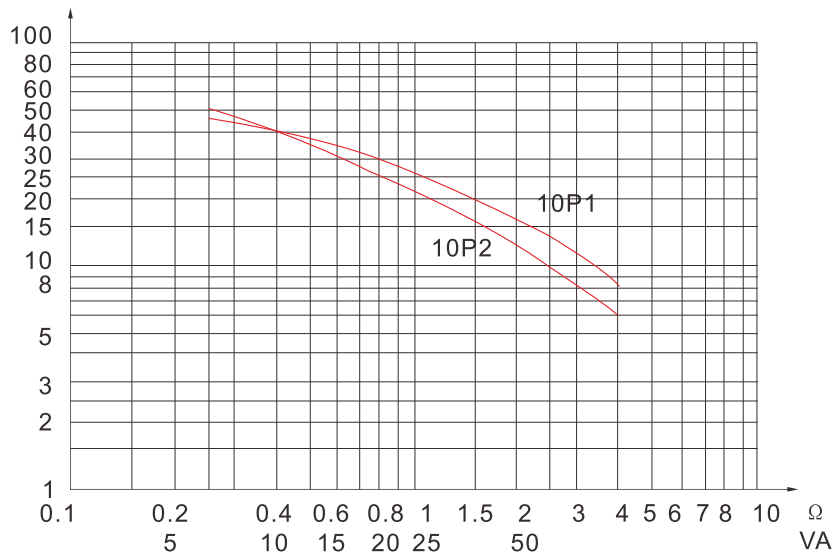
TECHNICAL DATA

1. Rated insulation level: 40.5/95/185kV;
 2. Rated primary current, :5A;
 3. Rated primary current, accuracy classes combination, rated output, dynamic and thermal current see form.
 4. Creepage distance of outside insulation: general type > 735;W2 type > 1100.
- Note:If users have other special requirements, we may do some relevant adjustment to partial data.

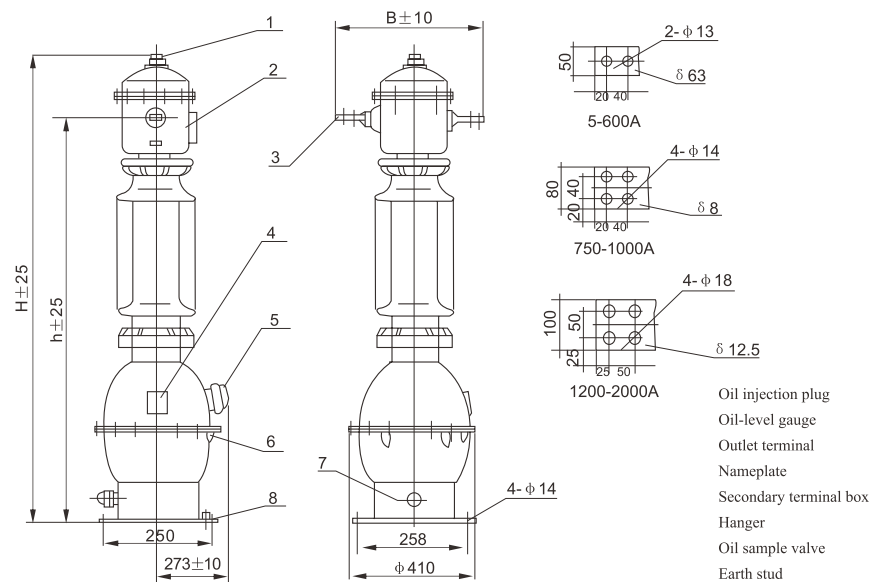
Rated primary current(A)	Accuracy classed combination	Rated output(VA)				Accuracy class limit factor	Short-time thermal current (KNS)	Rated dynamic current(KA)
		0.2	0.5	10P1	10P2			
5	0.5/10P1/10P2 0.2/10P1/10P2	30	40	40	30	20	0.5	1.28
10							1	2.55
15							1.5	3.83
20							2	5.1
30							3	7.65
40							4	10.2
50							5	12.75
75							7.5	19.13
100							10	25.5
150							15	38.3
200							20	51
300							30	76.5
400-200							40	102

LB6-35(LABN6-35) VOLTAGE TRANSFORMER

ACCURACY LIMIT FACTOR OF CLASS 0.1



OVERALL DIMENSION



Rated primary current(A)	5-75A	100-600A	750-1000A	1200-1500A	2000A
B	508	508	548	588	658
h	1315	1315	1315	1315	1335
H	1475	1475	1475	1475	1495
oil heavy	25	25	29	29	32
Total heavy	160	160	190	190	205

JDZ(X)6-35QRW VOLTAGE TRANSFORMER

DESCRIPTION

The series of voltage transformers of the type JDZ(X)(F)9-35 are full enclosed and casting resin insulated products. They are used for metering electric energy; voltage control and relay protection in the electric system up to rated frequency 50Hz or 60Hz and rated voltage 35kV. The transformers can be executed according to the standards IEC186 and R12N7-1Q~7



TYPE DESIGNATION

J	D	Z (X)	6	-	35	Q	R	W	
									Pollution withstand
									With fusible cutout
									Enhancement insulated
									Voltage grade, kV
									Design sequence
									With residual voltage winding
									Casting resin insulated
									Single phase
									Voltage transformer

CONSTRUCTION

This voltage transformer is a new product that the primary winding is carried with fusible cutout protection. It is casting resin insulated and fully enclosed type. The fusible cutout is the primary winding's terminal. The fusible cutout's fused current can match the transformer's short-circuit force.

TECHNICAL DATA

1. Rated insulation level: 40.5/95/200kV;
2. Power factor of load: $\cos \phi \approx 0.8$ (lagging);
3. Surface creepage distance: the product accords with the request of m class;
4. The voltage transformers are in accordance with GB1207-1997 <Voltage transformer> standards;
5. Ambient temperature: $-40 \sim +40$.

JDZ(X)6-35QRW VOLTAGE TRANSFORMER

table 1

Type	Rated voltage ratio (V)	Accuracy classes combination	Rated output (VA)	Limit output (VA)	Rated insulated level(kV)
JDZX6-35RW	$35/\sqrt{3}/0.1/\sqrt{3}/0.1/3$	0.2/6P 0.5/6P	40/100 80/100	600 300	40.5/95/200
	$35/\sqrt{3}/0.1/\sqrt{3}/0.1/\sqrt{3}/0.1/3$	0.2/0.5/6P	10/30/100 15/20/100	300	

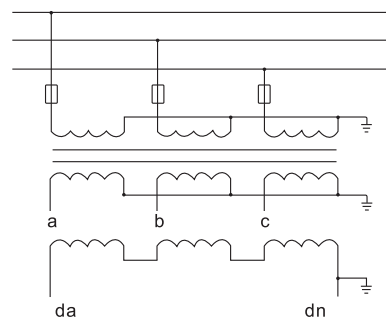


table 2

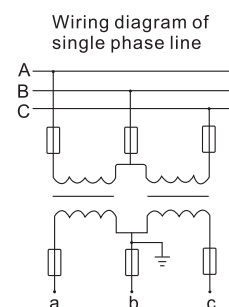
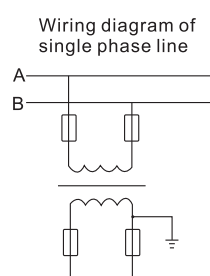
Type	Rated frequency (Hz)	Rated voltage ratio (V)	Accuracy classes combination	Rated output (VA)	Limit output (VA)	Rated insulated level(kV)
JDZX6-35QR	50,60	35000/100	0.2 0.5	60 120	800	40.5/95/200
		35000/100/100	0.2/0.5	30/50	400	

WIRING DIAGRAM PHASE LINE

JDZX6-35RW
Routine wiring diagram



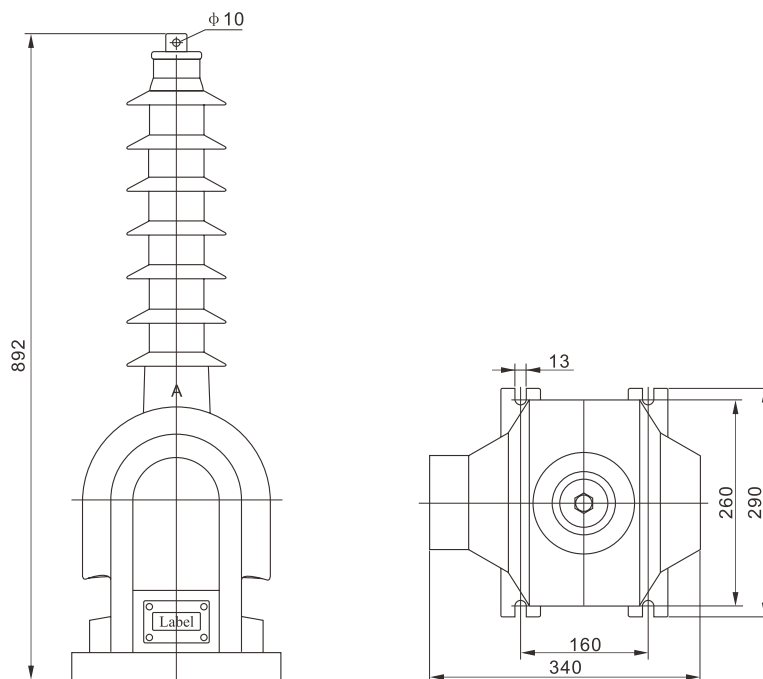
JDZ6-35QR
Routine wiring diagram



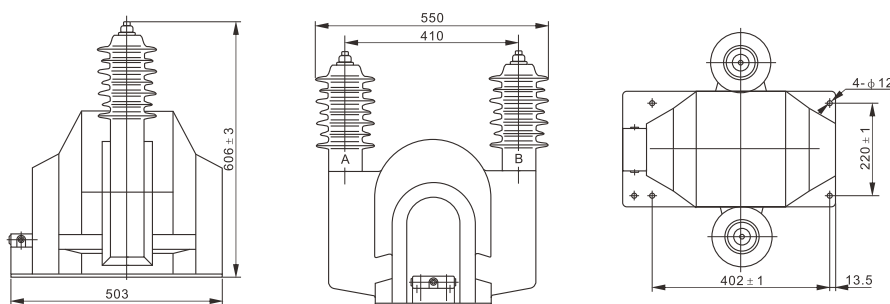
JDZ(X)6-35QRW VOLTAGE TRANSFORMER

OVERALL DIMENSION

JDZX6-35RW Overall Dimension



JDZ6-35QR Overall Dimension



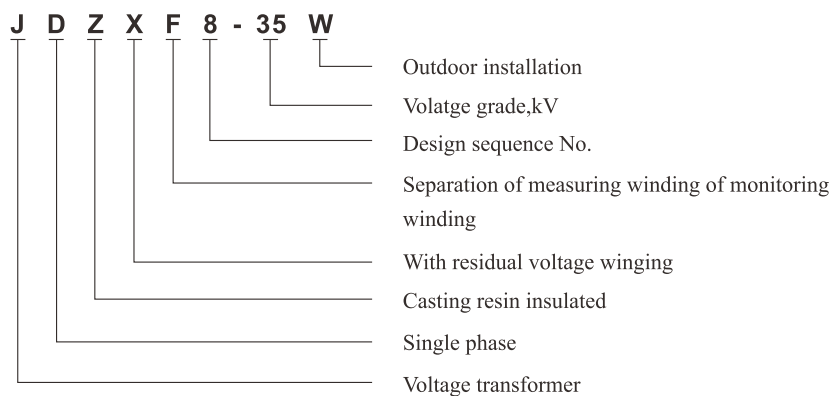
JDZ(X)(F)8-35W VOLTAGE TRANSFORMER

DESCRIPTION

The series of outdoor voltage transformers are full cast-resin insulated used in outdoors. They are used for metering electric energy, voltage control and relay protection in the electric system with rated frequency 50Hz or 60Hz and rated voltage 35kV. The transformers can be executed according to the standards IEC186 and GB1207-1997.



TYPE DESIGNATION



CONSTRUCTION

The types of voltage transformers are full en-closed structure of outdoor cast-resin insulation. They have much merit, such as: electric arc resistance, ultraviolet ray and aging resistance, long creep-age distance, little partial discharge and large caliber of resistance to over-voltage.

JDZ(F)8-35W is a single-phase transformer connected between phase to phase. The JDZF8-35W has two secondary windings. It is separation of energy measuring form voltage monitoring; The JDZX(F)8-35W is also single-phase transformer connected between phase to ground. The primary A terminal is connected with phase wire, the N terminal is earthen. The JDZXF8-35W has three secondary windings. It is separation of energy measuring form voltage mnitoring and relay protecting.

JDZ(X)(F)8-35W VOLTAGE TRANSFORMER

CONDITION OF USE

1. Ambient temperature: $-25^{\circ}\text{C}\sim+40^{\circ}\text{C}$;
2. Antipollution class: IV class.



TECHNICAL DATA

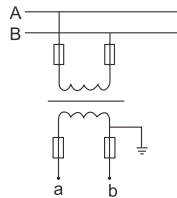
The conditions of the partial discharge test according to GB12081997 (Current transformer) will be fulfilled without exception;

Type	Rated voltage ratio(V)	Rated output(VA)			Limit output(VA)	Rated insulated level(kV)
		0.2	0.5	6P		
JDZ8-35W	35000/100	75	150		1000	40.5/95/200
JDZF8-35W	35000/100/100	30	60		2×500	
JDZX8-35W	$35000/\sqrt{3}/100/\sqrt{3}/100/3$	50	100	100	1000	
JDZXF8-35W	$35000/\sqrt{3}/100/\sqrt{3}/100/\sqrt{3}/100/3$	25	50	100	2×500	

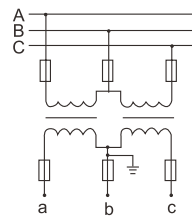


SCHEME OF CONNECTION

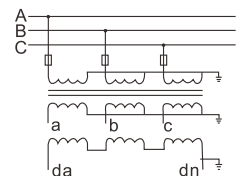
JDZ8-35W
Wiring diagram of single phase line



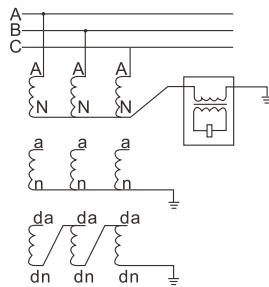
JDZ8-35W
Wiring diagram of three phase line



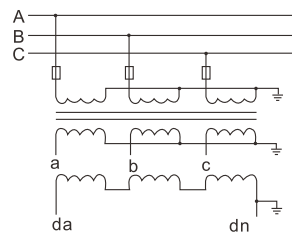
JDZX8-35W
Routine wiring diagram



JDZX8-35W
Wiring diagram of three phase
line resonance prevention



JDZX8-35W
Routine wiring diagram

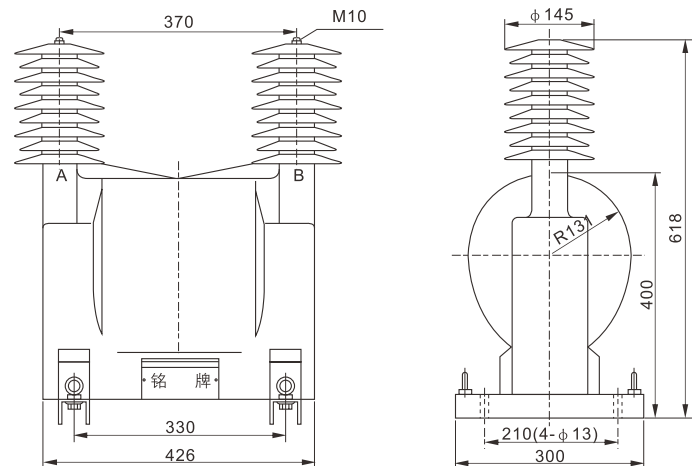


JDZ(X)(F)8-35W VOLTAGE TRANSFORMER

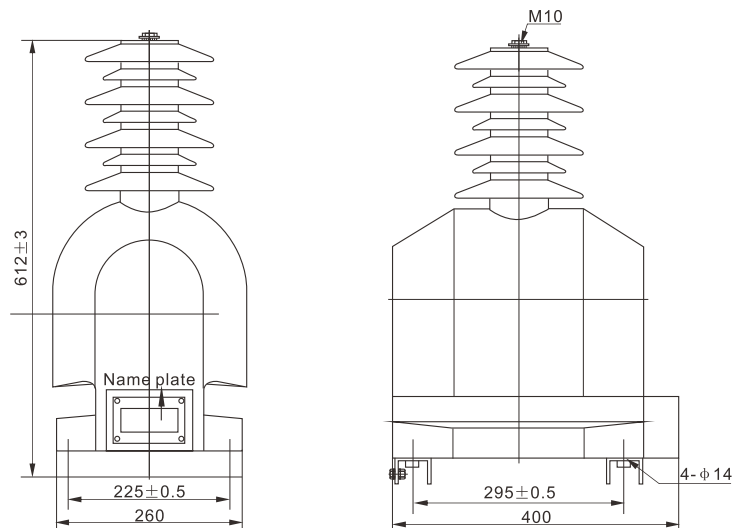
OVERALL DIMENSION



Jdxx6-35w overall dimension



Jdzx6-35w overall dimension



Notice details:

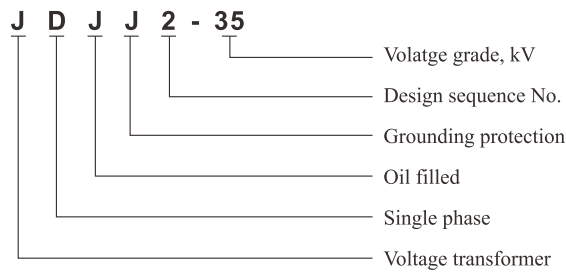
1. In using, the secondary winding can't be short-circuit or operated over-load.
2. The voltage transformers of type JDZX8-35W、JDZXF8-35W are semi insulation. Only induction voltage test to this product is allowed when the switch cabinet goes on working-frequency voltage test. The transformer must be cut off from the switch cabinet.

JDJ(J)2-35/JD(X)N2-35 VOLTAGE TRANSFORMER

DESCRIPTION

The voltage transformer of types JDJ(J)2-35 is single phase and oil-filled product. It is used for metering electric energy, voltage control and relay protection in the electric system with rated frequency 50Hz or 60Hz and rated voltage 35kV.

TYPE DESIGNATION



CONSTRUCTION

This voltage transformer has three poles and the iron core is made of sheet. The body is fixed on the box cover by clamping. There is the primary and secondary busing also on the box cover.

TECHNICAL DATA

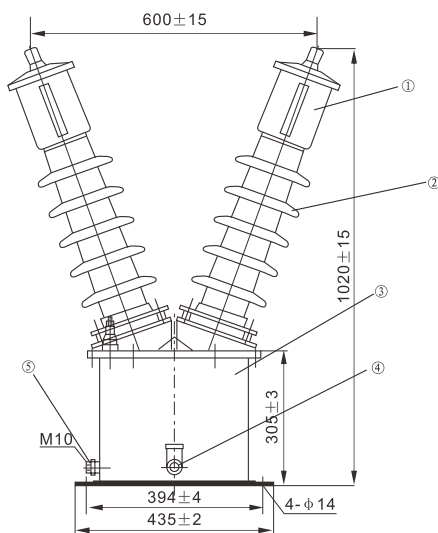
1. Rated insulated level: 40.5/95/200kV;

2. Technical data form.

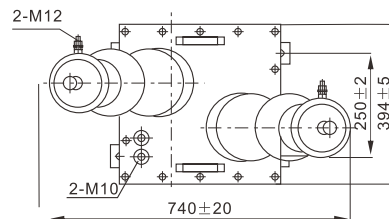
Type	Rated voltage ratio(V)	Rated output(VA)				Limit output(VA)
		0.2	0.5	1	6P	
JDJ2-35	35000/100	75	150	250		1000
JDJJ2-35	$35000/\sqrt{3}/100/\sqrt{3}/100/3$	75	150	250	100	
		$35000/\sqrt{3}/100/\sqrt{3}/100/\sqrt{3}/100/3$	30	60		100

JDJ(J)2-35/JD(X)N2-35 VOLTAGE TRANSFORMER

OVERALL DIMENSION

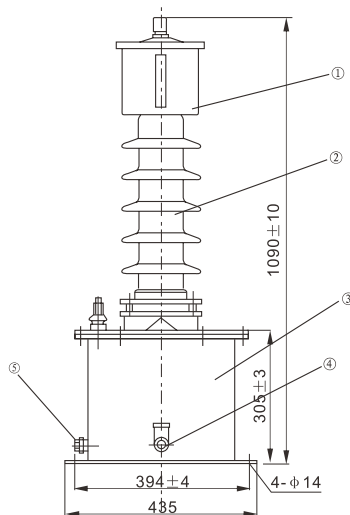


1. Oil conservater
2. Insulating bushing
3. Transformer tank
4. Valve the oil
5. Earthing screw

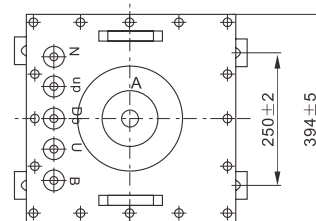


JDJ2-35/(JDN2)-35

Overall Dimension



1. Oil conservater
2. Insulating bushing
3. Transformer tank
4. Valve the oil
5. Earthing screw



JDJJ2-35/(JDXN2)-35

Overall Dimension

Notice details:

1. In using, the secondary winding can't be short-circuit or operated over-load.

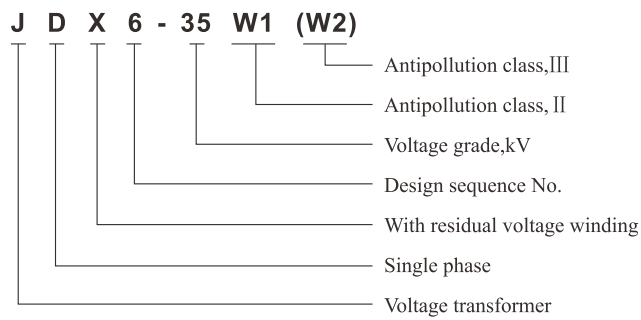
JD(X)6-35 VOLTAGE TRANSFORMER

DESCRIPTION

The voltage transformer of types JD6-35 and JDX6-35 are single phase, outdoor and oil-filled product. It is used for metering electric energy, voltage control and relay protection in the electric system with rated frequency 50Hz or 60Hz and rated voltage 35kV.



TYPE DESIGNATION



CONSTRUCTION

The steel core of this voltage transformer is three posts type. Around the middle post there is the primary and secondary winding. The body is the oil box. Being a full enclosed construction, it is effective to prevent oil from aging.

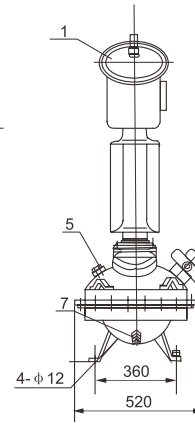
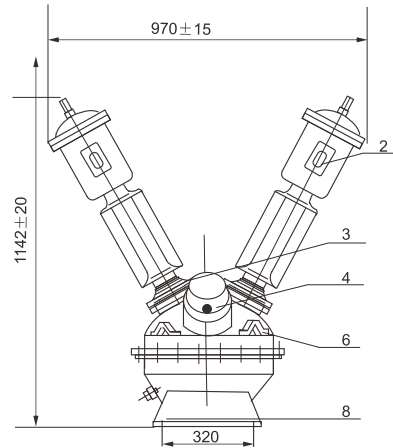
TECHNICAL DATA

1. Rated insulated level: 40.5/95/200kV;
2. Technical data form.

Type	Rated voltage ratio(V)	Rated output(VA)				Limit output(VA)
		0.2	0.5	1	6P	
JD6-35	35000/100	75	150	250		1000
JDX6-35	$35000/\sqrt{3}/100/\sqrt{3}/100/3$	75	150	250	100	
	$35000/\sqrt{3}/100/\sqrt{3}/100/\sqrt{3}/100/3$	30	60		100	2×500

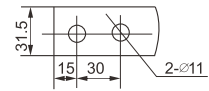
JD(X)6-35 VOLTAGE TRANSFORMER

OVERALL DIMENSION

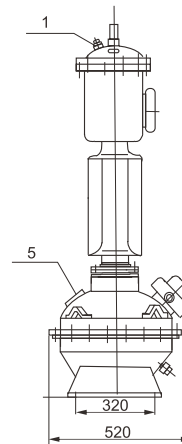
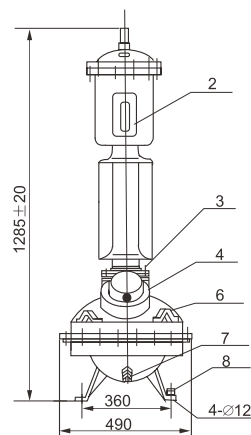


- Oil injection plug
- Oil-level gauge
- China vase
- Nameplate
- Secondary terminal box
- Hanger
- Oil sample valve
- Earth stud

Primary terminal dimension

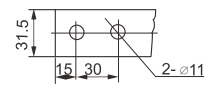


Oil weight: 29kg
gross weight: 143kg



- Oil injection plug
- Oil-level gauge
- China vase
- Nameplate
- Secondary terminal box
- Hanger
- Oil sample valve
- Earth stud

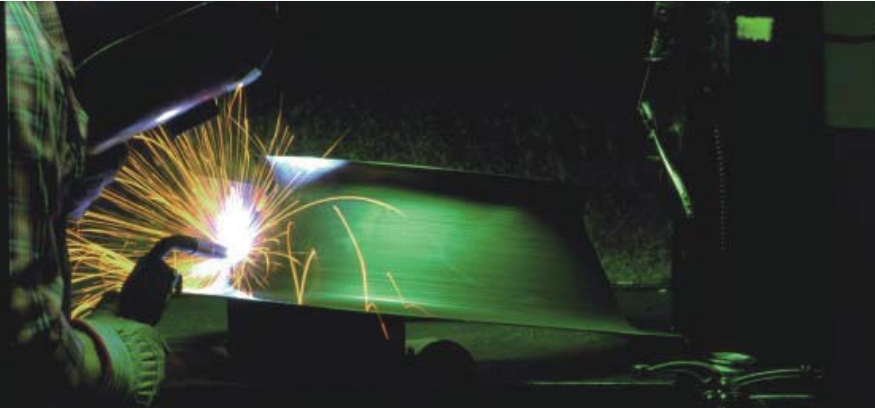
Primary terminal dimension



Oil weight: 24kg
gross weight: 126kg

Notice details:

1. In using, the secondary winding can't be short-circuited or creating over



VACUUM CIRCUIT BREAKER



People Electric
Appliance serves for people.

ZN28-12C SERIES INDOOR AC MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER JYN2 AND KYN1 TYPE HANDCART VACUUM CIRCUIT BREAKER



GENERALS

ZN28-12C Vacuum Circuit Breaker is derived from ZN28 series, three-phase 50Hz indoor medium voltage apparatus. It has JYN2 and KYN1 type handcart Vacuum Circuit Breaker and mainly equipped in distribution system and applied to control and protect furnace transformer, HV motor, capacitor bank, power plant and substation for frequent operation.

OPERATING ENVIRONMENT CONDITION

1. Ambient temperature: $-15^{\circ}\text{C} \sim +40^{\circ}\text{C}$
2. (storage and transport permissible at -30°C)
3. Altitude: Less than 2000m
4. Relative humidity: Daily average value is not more than 95%; monthly average value is not more than 90%;
5. Saturated steam pressure: Daily average value is not more than 2.2kPa; monthly average value is not more than 1.8kPa.
6. Earthquake intensity: No more than degree 8
7. No operation at places such as fire danger, explosion, severe pollution, chemical corrosion and frequent violent vibration.

TECHNICAL PARAMETERS

No.	Name	Unit	630	1250-25	1250-	1600	2000	2000	3150-40
			1250	-20	31.5	31.5	2500	3150	
1	Rated voltage	kV	12						
2	Rated current	A	630	1250	1250	1600	2000	2500	3150
3	Rated Insulation level	power frequency withstand voltage for 1 min	42						
		Lightning withstand voltage	75						
4	Rated short open circuit current	kA	20	25	31.5	40			
5	Rated operation sequence		0-0.3s-C0-180s-C0						
6	Rated short closed circuit current	kA	50	63	80	100			
7	Rated peak withstand current	kA	50	63	80	100			
8	Rated short-time withstand current	kA	20	25	31.5	40			
9	Rated short-time withstand time	S	4						
10	On/Off times of Rated short current	times	30			30(20)			
11	Rated open time	ms	≤ 100						
12	Mechanical life	times	10000						

ZN28-12C SERIES INDOOR AC MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER JYN2 AND KYN1 TYPE HANDCART VACUUM CIRCUIT BREAKER



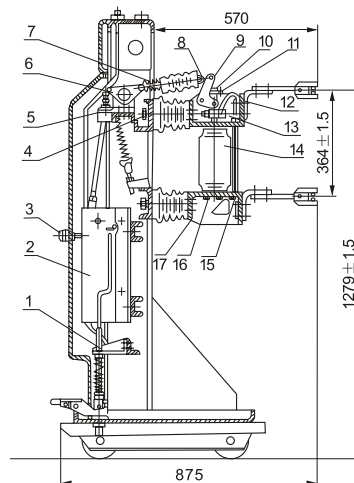
No.	Name	Unit	Data	
			20KA	31.5KA,40KA
1	Contact opening size	mm	11 ± 1	
2	Contact extra size		4 ± 1	
3	Permissible wear thickness of moving and static contact		3	
4	Average speed of switch on	m/s	Low voltage	0.60 ± 0.2
			Rated voltage	
			High voltage	
5	Average speed of switch off	m/s	Low voltage	1.1 ± 0.2
			Rated voltage	
			High voltage	
6	Switch on time	ms	Low voltage	≤ 100
			Rated voltage	
			High voltage	
7	Switch off time	ms	Low voltage	≤ 0.6
			Rated voltage	
			High voltage	
8	Bounce time of contact on		≤ 2	
9	Three phase switch off synchronicity of the time difference		≤ 2	
10		μ Ω	≤ 50	≤ 40

STRUCTURAL FEATURE

The product overall framework is handcart assembling style, each arc extinguishing chamber is fixed on mount of outgoing line by two pieces of insulators, driving contact rod by regulating lever, adopting flexible joint to conduct open-close switch current. The structure is stable and wallop is light when switching on. Their operation mechanism is CD17 electromagnetic mechanism and CT19 spring mechanism optionally.

OUTLINE AND MOUNTING DIMENSIONS

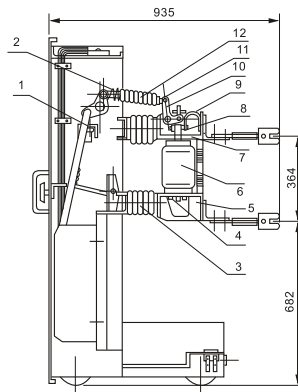
JYN2 handcart Vacuum Circuit Breaker



- 1.interlocking mechanism
- 2.operation mechanism
3. tripping button
4. bolt
5. filling piece for space adjusting
6. main shaft
- 7.contact spring
8. adjusting bolt for contacting travel
- 9.regulating lever
- 10.guide rod
- 11.guide plate
- 12.moving bracket
- 13.binding bolt of conductive clamp
- 14.vacuum interrupter
- 15.bolt
16. set bolt of arc extinguishing
17. fixed bracket

ZN28-12C SERIES INDOOR AC MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER JYN2 AND KYN1 TYPE HANDCART VACUUM CIRCUIT BREAKER

KYN1 HANDCART VACUUM CIRCUIT BREAKER



1. filling piece for space adjusting
2. contact pressure spring
3. insulator
4. bolt of Vacuum interrupter
5. down-bracket
6. vacuum interrupter
7. up-bracket
8. bolt of conductive clamp
9. flexible joint
10. regulating lever
11. adjusting bolt for contacting travel
12. draw rod

ORDERING INFORMATION

- | | |
|------------------------------|------------------------------|
| 1. type and parameter | 4. operation mechanism |
| 2. switchgear type and width | 5. with /or without arrester |
| 3. rated operating voltage | 6. special requirement |

ZN73-12(VS1) INDOOR VACUUM CIRCUIT BREAKER

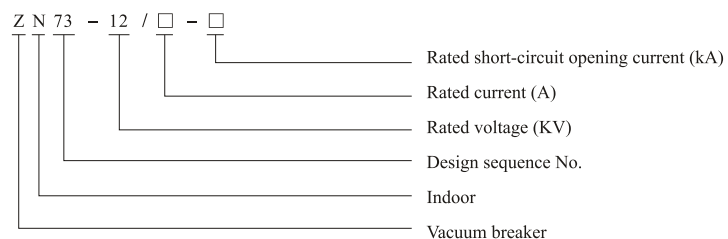
GENERALS

ZN73-12(VS1) Indoor AC high-voltage vacuum breaker is applicable to making and breaking load of various character and also for frequent operation in power systems of 3-phase, AC 50HZ and with rated voltage of 12 KV. It can be used for protecting and controlling of electrical equipment in industrial plants, mines, power generation plants and substations.

Vacuum breaker complies with national standard GB1984 and JB3855.



MODEL MEANING



ZN73-12(VS1) INDOOR VACUUM CIRCUIT BREAKER

AMBIENT CONDITIONS FOR OPERATION



1. Ambient temperature: max +40°C; min -10°C.
2. Altitude: not exceeding 2000m.
3. Relative humidity: daily average relative humidity: ≤95%. Monthly average relative humidity: ≤90%. Daily average saturated steam pressure: ≤2.2×10⁻³ Mpa. Average monthly saturated steam pressure: ≤1.8×10⁻³ Mpa. During the period of high degree of humidity, it may cause condensation when the temperature pelts down.
4. Earthquake intensity: not exceeding 8.
5. There shall be no danger of inflammability and explosion, no chemical corrosion and intensive vibration at the operation place.
6. The location using this product is a place not always oscillates acutely.

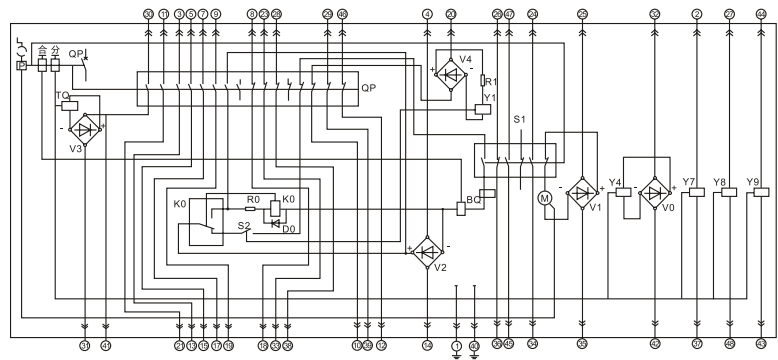
MAIN TECHNICAL PARAMETERS

Table 1

Rated voltage kV		12			
Rated frequency Hz		50			
Rated insulation level	Power frequency withstand voltage for 1 min	42/48 (virtual value)			
	Lightning impulse withstand voltage	75/85(peak value)			
Rated operation sequence resistance of Major loop		Off-t-on/off-t'-on/off* ≤50			
Mechanical service life times		10000			
Type	Rated current A	Rated short-circuit opening current kA	Rated short-circuit closing current (peak value) kA	Sustained time at rated short-circuit current (s)	On/off times at rated short-circuit current
ZN73-12/630-20	630	20/25	50/63	4	100
ZN73-12/1250-20	1250				
ZN73-12/1250-31.5	1250	31.5	80		50
ZN73-12/1600-31.5	1600				
ZN73-12/2000-31.5	2000				
ZN73-12/2500-31.5	2500	40	100		30
ZN73-12/1250-40	1250				
ZN73-12/1600-40	1600				
ZN73-12/2000-40	2000				
ZN73-12/2500-40	2500				
ZN73-12/3150-40	3150				

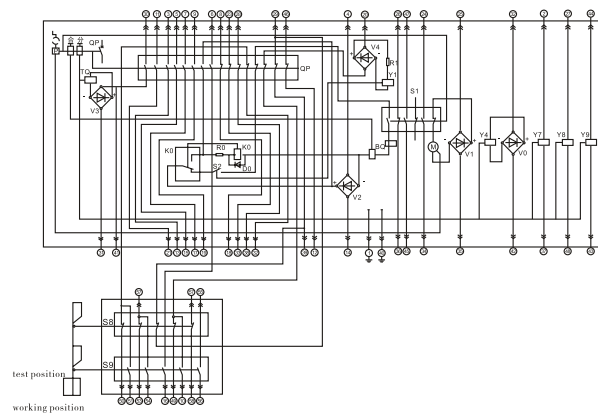
NOTE: when short-circuit opening current is 20,25,31.5kA, t=0.3s, t'=180s.
when short-circuit opening current is 40kA, t=180s, t'=180s

ZN73-12(VS1) INDOOR VACUUM CIRCUIT BREAKER



- K0-Trip-proof relay mechanism
- R0, R1-Current limiting Resistor
- Y7-Y9-Indirect over current release (optional part)
- P-Manual operation mechanism
- D0-Diode
- Y4-Under voltage release(optional part)
- V0-V4-rectifying element
- Y1-Locked eletromagnet (optional part)
- TQ-Switch off release
- S2-Auxiliary switch of locked eletromagnet(optional part)
- QF-Auxiliary switch of circuit breaker's main contact
- HQ-Switch on release
- M-Energy stored motor
- S1-Sensitive switch

Drawing1: Fixed type schematic diagram



Drawing2: Withdrawable type schematic diagram

- K0-Trip-proof relay mechanism
- D0-Diode
- R0, R1-Current limiting Resistor
- Y4-Under voltage release(optional part)
- Y7-Y9-Indirect over current release (optional part)
- V0-V4-rectifying element
- P-Manual operation mechanism
- Y1-Locked eletromagnet (optional part)
- HQ-Switch on release
- TQ-Switch off release
- M-Energy stored motor
- S9-Auxiliary switch which used in working position
- S8-Auxiliary switch which used in test position
- S7-Auxiliary switch of locked eletromagnet(optional part)
- S1-Sensitive switch
- QF-Auxiliary switch of circuit breaker's main contact

Table 2 Mechanism character of the circuit breaker

Table 2

Name	Unit	Data			
Contact opening size	mm	11 ± 1			
Contact extra size		3.5 ± 0.5			
Three phase switch off synchronicity of the time difference	ms	≤ 2			
Bounce time of contact on		≤ 2			
Switch off time		≤ 50			
Switch on time		≤ 100			
Average speed of switch off	m/s	0.9~1.3			
Average speed of switch on		0.4~0.8			
Pressure of contact surface of switch on contact	N	20kA	25kA	31.5kA	40kA
		2000 ± 200	2400 ± 200	3100 ± 200	4750 ± 250
Permissible wear thickness of moving and static contact	mm	3			

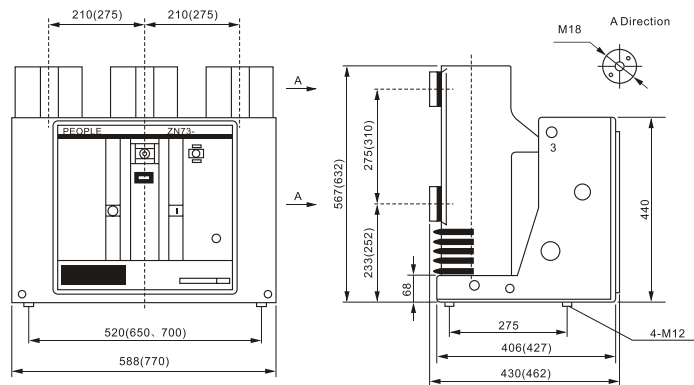
ZN73-12(VS1) INDOOR VACUUM CIRCUIT BREAKER

Table 3 Technical parameter of operation machine

Operation power		AC/DC	
Rated voltage		220V/110V	
Rated frequency	Switching-off release	264W	
	Switching-on release	264W	
	Energy stored generator	20kA 25kA 31.5kA	40kA
		70W	100W
Voltage range in normal operation	Switching-off release	65%~120% Rated voltage	
	Switching-on release	85%~110% Rated voltage	
	Energy stored generator	85%~110% Rated voltage	
Energy-stored time		≤10S	

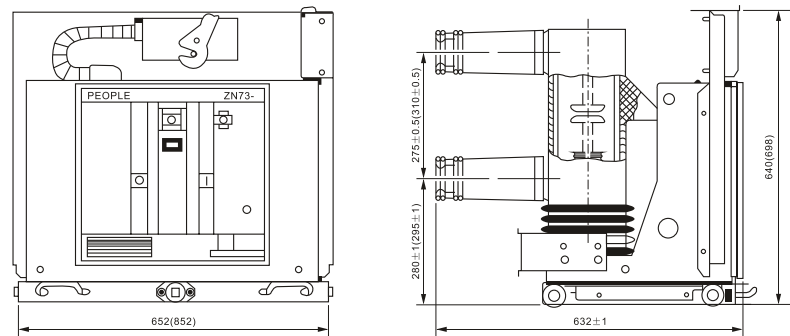


OUTLINE AND MOUNTING DIMENSIONS



Note: The data in parenthesis is for VCB which rated current is more than 1600A

Drawing 1: Outline dimension of fixed type



Note: The data in parenthesis is for VCB which rated current is more than 1600A

Drawing 2: Outline dimension of withdrawable type

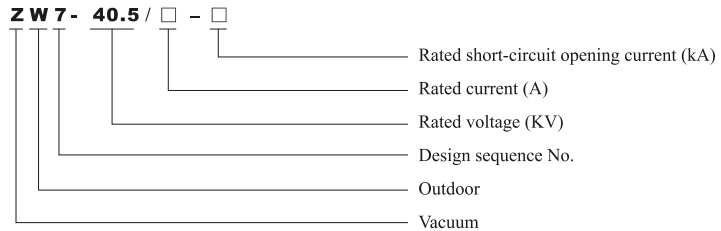
ZW7-40.5 TYPE OUTDOOR MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER

GENERALS

ZW7-40.5/2000-31.5 outdoor HV vacuum circuit breaker can be used in the power system with rated voltage 40.5KV, rated current up to 2000A and three-phase AC 50HZ to protect the equipment in industrial and mineral enterprises, power plants and substations. It can be used as a connecting circuit breaker in the workplaces of frequent operation. This product complies with the standards of the GB1984-89 AC HV Circuit Breaker, IEC56 HV AC Circuit Breaker and JB3385-1996 3.6-40.5KV Indoor AC HV Vacuum Circuit Breakers.



MODEL MEANING



AMBIENT CONDITIONS FOR OPERATION

1. Ambient temperature: max +40°C; min -40°C.
2. Altitude: not exceeding 2000m.
3. Wind pressure: less than 700Pa (equal to wind speed 34m/s)
4. Air pollution: class 3

MAIN TECHNICAL PARAMETERS

Table 1

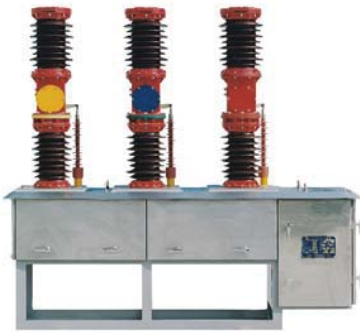
No.	Name	Unit	Data
1	Rated voltage 75/85(peak value)	kV	40.5
2	Rated Insulation level	Power frequency withstand voltage for 1 min dry test	kV 95
		wet test	kV 80
		Lightning impulse withstand voltage	kV 185
3	Rated current	A	1250/1600/2000
4	Rated short open circuit current	kA	20/25/31.5
5	Rated operation sequence		0-0.3s-C0-180s-C0
6	Rated breaking current for capacitor bank	A	400
7	Rated short closed circuit current	times	20
8	Rated short time withstand current(peak value)	kA	50/63/80
9	Rated withstand current(peak value)	kA	50/63/80
10	Rated short time withstand current	kA	20/25/31.5
11	Rated short circuit persistent time	S	4
12	Rated making time	S	≤0.08
13	Mechanical life	times	10000
14	Rated operating voltage and rated voltage of auxiliary circuit	V	AC、DC 220、110

ZW7-40.5 TYPE OUTDOOR MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER

Table 2

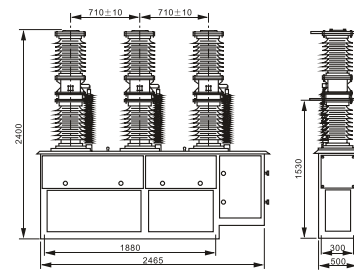
No.	Name	Unit	Data
1	Contact opening size	mm	22±2
2	Contact extra size	mm	4±1
3	Average speed of switch off	m/s	1.5±0.2
4	Average speed of switch on	m/s	0.7±0.2
5	Bounce time of contact on	ms	≤3
6	Three phase switch off synchronicity of the time difference	ms	≤2
7	Switch on time	ms	≤150
8	Switch off time	ms	≤60
9	DC resistor of per phase circuit	μΩ	≤100

Notes: The DC resistance value of each phase circuit does not include the resistance value of current transformer.



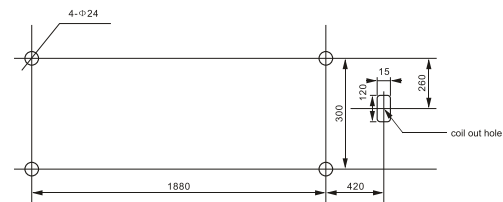
OUTLINE AND MOUNTING DIMENSIONS

1、Outline dimension

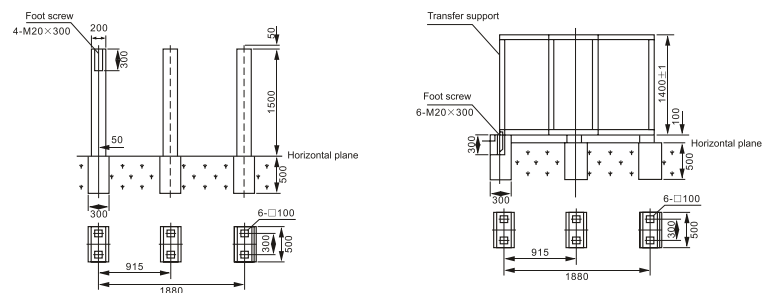


2、Outline size

2.1 Outline size please see drawing



2.2 Installs the foundation dimensional drawing



ORDERING INFORMATION

1. type and parameter
2. switchgear type and width
3. rated operating voltage
4. operation mechanism
5. with /or without arrester
6. special requirement

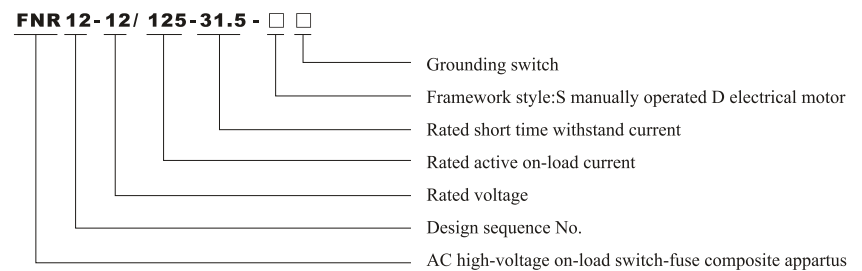
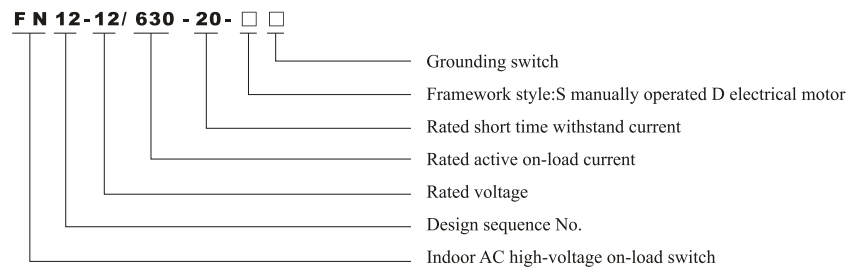
FN12-12 TYPE OUTDOOR MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER

GENERALS

The composite apparatus of FN12-12 and FNR12-12 is three-phase high-voltage switchgear with rated voltage 12kV, rated frequency 50Hz, applying to separate and close load current, closed-loop current, charging current of no-load transformer and cable, to close the short circuit current and assembling equip load switch of grounding switch. It can bear short circuit current. It is mainly applied as loading control and short circuit protection in downtown distribution station of three-phase rig net or terminal power supply and industrial consumer.



OPERATING ENVIRONMENT CONDITION

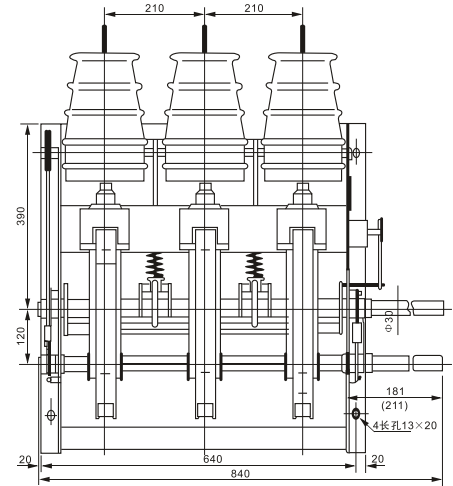
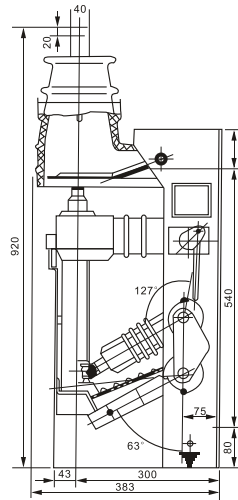


TECHNICAL PARAMETERS

No.	Name	Unit	FN12-12/630	FNR12-12/125
1	Rated voltage	kV	12	
2	Rate Frequency	Hz	50	
3	Rated current	A	630	125
4	Lightning impulse withstand voltage	kV	To earth and between phase 75、 across insulator 85	
5	Power frequency withstand voltage for 1 min	kV	To earth and between phase 42、 across insulator 48	
6	Rated short time withstand current	kA	20(4S)	
7	Rated peak withstand current	kA	50	
8	Rated short closed circuit current	kA	50	
9	Rated short open circuit current	kA	31.5	
10	Minimum breaking current	kA	Subject to characteristic curve of fuse	
11	Rated transfer current	kA	1.5	
12	Maximum breaking current Irefremce value	kA	1.8	
13	Capacity of breaking no-load transformer	kVA	1600	
14	Rated charging current of breaking cable	A	16	
15	Breaking times of rated active on-load current	次	>100	
16	Gate-separate time of striker triggering load switch	S	<0.06	
17	Short time withstand current of grounding switch	kA	20(2S)	
18	Peak withstand current of grounding switch	kA	50	
19	Operating voltage		AC/DC 220	

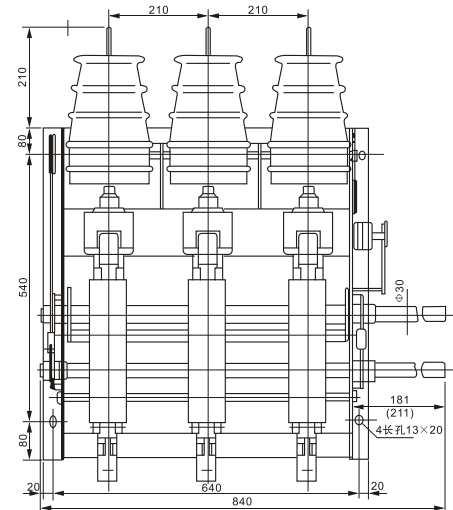
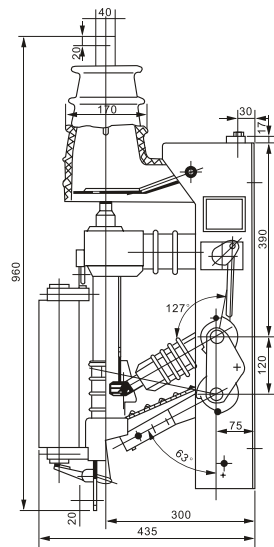
FN12-12 TYPE OUTDOOR MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER

OUTLINE AND MOUNTING DIMENSIONS



Notes: The user specially requires the principle axis nose with hole $\Phi 10$, the size should 870mm

Drawing 1: Outline diagram of FN12-12 style indoor high-voltage load switch

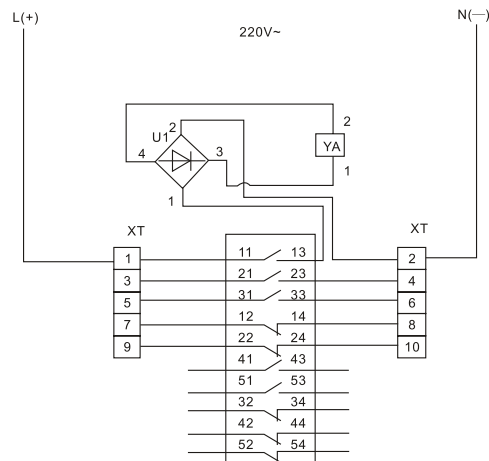


Notes: The user specially requires the principle axis nose with hole $\Phi 10$, the size should 870mm

Drawing 2: Structural representation, outline and installing dimension diagram of load switch-fuse composite apparatus.

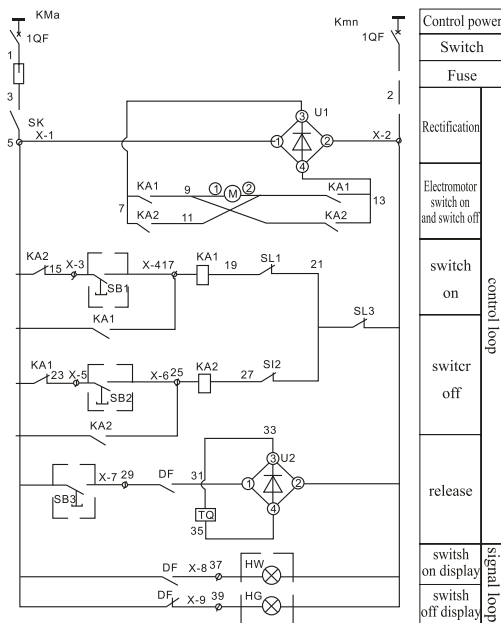
FN12-12 TYPE OUTDOOR MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER

SCHEMATIC DIAGRAM OF MOTOR SWITCH-OFF AND MOTOR OPERATION MECHANISM



Code	Name	Qty	Note
FU	Fuse 6A	1	The user assemble by himself
YA	Switch-off electromagnet (220V~)	1	5WXJ,617,001G
U1	Bridge style full wave rectifier	1	KBPC25-10
S	Auxiliary switch	1	F10-10/W
XT	Connection terminal row	1	JH9 660V/15A

Drawing3: Schematic diagram of motor switch off

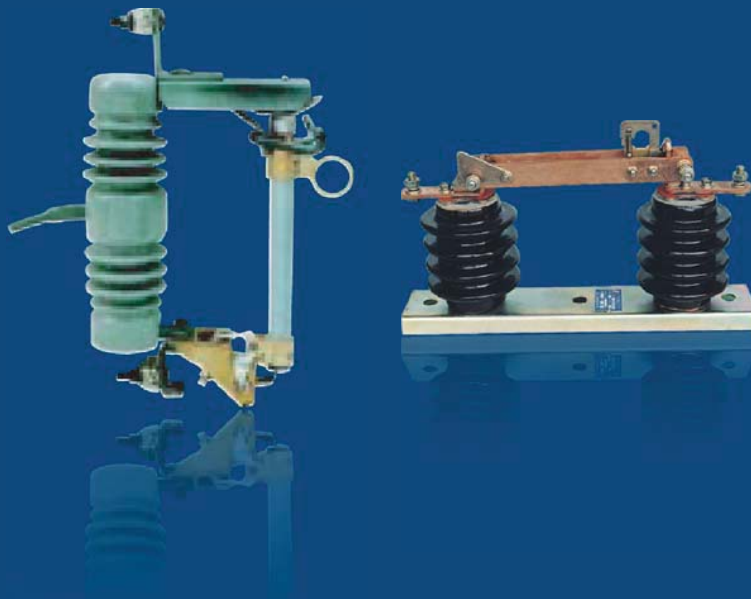


Code	Name	Qty	Note
DF	Auxiliary switch FK 10	1	
TQ	Switch-trip coil	1	
SL3	Grounding knife interlock limiting switch LXW2-11	1	
SL2	Switch off limiting switch LXW2-11	1	
SL1	Switch on limiting switch LXW2-11	1	
SB3	Button of switch off in emergency	1	The user assemble by himself
SB2	Button of switch off	1	The user assemble by himself
SB1	Button of switch on	1	The user assemble by himself
M	Electromotor 59ZYCJ02	1	
KA2	Switch off relay HH54P	1	
KA1	Switch on rela HH54P	1	
U1U2	Rectifier KBPC2510	1	
HG	Switch off indicating lamp	1	The user assemble by himself
HW	Switch on indicating lamp	1	The user assemble by himself
SK	Master switch LS2-2	1	The user assemble by himself
FU	Fuse RT19-6A	1	The user assemble by himself
QF	Circuit breaker C45N-10A	1	The user assemble by himself

Drawing4: Schematic diagram of motor operation mechanism



DROP-OUT FUSE



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Appliance serves for people.



Rohs CB



ISO9001 ISO14001 OHSAS18001



中国·人民电器集团
PEOPLE ELE. APPLIANCE GROUP CHINA

DROP-OUT FUSE

DROP-OUT FUSE SERIES

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)
PEP-1	15	100	10000	110	40	250	7.3	38.5x34.5 x10.5
PEP-1	15	200	12000	110	40	250	7.3	



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)
PEP-2	15	100	10000	110	40	250	7.5	40 x 34.5 x11
PEP-2	15	200	12000	110	40	250	7.5	



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)
PEP-3	15	100	10000	110	40	250	7.3	38.5 x 34.5 x 10.5
PEP-3	15	200	12000	110	40	250	7.3	



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)
PEP-4	15	100	8000	110	40	340	7.5	42 x 33 x11.5
PEP-4	15	200	10000	110	40	340	7.5	





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DROP-OUT FUSE

DROP-OUT FUSE SERIES

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)
PEP-5	15	100	10000	110	40	350	3.5	42 x 35
PEP-5	15	200	12000	110	40	350	3.5	x 11

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)
PEP-6	15	100	10000	110	40	350	3.8	45 x 35
PEP-6	15	200	12000	110	40	350	3.8	x 12

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)
PEP-7	15	100	6000	110	42	340	7.5	49 x 27
PEP-7	15	200	8000	110	42	340	7.5	x 11.5

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)
PEP-8	15	100	6000	110	45	530	12	51.5 x 51.5
PEP-8	15	200	8000	110	45	530	12	x 13



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DROP-OUT FUSE

DROP-OUT FUSE SERIES

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)
PEP-9	15	100	10000	110	40	300	7.5	39x34.5 x10.5
PEP-9	15	200	12000	110	40	300	7.5	

10KV-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)
PEP-10	15	100	10000	110	45	380	7.3	45.5x 35.5 x10.5
PEP-10	15	200	12000	110	45	380	7.3	

10KV-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)
PEP-11	15	100	10000	110	40	260	8.5	48.5 x 44 x 13.5
PEP-11	15	200	12000	110	40	260	8.5	

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)
PEP-12	15	100	10000	125	45	350	8.5	48 x 34.5 x 10.5
PEP-12	15	200	12000	125	45	350	8.5	



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DROP-OUT FUSE

DROP-OUT FUSE SERIES

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)
PEP-13	15	100	10000	125	45	350	8.8	51.5x34 x12
PEP-13	15	200	12000	125	45	350	8.8	

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)
PEP-14	15	100	10000	125	45	350	8.5	45 x 34.5 x10
PEP-14	15	200	12000	125	45	350	8.5	

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)
PEP-15	15	100	10000	125	45	350	8.5	48 x 35 x10.5
PEP-15	15	200	12000	125	45	350	8.5	

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)
PEP-16	15	100	10000	125	45	350	12	50 x 36 x13
PEP-16	15	200	12000	125	45	350	12	



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DROP-OUT FUSE

DROP-OUT FUSE SERIES

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)
PEP-17	15	100	10000	125	45	350	8.5	48x35
PEP-17	15	200	12000	125	45	350	8.5	x10.5

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)
PEP-18	24	100	8000	150	65	530	12	48 x 34.5
PEP-18	24	200	10000	150	65	530	12	x14

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)
PEP-19	24	100	8000	150	65	540	12	49 x 35
PEP-19	24	200	10000	150	65	540	12	x14

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)
PEP-20	24	100	8000	150	65	470	13	56 x 38
PEP-20	24	200	10000	150	65	470	13	x10.5



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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)
PEP-21	30	100	6000	170	70	700	15	56 x 38
PEP-21	30	200	8000	170	70	700	15	x 14.5

33KV-36KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-22	33	100	10000	170	70	720	15.5	57 x 38
PEP-22	33	200	12000	170	70	720	15.5	x 14.5

33-36KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-23	33	100	8000	170	70	820	27.5	68 x 17
PEP-23	33	200	10000	170	70	820	27.5	x 15

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)
PEP-24	15	100	10000	125	45	350	8.0	50 x 36
PEP-24	15	200	12000	125	45	350	8.0	x 13



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10KV-15KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(a)	10-15	100	10000	110	40	380
PEP-G(a)	10-15	200	12000	110	40	380



10KV-15KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(b)	10-15	100	10000	110	40	380
PEP-G(b)	10-15	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)
PEP-G(c)	24-27	100	6000	150	65	560
PEP-G(c)	24-27	200	8000	150	65	560



24KV-27KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(d)	24-27	100	6000	150	65	650
PEP-G(d)	24-27	200	8000	150	65	650



24KV-27KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(e)	24-27	100	6000	150	65	800
PEP-G(e)	24-27	200	8000	150	65	800

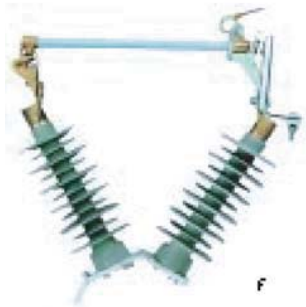




DROP-OUT FUSE SERIES

27KV-33KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(f)	27-33	100	6000	170	70	1070
PEP-G(f)	27-33	200	8000	170	70	1070



f

27KV-33KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(g)	27-33	100	6000	170	70	620
PEP-G(g)	27-33	200	8000	170	70	620



g

30KV-33KV

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



h

36KV-38KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(i)	36-38	100	6000	180	75	820
PEP-G(i)	36-38	200	8000	180	75	820



i



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DROP-OUT FUSE

KB KU KS TYPE OF FUSE WIRE(FUSE LINK)

“KB” “KU” “KS” type fuses belong to “K” type fuse, it has general type, universal type and screw type, It according as IEC-282 standard. This product apply to drop-off type fuse of 11~36KV grade.



Rated current (A)	Dimension (mm)						Quantity/ carton	
	AB			C	D	F		
1 to 25	12.5	0.2	19.0	0.2	Note 1	2.0	6.5	500
30 to 40	12.5	0.2	19.0	0.2	Note 1	3.0	8.0	500
50 to 100	19.0	0.3	Not applicable		Note 1	5.0	10.0	250
140 to 200	19.0	0.3	Not applicable		Note 1	7.0	12.0	150

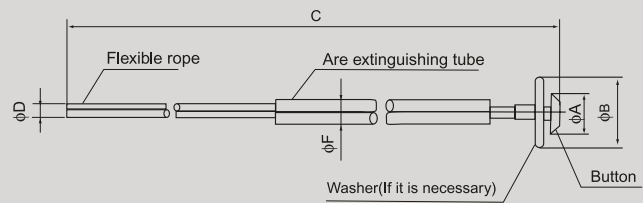
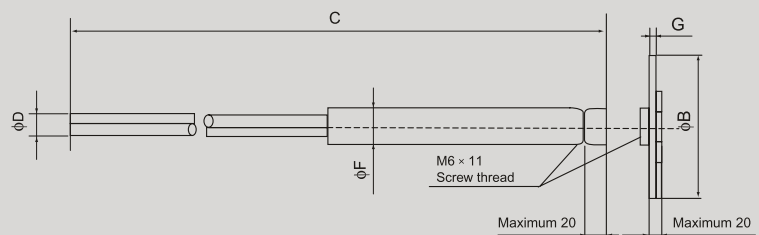


Fig.B.1a button type

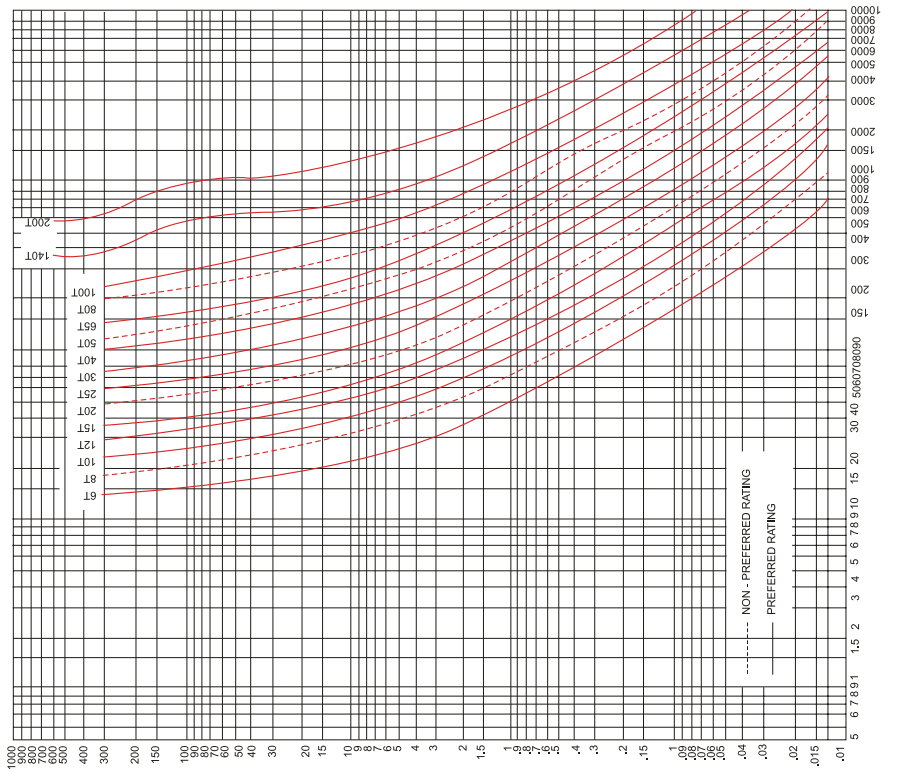
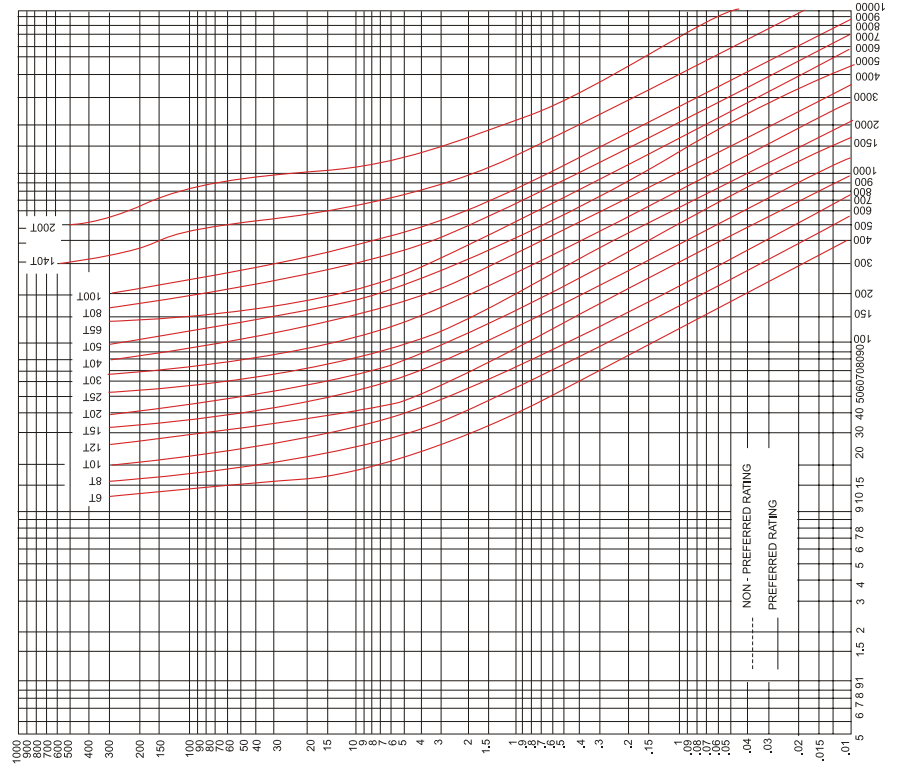




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DROP-OUT FUSE

KB KU KS TYPE OF FUSE WIRE CURRENT IN AMPERS

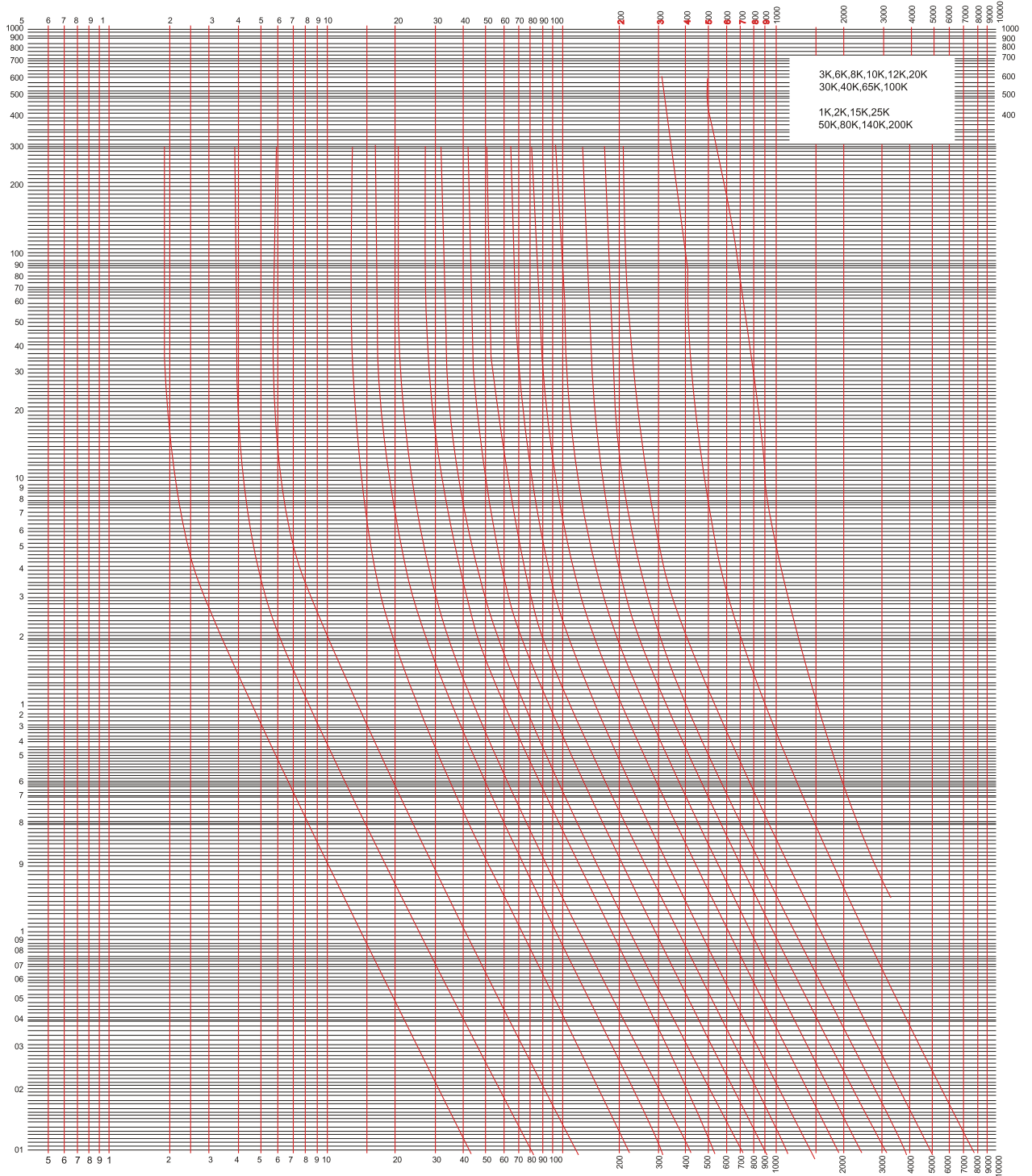




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DROP-OUT FUSE

KB KU KS TYPE OF FUSE WIRE CURRENT IN AMPERS



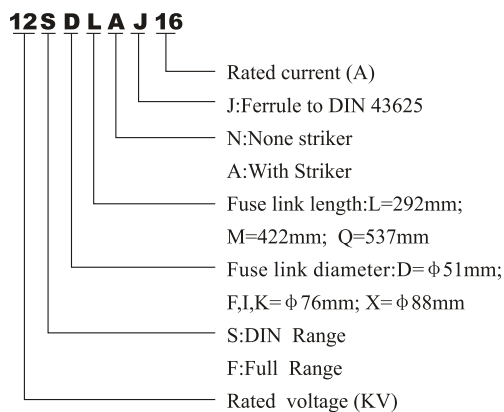
FOR FULL RANGE TRANSFORMER PROTECTION



CHARACTERISTIC BRIEF

1. Rated voltage from 7.2KV to 40.5KV
2. Wide range of rated current from 6.3A to 200A
3. Full range performance options available at 12KV and 24KV
4. Powerful pyrotechnic or spring striker
5. H.R.C.
6. Current-limiting
7. Low power dissipation, low temperature rise
8. Operation extremely quickly, high reliability
9. With primary coil of transformer in series
10. Isolating & protecting transformer
11. Conforming to standards: GB15166.2 DIN43625 BS2692-1 IEC60282-1

MODEL ILLUSTRATION

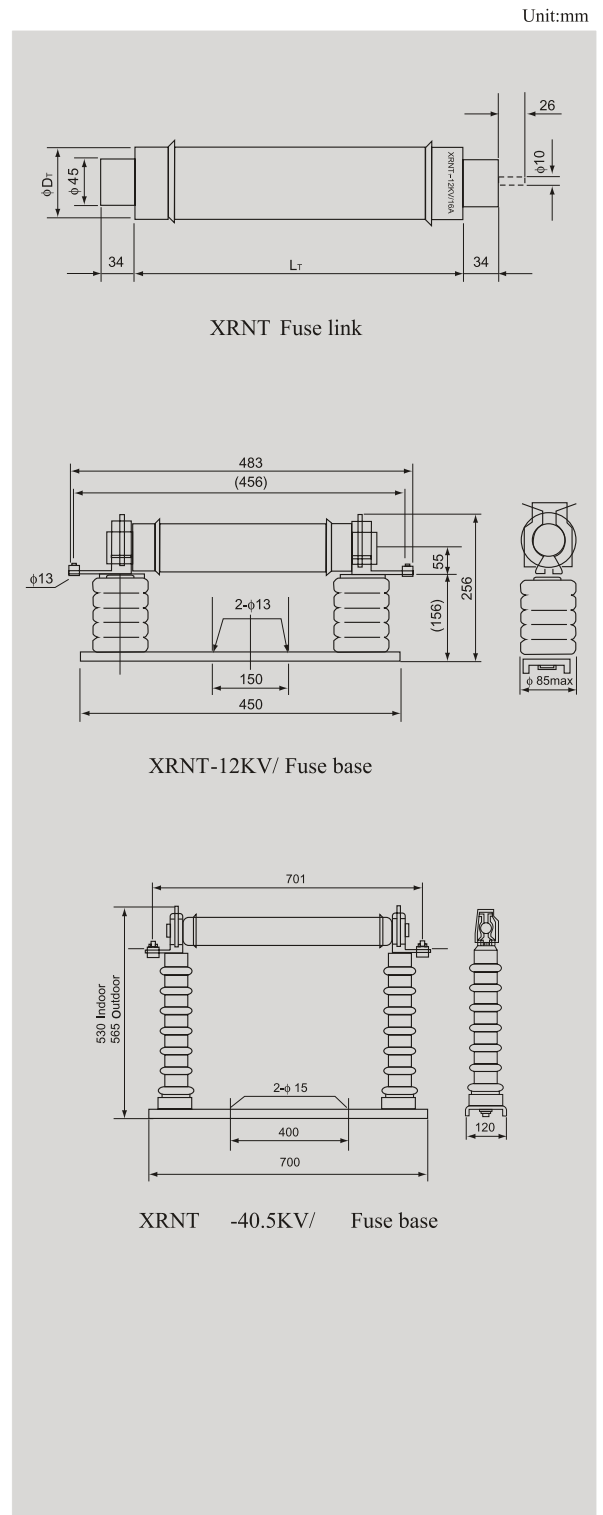


FOR FULL RANGE TRANSFORMER PROTECTION

XRNT SELECTION TABLE

Model	Rated voltage U _n (KV)	Rated current I _n (A)	Diameter Length D _T L _T (mm)	Breaking capacity I _b (KA)		
XRNT	7.2 10 12	6.3	φ 51 × 292	63		
		10				
		16				
		20				
		25				
		31.5				
		40	φ 76 × 292			
		50				
		63				
		80				
	100					
	17.5 24	125	φ 88 × 292	50		
		160				
		200				
		6.3			φ 51 × 442	63
		10				
		16				
		20				
		25				
		31.5				
40		φ 76 × 442				
50						
63						
80						
100						
36 40.5	125	φ 88 × 442	40			
	160					
	200					
	6.3			φ 51 × 537		
	10					
	16					
	20					
	25					
31.5						
40	φ 76 × 537					
50						
63						

XRNT EXTERNAL&INSTALLATIONDIMENSIONS



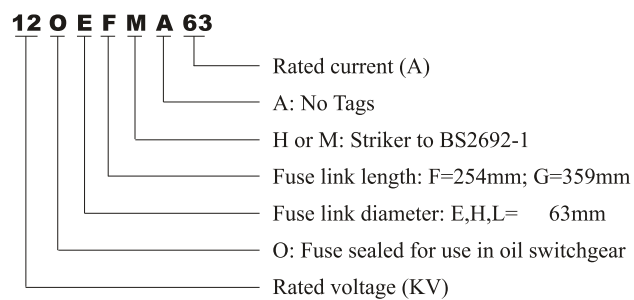
FOR USE IN OIL SWITCHGEAR



CHARACTERISTIC BRIEF

1. Rated voltage from 3.6KV to 12KV
2. Wide range of rated current from 6.3A to 250A
3. Powerful pyrotechnic striker
4. Unique tripe seal
5. H.R.C.
6. Current-limiting
7. Low power dissipation, low temperature rise
8. Operation extremely quickly, high reliability
9. Mainly used for back-up protection in transformers of American type
10. Conforming to standards: GB15166.2 BS2692-1 / IEC60282-1

MODEL ILLUSTRATION





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HV H.R.C FUSE SERIES

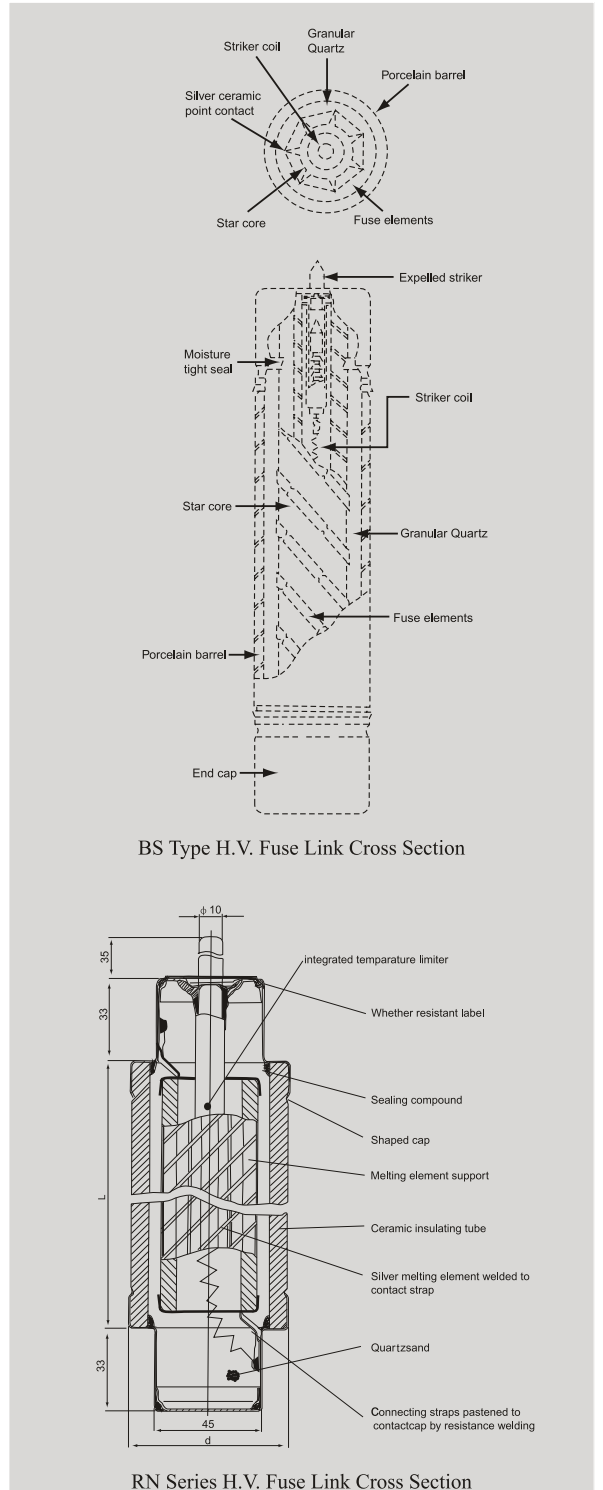
FOR USE IN OIL SWITCHGEAR

XRNO 1 SERIES SELECTION TABLE

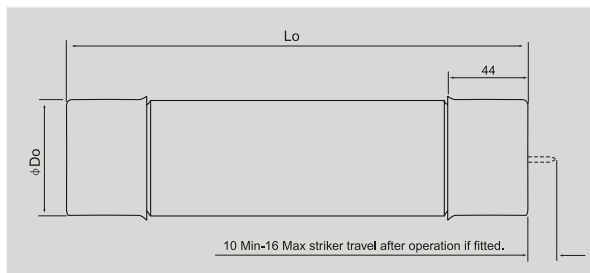
Model	Rated voltage Un(KV)	Rated current n(A)	Diameter Length DO LO (mm)	Breaking capacity I(KA)
XRNO ₁	3.6	6.3	φ 63 × 254	50
		10		
		16		
		20		
		25		
		31.5		
		40		
		50		
		63		
		80		
		100		
		125		
		160		
		200		
	250			
	7.2	80	φ 63 × 359	45
		100		
		112		
		100		
		125		
		140		
160				
12	6.3	φ 63 × 359	40	
	10			
	16			
	20			
	25			
	31.5			
	40			
	50			
	63			
	71			
	80			
90				
100				
125				

BS&DIN TYPE H.V. FUSE LINK CROSS SECTION COMPARED

Unit:mm



XRNO 1 External Dimensions

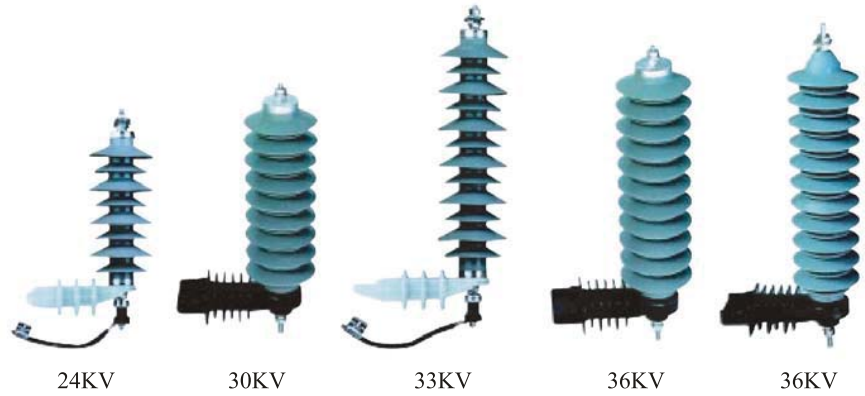


POLYMERIC HOUSED METAL-OXIDE SURGE ARRESTER WITHOUT GAPS NOMINAL DISCHARGE CURRENT 5KA(3-36KV)



Type	MOA Rated voltage KV(rms)	MCOV KV(rms)	Current impulse Residual Voltage			2ms Rectangular current impulse withstand KV(crest)	4/10s High current impulse withstand KV(crest)
			1/4s Lightning current impulse KV(crest)	8/20s Lightning current impulse KV(crest)	30/60s Switching current impulse KV(crest)		
HY5W-3	3	2.55	11.3	9	8.9	150	65
HY5W-6	6	5.1	22.6	18	16.8	150	65
HY5W-9	9	7.65	33.7	27	23.8	150	65
HY5W-10	10	8.4	36	30	23	150	65
HY5W-11	11	9.4	40	33	30	150	65
HY5W-12	12	10.2	42.2	36	27	150	65
HY5W-15	15	12.7	51	45	38.5	150	65
HY5W-18	18	15.3	61.5	54	46.2	150	65
HY5W-21	21	17.0	71.8	63	54.2	150	65
HY5W-24	24	19.5	82	72	62	150	65
HY5W-27	27	22.0	92	81	69.8	150	65
HY5W-30	30	24.4	102	90	79	150	65
HY5W-33	33	27.5	112	99	86.7	150	65
HY5W-36	36	29.0	123	108	92.4	150	65

POLYMERIC HOUSED METAL-OXIDE SURGE ARRESTER WITHOUT GAPS NOMINAL DISCHARGE CURRENT 10KA(3-36KV)



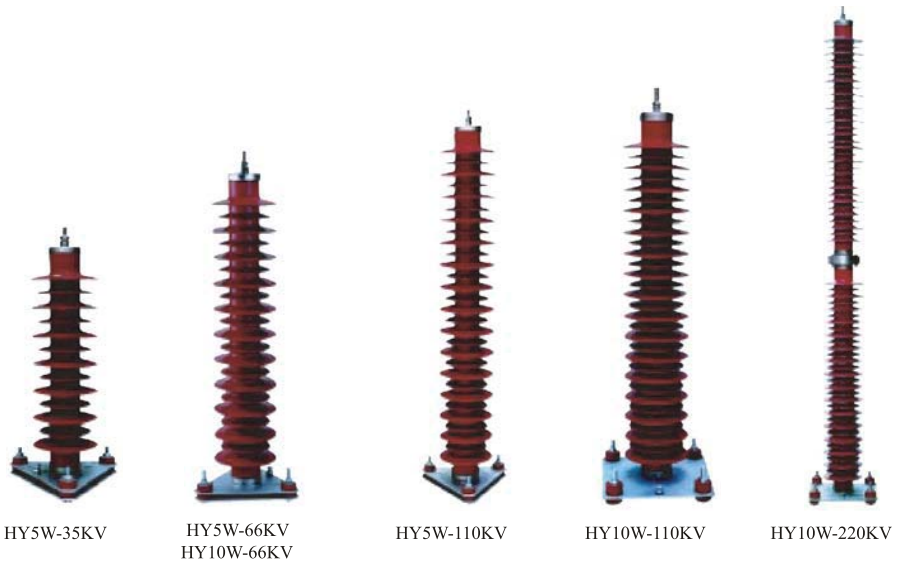
Type	MOA Rated voltage KV(rms)	MCOV KV(rms)	Current impulse Residual Voltage			2ms Rectangular current impulse withstand KV(crest)	4/10s High current impulse withstand KV(crest)
			1/4 s Lightning current impulse KV(crest)	8/20 s Lightning current impulse KV(crest)	30/60 s Switching current impulse KV(crest)		
HY10W-3	3	2.55	11.3	9	8.9	250	100
HY10W-6	6	5.1	22.6	18	16.8	250	100
HY10W-9	9	7.65	33.7	27	23.8	250	100
HY10W-10	10	8.4	36	30	23	250	100
HY10W-11	11	9.4	40	33	30	250	100
HY10W-12	12	10.2	42.2	36	27	250	100
HY10W-15	15	12.7	51	45	38.5	250	100
HY10W-18	18	15.3	61.5	54	46.2	250	100
HY10W-21	21	17.0	71.8	63	54.2	250	100
HY10W-24	24	19.5	82	72	62	250	100
HY10W-27	27	22.0	92	81	69.8	250	100
HY10W-30	30	24.4	102	90	79	250	100
HY10W-33	33	27.5	112	99	86.7	250	100
YH10W-36	36	29.0	123	108	92.4	250	100

PORCELAIN HOUSED METAL-OXIDE SURGE ARRESTER WITHOUT GAPS (3-36KV)



Type	Rated voltage of arrester KV	Max. continuous operating voltage	D.C.(U1mA) reference voltage kV not less than	Nominal discharge current	Max residual voltage(peak)			Current impulse withstand discharge capacity	
					Steep current impulse KV	Lightning impulse current KV	Switching current impulse KV	2000s A	4/10s KA
Y1.5W-0.28/1.3	0.28	0.24	0.6	1.5	1.4	1.3		75	25
Y1.5W-0.5/2.6	0.5	0.42	1.2	1.5	2.7	2.6		75	25
Y5W-3/10	3	2.55	5.5	5	11.3	10	8.9	150	65
Y5W-6/20	6	5.2	11	5	22.6	20	17.8	150	65
Y10W-3/10	3	2.55	5.2	10	11.3	10	8.9	250	100
Y10W-6/20	6	5.2	10.8	10	22.6	20	17.8	250	100
Y5W-9/30	9	7.70	16.0	5	34	30	26.8	150	65
Y5W-11/36	11	9.4	19.5	5	41.5	36	32.7	150	65
Y5W-12/39	12	10.2	21.5	5	45.3	39	35.7	150	65
Y10W-9/30	9	7.7	16.0	10	34	30	26.8	250	100
Y10W-11/36	11	9.4	19.2	10	41.5	36	32.7	250	100
Y10W-12/39	12	10.2	21.3	10	45.3	39	35.7	250	100
Y5W-15/42	15	12.75	22.0	5	47.5	42	35.8	150	65
Y5W-18/50	18	15.3	26.5	5	57.0	50	43.0	150	65
Y10W-15/42	15	2.75	22.0	10	47.5	42	35.8	250	100
Y10W-18/50	18	15.3	26.0	10	57.0	50	43.0	250	100
Y5W-21/62	21	17.1	33.4	5	70.0	62	54.2	150	65
Y5W-24/70	24	19.5	38.0	5	80.0	70	62.0	150	65
Y10W-21/62	21	17.1	33.0	10	70.0	62	54.2	250	100
Y10W-24/70	24	19.5	37.0	10	80.0	70	62.0	250	100
Y5W-36/100	36	30.4	54.5	5	115	100	86.7	150	65
Y10W-36/100	36	30.4	54.0	10	115	100	86.7	250	100

POLYMERIC HOUSED METAL-OXIDE SURGE ARRESTER (35-220KV)



Type	Rated voltage of arrester kV	Nominal voltage of system (virtual value) kV	Continuous operating voltage (virtual value) kV	Reference voltage not less than D.C (U _{1mA}) kV	Max residual voltage(peak)			2000 s rectangular impulse current (peak value) A	4/10 s impulse current (peak value) KA	The max. leakage current of 0.75DC reference voltage A
					Steep current impulse KV	Lightning impulse current KV	Switching current impulse KV			
HY5WZ-42/134	42	35	23	73	154	134	114	150	65	50
HY5WZ-51/134	51	35	40.8	73	154	134	114			
HY5WZ-52.7/134	52.7	35	40.8	73	154	134	114			
HY5WZ-54/134	54	35	41	73	154	134	114			
HY5W-75/215	75	66	60	123	248	215	183	400	65	50
HY5W-90/224	90	66	72.5	130	258	224	190			
HY10W-75/250	75	66	60	127	288	250	213			
HY10W-75/223	75	66	60	127	256	223	190			
HY10W-75/230	75	66	60	127	265	230	196	600	100	50
HY10W-90/224	90	66	72.5	130	258	224	190			
HY10W-90/232	90	66	72.5	130	266	232	198			
HY10W-90/235	90	66	72.5	130	270	235	201			
HY5W-100/260	100	110	78	145	291	260	221	400	65	50
HY5W-102/266	102	110	79.6	148	297	266	226			
HY5W-108/281	108	110	84	157	315	281	239			
HY10W-100/260	100	110	78	145	291	260	221			
HY10W-102/266	102	110	79.6	148	297	266	226	600	100	50
HY10W-108/281	108	110	84	157	315	281	239			
HY10W-200/520	200	220	156	290	582	520	442			
HY10W-204/532	204	220	159	296	594	532	452			
HY10W-216/562	216	220	168.5	314	630	562	478	600	100	60

PORCELAIN HOUSED METAL-OXIDE SURGE ARRESTER WITH GAPS(35-110KV)



Y5W-35KV
Y10W-35KV



Y5W-35KV
Y10W-35KV



Y5W-66KV
Y10W-66KV



Y5W-110KV
Y10W-110KV

Type	Rated voltage of arrester KV	Nominal voltage of system (virtual value) KV	Continuous operating voltage (virtual value) KV	Reference voltage not less than D.C (U1ma) KV	Max residual voltage(peak)			2000 s rectangular impulse current (peak value) A	4/10s impulse current (peak value) KA	The max. leakage current of 0.75DC reference voltageA
					Steep current impulse KV	Lightning impulse current KV	Switching current impulse KV			
Y5WZ-42 /134W	42	35	23	73	154	134	114	150	65	50
Y5WZ-51 /134W	51	35	40.8	73	154	134	114			
Y5WZ-52.7 /134W	52.7	35	40.8	73	154	134	114			
Y5WZ-54 /134W	54	35	41	73	154	134	114			
Y5W-75/215	75	66	60	123	248	215	183	400	65	50
Y5W-90/224	90	66	72.5	130	258	224	190			
Y10W-75/250	75	66	60	127	288	250	213	600	100	50
Y10W-75/223	75	66	60	127	256	223	190			
Y10W-75/230	75	66	60	127	265	230	196			
Y10W-90/224	90	66	72.5	130	258	224	190			
Y10W-90/232	90	66	72.5	130	266	232	198			
Y10W-90/235	90	66	72.5	130	270	235	201			
Y5W-100/260	100	110	78	145	291	260	221	400	65	50
Y5W-102/266	102	110	79.6	148	297	266	226			
Y5W-108/281	108	110	84	157	315	281	239			
Y10W-100/260	100	110	78	145	291	260	221	600	100	50
Y10W-102/266	102	110	79.6	148	297	266	226			
Y10W-108/281	108	110	84	157	315	281	239			

COMPOSITE INSULATOR SERIES

PRODUCT INTRODUCTION

- FPQ pin composite insulator for powerlines
- FXBW Rod suspension composite insulators
- FS cross-arm composite insulator
- FZS Rod post composite insulator

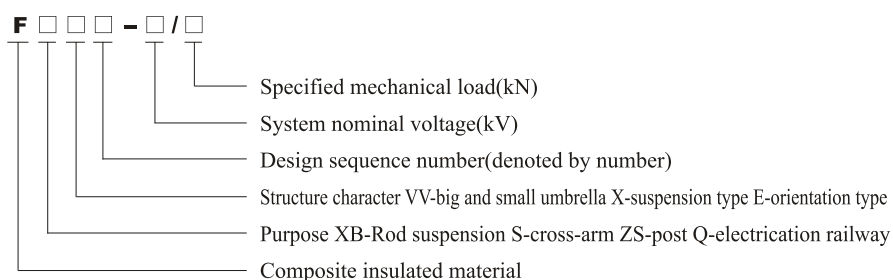
PRODUCT STRUCTURE

The series products are composed of fiberglass epoxy resin lead out pole, silicon-rubber skirt and hardware. Adopted the whole liquid-compression technique in the silicon rubber skirt, the insulator solves the interface electrical breakdown, which is the key problem to the reliability of the composite insulator. With special colloid installation and compression joint technique in the connection of the fiberglass epoxy resin lead-out pole and the hardware, the insulator has the advantages of strong intensity, beautiful figure, small volume, and light weight. The zinc plated hardware, which can be interchanged with porcelain insulator, can protect against rust. The product has reliable colloid installation and compression joint structure, no damage to core pole and can greatly exert its mechanical intensity.

PRODUCT PERFORMANCE

1. Excellent electrical performance, strong mechanical intensity, the extension intensity of fiberglass epoxy resin lead-out pole can be 2 times higher than general steel, and about 10 fold to porcelain material, which can effectively increase the reliability of safeoperation.
2. Good resistance to rust. strong anti-defilement capacity, the flashover voltage is 1.6-2 times to the porcelain insulator with same creepage distance, not require clean, can be safely operated in heavy rustiness zone.
3. Small volume, light weight(only 1/6-1/19 of the porcelain insulator with same voltage grade), flexible structure, easy for transportation and installation.
4. The silicon rubber skirt has good hydrophobicity and the whole structure can protect against damp, not require the monitor of preventive performance insulation, not require clean and reduce daily maintenance.
5. Good seamed performance, strong resistance to electrical erosion, withstand creepage tracing of skirt material can reach TMA4.5 degree the product, have excellent resistance to erosion, resistance to low temperature and can be applicable for the zone with the temperature from -40 to+50.
6. Strong resistance to impact and shock, good resistance to brittleness and creep properties, hard to crash, bend, and wrest, can be interchanged with porcelain and glass insulator.

TYPE EXPLANATION

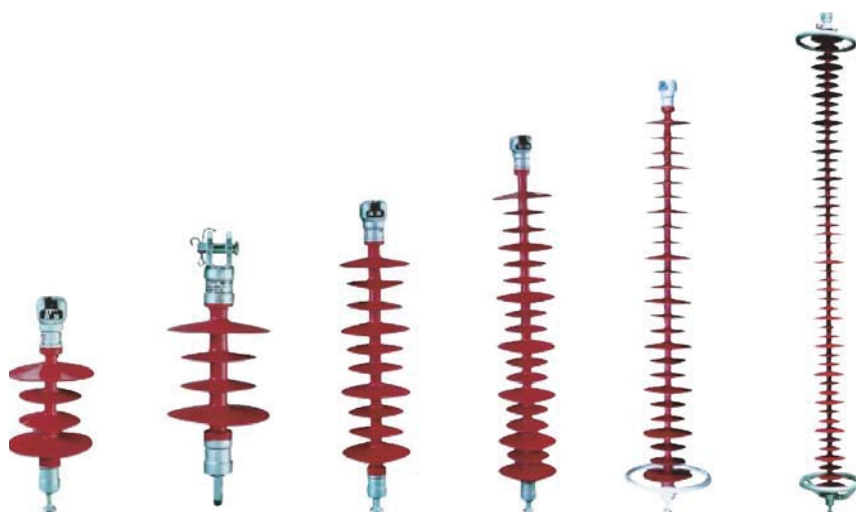




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COMPOSITE INSULATOR SERIES

COMPOSITE INSULATOR SERIES



FXBW4-10/70 FXBW4-10/70C FXBW4-35/70 FXBW4-66/70 FXBW4-110/70 FXBW4-220/100
 FXBW4-10/100 FXBW4-10/100C FXBW4-35/100 FXBW4-66/100 FXBW4-110/100 FXBW4-220/160

SUMMARY

The product is suitably applies to the power lines with high mechanical tensile and long span in grimy zone. It has the features of light weight, small volume, hard to crash.

MAIN ELECTRICAL PARAMETER

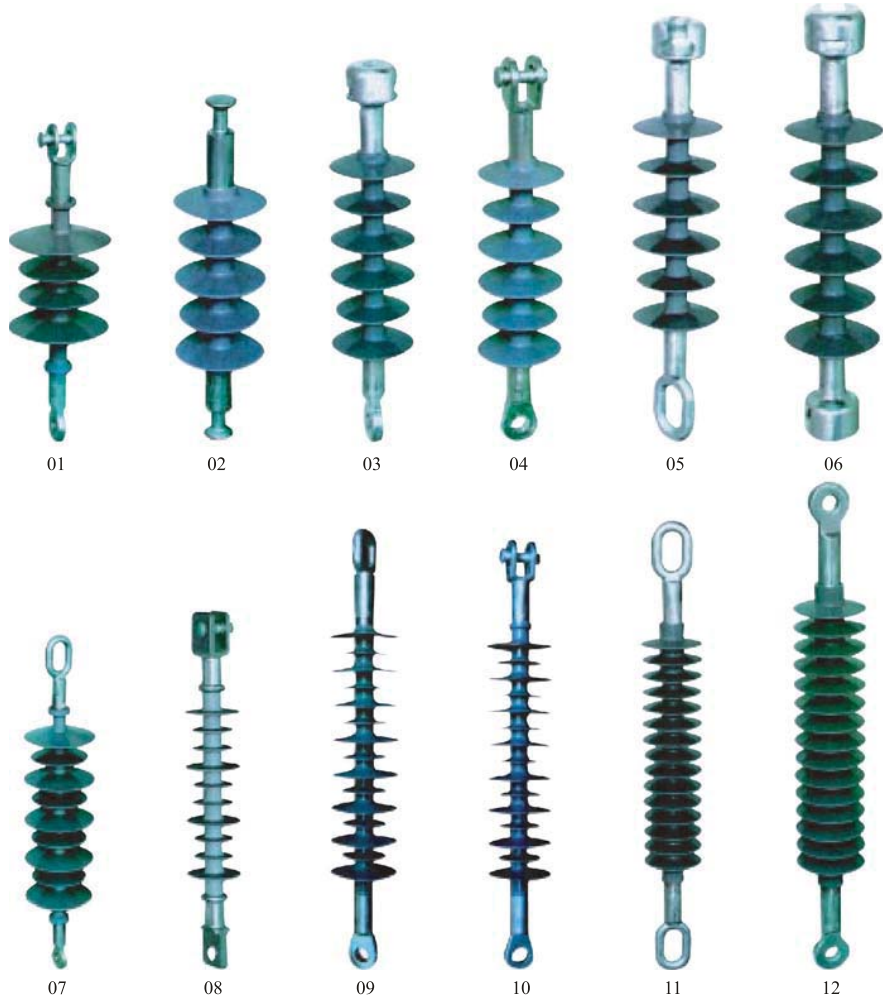
Product designation	Product type	Rated voltage kV	Specified mechanical load kN	Joint structure mark	Section length H(mm)	Min. arcing distance L ₁ (mm)	Min. nominal creepage distance L ₂ (mm)	Lightning impulse withstand voltage (peak value) should exceed kV	Power frequency wet withstand voltage(1 minute) not less than kV	Product weight kg
Bar type hang composite insulator	FXBW4-10/70	10	70	16	380 15	200	400	165	50	2.2
	FXBW4-10/100	10	100	16	380 15	200	400	165	50	2.2
	FXBW4-10/70C	10	70	16	380 15	200	400	165	50	2.2
	FXBW4-10/100C	10	100	16	380 15	200	400	165	50	2.2
	FXBW4-35/70	35	70	16	650 15	450	1015	230	95	3.4
	FXBW4-35/100	35	100	16	650 15	450	1015	230	95	3.4
	FXBW4-66/70	66	70	16	940 15	700	1900	410	185	4.7
	FXBW4-66/100	66	100	16	940 15	700	1900	410	185	4.7
	FXBW4-110/70	110	70	16	1240 15	1000	3150	550	230	6.1
	FXBW4-110/100	110	100	16	1240 15	1000	3150	550	230	6.1
	FXBW4-220/100	220	100	16	2240 30	1900	6300	1000	395	8.8
	FXBW4-220/160	220	160	20	2240 30	1900	6300	1000	385	10.8



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COMPOSITE INSULATOR SERIES

COMPOSITE INSULATOR SERIES



MAIN ELECTRICAL PARAMETER

Product type	Rated voltage kV	Specified mechanical load kN	Section length H(mm)	Arcing distance L.(mm)	Min. creepage distance Lc.mm	Diameter of shed D.(mm)	Lightning impulse withstand voltage (peak) (kV)	P.F.wet withstand voltage (virtual value) (kV)
FXBW-12/70	12	70	390	180	460	98/88	105	42
FXBW-15/70	15	70	445	225	620	98/88	105	42
FXBW-24/70	24	70	450	235	635	148/118	150	42
FXBW-28/70	28	70	560	380	1250	88	230	95
FXBW-33/70	33	70	560	380	1130	92/62	230	95
FXB-36/70	36	70	580	380	1250	88	230	95
FXBW-36/70	36	70	650	450	1320	148/118	230	95

GW1-12 OUTDOOR HIGH VOLTAGE ISOLATING SWITCH

GENERALS

GW1-7.2, 12/200,400,600 outdoor high voltage isolating switch is applied to outdoor circuitry of high voltage switchgear, it can make disconnection and change over circuit when with voltage but no load in the circuit .



ENVIRONMENTAL SERVICE CONDITION

1. AC50 (60)Hz outdoor switchgear
2. Elevation: 1300m and below
3. Ambient air temperature: -40℃ — +40℃
4. Place without conductive dust, corrosive gas, water vapor.
5. Place without fire and explosive danger.
6. Place without regular severe vibration

TECHNICAL PARAMETERS

Type	Rated voltage (kV)	Rated current (A)	Stability degree of short circuit current(kA)			Weight (kg)
			Utmost through current		Thermal stable current in 10 seconds (virtual value)	
			Amplitude value	Virtual value		
GW1-7.2/200	7.2	200	15	9	5	12
GW1-7.2/400	7.2	400	25	15	10	12
GW1-12/200	12	200	15	9	5	20
GW1-12/400	12	400	52	16	10	20
GW1-12/600	12	600	35	21	14	21

STRUCTURAL FEATURE

1. GW1-12 outdoor high voltage isolating switch is 3 phases apparatus comprised of 3 single pole isolating switches. Each single pole isolating switch has same components such as brace of base and operational insulator's front and back fixed contact, switch blade, angle of arcing.

A: base: the base is made of armor plate, and the shaft with draw arm crosses its central section. Holes broached on the base are to fix post insulator, mount earthing bolt and fix each single pole isolating switch. The trench hole on top is set for draw arm

B: brace and operational insulator is adopted ZPA-6 type (7.2KV) and ZPA-10 type (12KV) pin insulator, its minimum bending resistance and rupturing load is 375 and 500Kg Function of middle operational insulator is as draw rod, its top and bottom fixed by collets, the top connect to switch blade and the bottom connect to draw arm

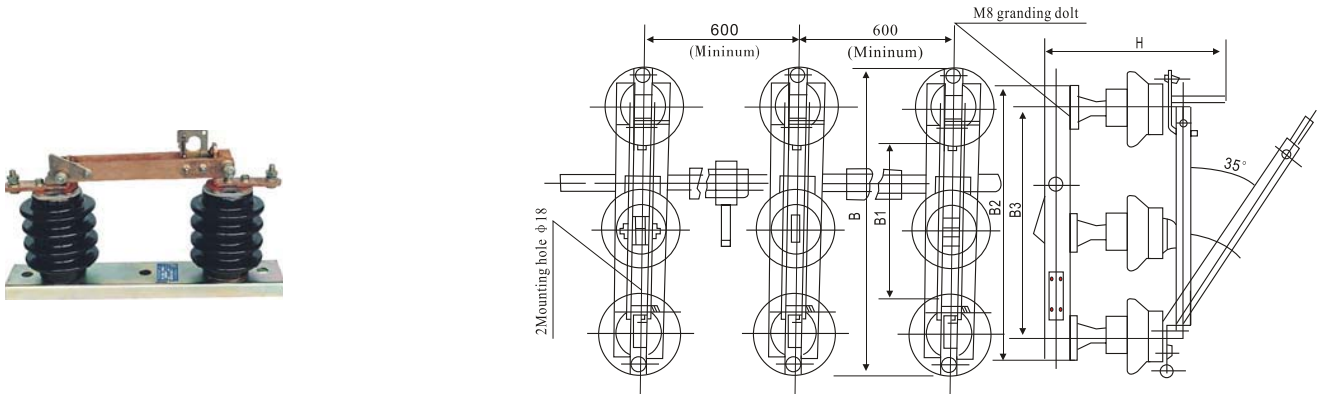
C: front and back fixed contact: blade adapter and blade tongue is made of red copper, which is fixed above the post insulator, and both sides of the top of curving sections is reliably connected to the switch blade

D: switch blade: 400A and 600A type and made of two pieces rectangular red copper plate, and 200A type is made of one piece of red copper plate and steel plate galvanized. The both side of switch blade set with helical springs in order to adjust connection pressure

F: angle of arcing: made by two pieces of $\Phi 5$ stylus, the fixed mounting on blade tongue and the moving mounting on blade itself.

GW1-12 OUTDOOR HIGH VOLTAGE ISOLATING SWITCH

THE CONTOUR AND INSTALLING DIMENSION

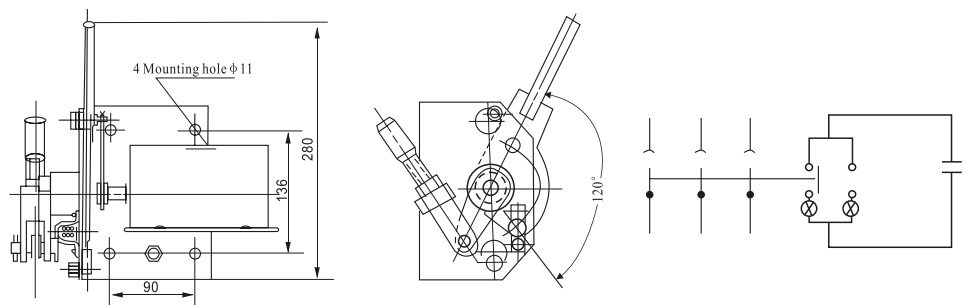


Figuration drauing of GW1-7.2、12/200.400.600 shtyle isolating switch

Type	H	B	B ₁	B ₂	B ₃
	GW1-7.2/200	328	580	280	500
GW1-7.2/400	328	580	280	500	420
GW1-12/200	370	670	370	620	510
GW1-12/400	370	670	370	620	510
GW1-12/600	370	670	370	620	510

2. GW1-7.2, 12/200,400,600 outdoor high voltage isolating switch adopts CS8-1 manual operation mechanism. The F1 auxiliary switch fixed on splint of mechanism, and its moving arm connect to dowel of mechanism handle. The open angle of auxiliary switch is same as handle opened.

The auxiliary switch normally functioned as signal indication and also can be electrical interlocked if required.



CS8-1 Figuration drawing of CS8-1 hand power operation mechanism

Signal conneting diagram of auxiliary switch



INSULATOR



People Electric
Appliance serves for people.



Rohs

CB



ISO9001

ISO14001

OHSAS18001



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PORCELAIN INSULATOR

PIN TYPE INSULATOR

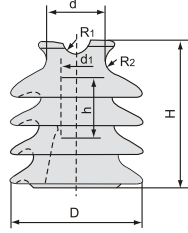


Fig 1

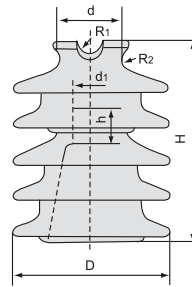


Fig 2

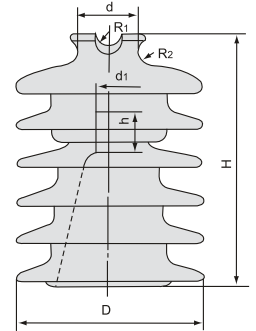


Fig 3

MAIN DIMENSIONS AND STANDARD PARTICULARS

Cat.No		A1005	A1006	A1007	
Fig		1	2	3	
Class BS		Pw-11-Y	Pw-22-Y	Pw-33-Y	
Main Dimensions (mm)	H	185	255	320	
	h	52.63	52.63	52.63	
	D	170	205	240	
	d	76	76	76	
	d1	27.78	27.78	27.78	
	R1	16	16	16	
	R2	16	16	16	
Nominal Voltage (kV)		15	22	33	
Creepage Distance (mm)		432	673	851	
Power-frequency puncture voltage (kV)		150	200	210	
Minimum Flashover Voltage	50% Impulse positive		150	190	210
	Power-frequency	Dry (kV)	100	125	140
		Wet (kV)	65	95	110
Withstand Voltage	One minute power-frequency	Dry (kV)	90	110	125
		Wet (kV)	60	90	100
	Impulse (kV)		140	180	200
Radio-Influence-Voltage Data	Test Voltage to Ground (kV)		22	30	44
	Maximum RIV at 1000kHz (uV)		12000	16000	25000
Cantilever Failing Load(kN)		11	11	11	
Weight (kg)		5	10	13	



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PORCELAIN INSULATOR

SUSPENSION TYPE INSULATORS (BS)

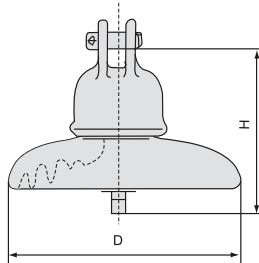


Fig 1

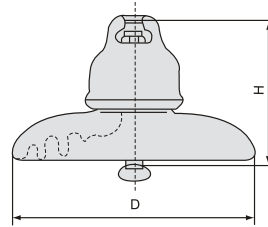


Fig 2

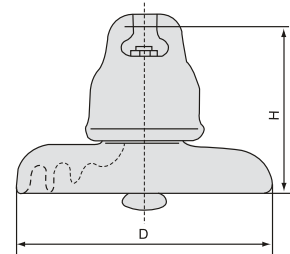


Fig 3

MAIN DIMENSIONS AND STANDARD PARTICULARS

Cat.No			A1008	A1009	A1010	A1011
Fig			2	1	2	2
Class standard			XP-70-A	XP-70C-A	XP-125-A	XP-160-A
Main Dimensions (mm)	D		254	254	254	254
	H		146	146	146	146
Creepage Distance (mm)			292	292	292	317.2
Flashover Voltage	Power-frequency	Dry (kV)	75	75	75	78
		Wet (kV)	45	45	45	45
Electromechanical failing load (kN)			70	70	125	160
Power-frequency puncture Volage(kV)			120	120	120	160
Lighting full-wave impulse withstand voltage (peak) minimum (kV)			100	100	100	110
Weight (kg)			4.5	4.5	-	6.5
Applied standard			AS	AS	AS	AS

Cat.No			A1012	A1013	A1014	A1015
Fig			2	2	2	3
Class standard			XP-70-Y	XP-110-Y	XP-160-Y	XP-190-Y
Main Dimensions (mm)	D		254	254	254	279.4
	H		146	146	146	171
Creepage Distance (mm)			292	292	317.5	368.3
Flashover Voltage	Power-frequency	Dry (kV)	75	78	78	80
		Wet (kV)	45	45	45	47
Electromechanical failing load (kN)			70	110	160	190
Power-frequency puncture Volage(kV)			120	110	110	125
Lighting full-wave impulse withstand voltage (peak) minimum (kV)			100	100	100	110
Weight (kg)			4.5	-	6.5	-
Applied standard			BS	BS	BS	BS



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PORCELAIN INSULATOR

SHACKLE INSULATORS (BS)

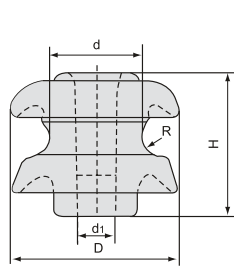


Fig 1

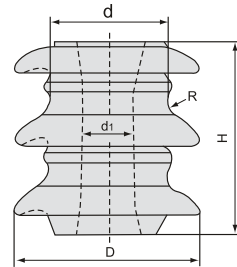


Fig 2

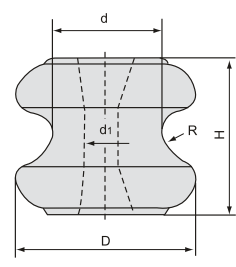


Fig 3

MAIN DIMENSIONS AND STANDARD PARTICULARS

Cat.No	A1016	A1017	A1018	A1019	A1020	A1021	
Fig	2	1	1	3	3	3	
Class BS	ED-2(C)	ED-2(B)	ED-2(B)1	1617	1618-1	1618-2	
Main Dimensions (mm)	H	80	76	76	65	75	
	D	80	89	89	76	89	
	d	50	48	48	46	55	
	d1	22	21	17.5	17.6	17	
	R	6	10	10	9	12.5	
Mechanical failing load (kN)		13	12	12	9	10	
Minimum flash-over voltage	Power-frequency	Dry (kV)	25	25	25	20	20
		Wet (kV)	25	12	12	9	9
Weight (kg)		0.50	0.50	0.50	0.4	-	

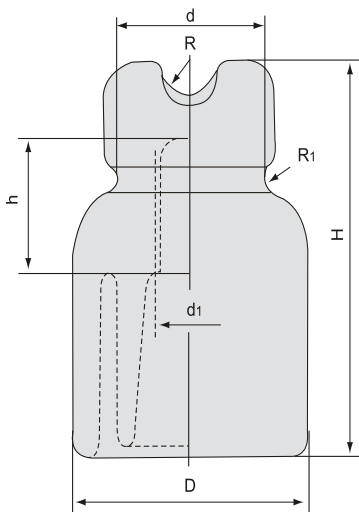


Fig 1

TELEGRAPH INSULATORS (VDE8020/ZS)

MAIN DIMENSIONS AND STANDARD PARTICULARS

Cat.No	A1022	A1023	A1024
Fig	1	1	1
Class VDE	RM-1	RM-2	RM-3
Main Dimensions (mm)	H	140	100
	h	50	32
	D	86	70
	d	52	44
	d 1	22.5	18.5
	R	12	8.5
	R 1	4	3.5
Insulation resistance (M)		50000	40000
Weight (kg)		1.1	0.5

SPINDLES (FOR USE WITH PIN TYPE INSULATORS)(BS)

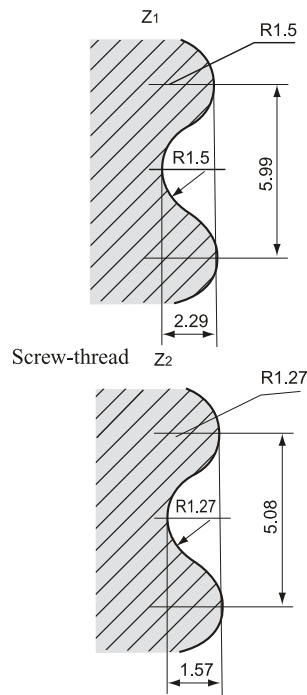


Fig 1

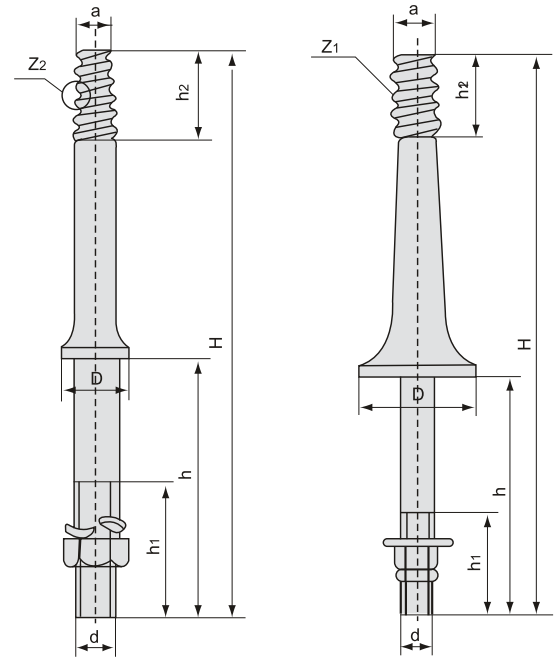


Fig 2

MAIN DIMENSIONS AND STANDARD PARTICULARS

Cat.No		A1025	A1026	A1027	A1028	A1029
Fig		1	1	1	2	2
Class BG		BS Small steel			BS large steel	
Main Dimensions (mm)	H	305	352	215	261	369
	D	38	41	38	60	51
	h	140	127	50	46	140
	h1	74	80	44	41	78
	h2	44.45	44.45	44.45	47	47
	a	18.29	18.29	18.29	27.78	27.78
	d	20	22	20	22	22
Mechanical strength (kN)		5	5	5	10	10
Weight (kg)		1	1.2	0.75	1.5	2



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PORCELAIN INSULATOR

PIN TYPE INSULATORS (DIN)

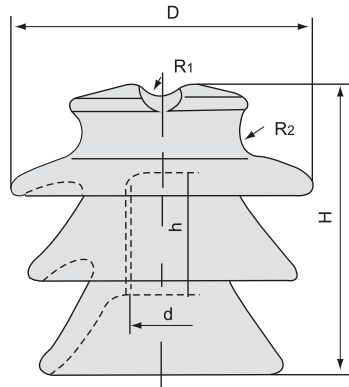


Fig 1

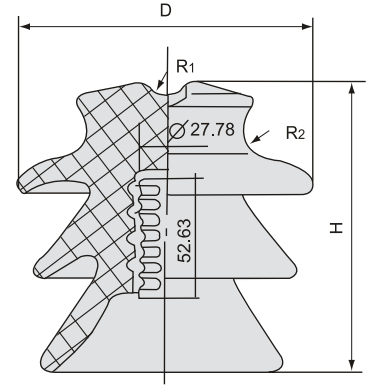


Fig 2

MAIN DIMENSIONS AND STANDARD PARTICULARS

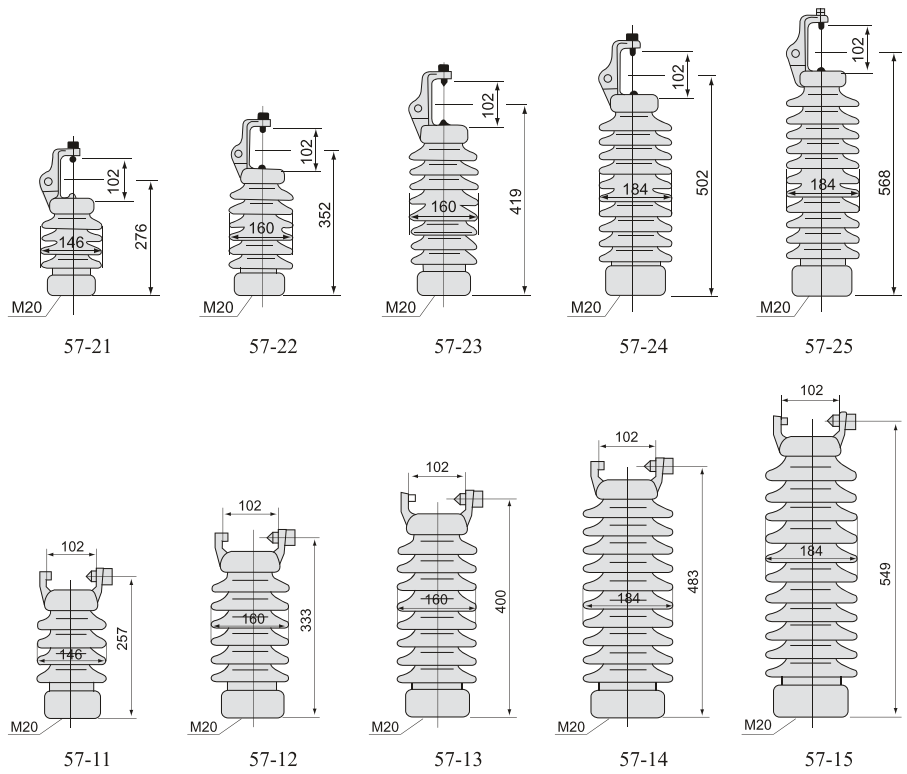
Cat.No		A1030	A1031	A1032	A1033	
Fig		1	1	1	2	
Class DIN		st-10/J	st-15/J	st-20/J	st-20-D	
Main Dimensions (mm)	H	130	150	185	185	
	h	55	60	65	65	
	D	135	150	175	175	
	d	31	31	35	35	
	R1	10	10	10	10	
	R2	12.5	12.5	12.5	12.5	
Nominal Voltage (kV)		10	15	20	20	
Creepage Distance (mm)		240	270	340	340	
Power-frequency puncture voltage (kV)		110	120	140	140	
Electronical failing load (kN)		12	12	14.7	14.7	
Flashover (min)	Power-frequency voltage	Dry (kV)	70	75	90	80
		Wet (kV)	42	53	65	50
	50% critical impulse	100	110	130	130	
Weight (kg)		1.5	2.7	3.4	3.8	



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PORCELAIN INSULATOR

POST INSULATORS (ANSI)



MAIN DIMENSIONS AND STANDARD PARTICULARS

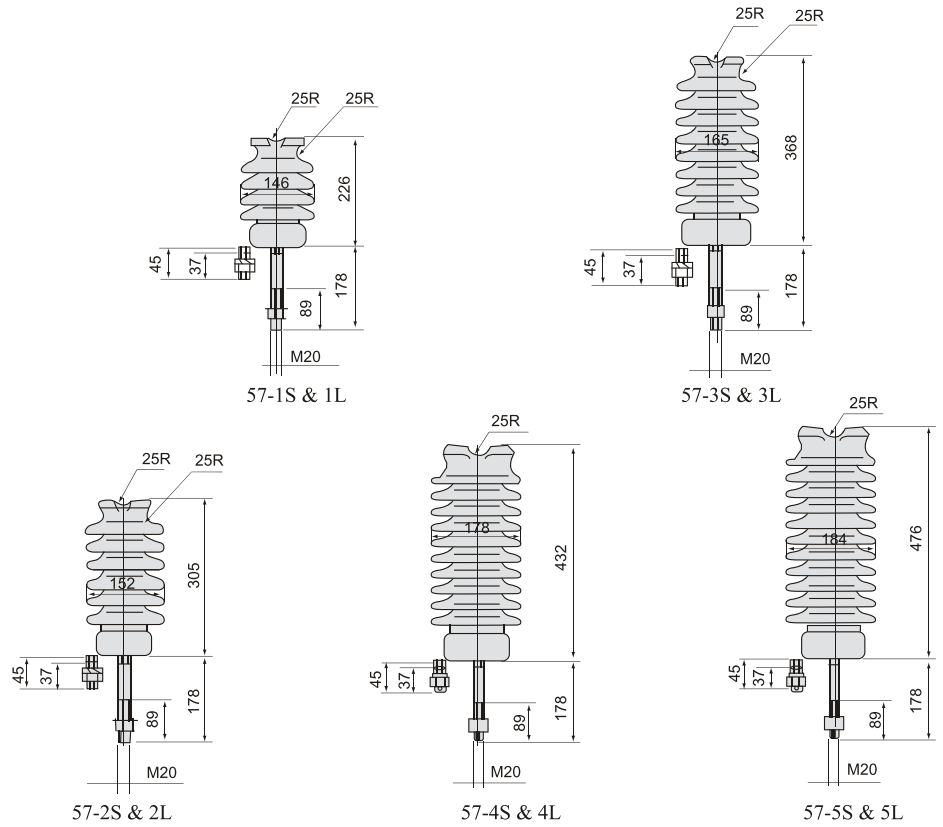
Cat.No.	A1034	A1035	A1036	A1037	A1038	A1039	A1040	A1041	A1042	A1043
ANSI Class	57-21	57-22	57-23	57-24	57-25	57-11	57-12	57-13	57-14	57-15
Creepage distance (mm)	356	559	737	1015	1145	356	559	737	1015	1145
Dry arcing distance (mm)	165	241	311	368	438	165	241	311	368	438
Cantilever strength (kN)	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Low frequency dry flashover (kV)	80	110	125	150	175	80	110	125	150	175
Low frequency wet flashover (kV)	70	100	115	135	160	60	85	100	125	150
Critical impulse flashover, Pos (kV)	130	180	210	255	290	130	180	210	225	290
Critical impulse flashover, Neg (kV)	155	205	260	340	380	155	205	260	340	380
Test voltage to ground (kV)	15	22	30	44	44	15	22	30	44	44
Maximum RIV at 1000KHz (V)	100	100	200	200	200	100	100	200	200	200
Net weight, approx (kg)	7.5	10.5	12.7	16.8	19.5	6.8	10	11.8	15.9	18.6
Number in standrad package	6	3	3	2	2	6	3	3	2	2



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PORCELAIN INSULATOR

POST INSULATORS(ANSI)



MAIN DIMENSIONS AND STANDARD PARTICULARS

Cat.No.	A1044S A1044L	A1045S A1045L	A1046S A1046L	A1047S A1047L	A1048S A1048L
ANSI Class	57-1S 57-1L	57-2S 57-2L	57-3S 57-3L	57-4S 57-4L	57-5S 57-5L
Creepage distance (mm)	356	559	737	1015	1143
Dry arcing distance (mm)	165	241	311	368	438
Cantilever strength (kN)	12.5	12.5	12.5	12.5	12.5
Low frequency dry flashover (kV)	80	110	125	150	175
Low frequency wet flashover (kV)	60	85	100	125	150
Critical impulse flashover, Pos (kV)	30	180	210	255	290
Critical impulse flashover, Neg (kV)	155	205	260	340	380
Test voltage to ground (kV)	15	22	30	44	44
Maximum RIV at 1000KHz (V) 1000KHz	100	100	200	200	200
Net weight, approx (kg)	5.0	9.5	11	16	18
Number in standrad package	6	3	3	2	2



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PORCELAIN INSULATOR

STRAIN INSULATORS FOR LINES (ANSI)

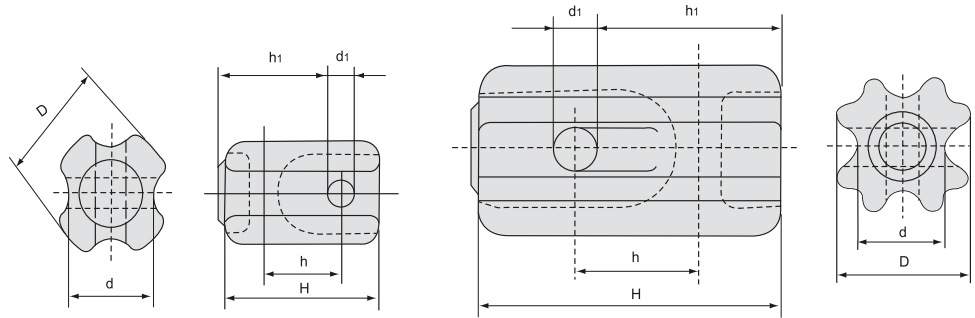


Fig 1

Fig 2

MAIN DIMENSIONS AND STANDARD PARTICULARS

Cat.No.		A1049	A1050	A1051	A1052	
Fig		1	1	1	2	
Class ANSI		54-1	54-2	54-3	54-4	
Main Dimensions (mm)	H	88	108	140	171	
	h	44	57	79	69	
	h1	64	76	103	114	
	D	64	73	86	89	
	d	44	54	60	60	
	d1	16	22	25	25	
Mechanical failing load (kV)		44	53	89	89	
Creepage Distance (mm)		41	47	57	76	
Flashover voltage	Power-frequency	Dry (kV)	25	30	35	40
		Wet (kV)	12	15	18	23
Weight (kg)		0.43	0.63	1.2	2	



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SPOOL INSULATORS (ANSI)

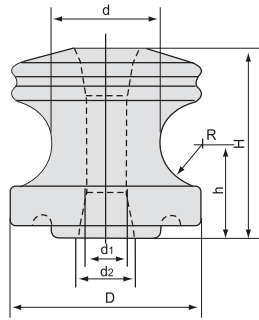


Fig 1

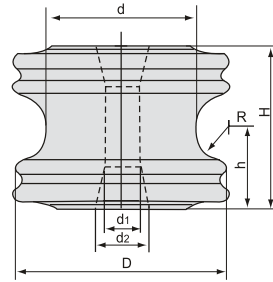


Fig 2

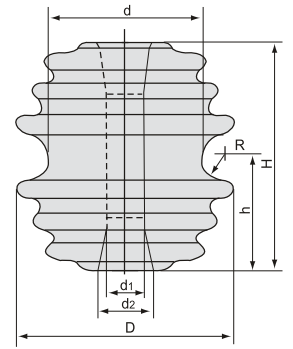


Fig 3

MAIN DIMENSIONS AND STANDARD PARTICULARS

Cat.No.		A1053	A1054	A1055	A1056	A1057		
Fig		2	1	2	2	3		
Class ANSI		53-1	53-2	53-3	53-4	53-5		
Main Dimensions (mm)	H	54	76	81	76	105		
	h	27	38	40.5	38	52.5		
	D	57	79	76	105	102		
	d	45	45	45	73	73		
	d1	18	18	18	18	18		
	d2	22	24	24	24	24		
	R	11	18	11	16	11		
Mechanical failing load (kV)		907	1360	1814	2041	2722		
Minimum flas-over voltage	Power-frequency	Dry (kV)		20	25	25	25	25
		Wet (kV)	Upright	8	12	12	12	18
	Level		10	15	15	15	25	
	Weight (kg)		0.22	0.55	0.60	1.15	1.20	



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PORCELAIN INSULATOR

SUSPENSION TYPE INSULATORS (ANSI)

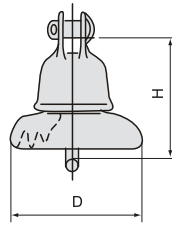


Fig 1

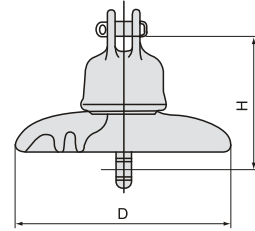


Fig 2

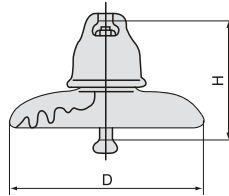


Fig 3

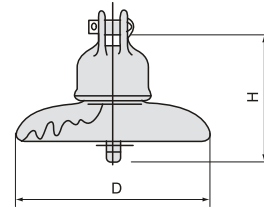


Fig 4

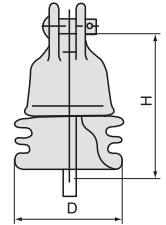


Fig 5

MAIN DIMENSIONS AND STANDARD PARTICULARS

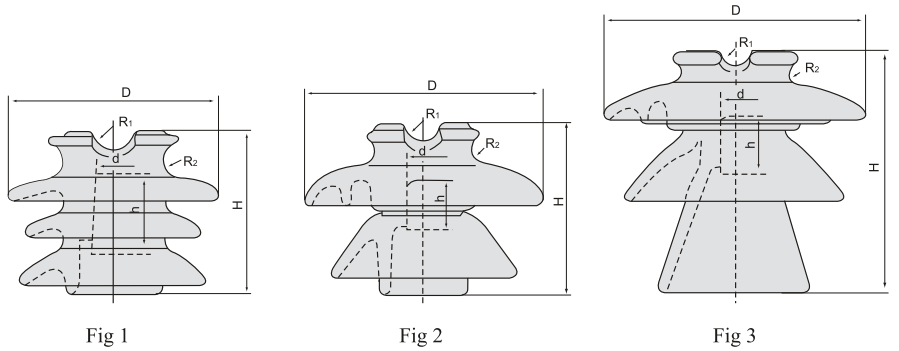
Cat.No.		A1058	A1059	A1060	A1061	A1062	A1063	A1064	A1065	
Fig		1	2	3	4	3	4	5	4	
Class ANSI		52-1	52-2	52-3	52-4	52-5	52-6	52-9	52-10	
Main Dimensions (mm)	D	165	190.5	254	254	254	254	114	279.4	
	H	139.7	146	146	146	146	146	160	165	
Creepage distance (mm)		178	210	292	292	279	279	171	279	
Power-frequency puncture voltage (kV)		80	90	110	110	110	110	80	110	
Average Flashover Voltage	Power-frequency	Dry (kV)	60	65	80	80	80	80	60	80
		Wet (kV)	30	35	50	50	50	50	30	50
	Critical-impulse 15x40s wave	Positive (kV)	100	115	125	125	125	125	90	125
		Negative (kV)	100	115	130	130	130	130	100	130
Radio-influence voltage data	Test voltage to ground (kV)		7.5	7.5	10	10	10	10	7.5	10
	Maximum RIV at 1000kHz(V)		50	50	50	50	50	50	50	50
Electromechanical failing load (kN)		44	67	67	67	111	111	44	160	
Mechanical impact strength (n.m)		5	5.5	5.5	6	7	7	5	10	
Time load test value (kn)		27	44	44	44	67	67	27	107	



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PIN TYPE INSULATORS (ANSI)



MAIN DIMENSIONS AND STANDARD PARTICULARS

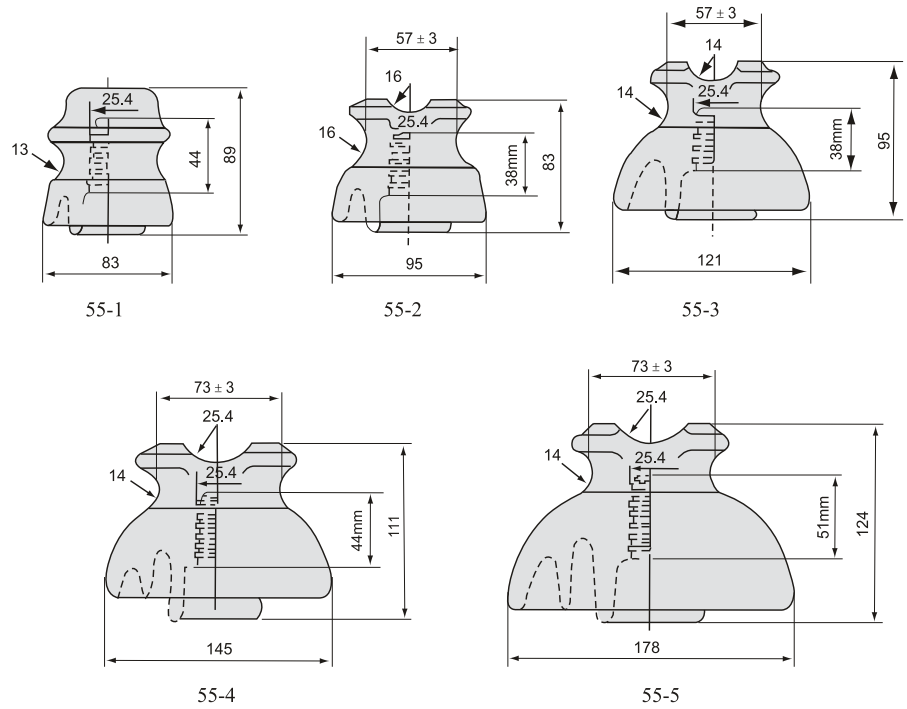
Cat.No.			A1066	A1067	A1068	A1069	A1070
Fig			1	1	2	2	3
Class ANSI			56-1	56-2	56-3	56-4	56-5
Main Dimensions (mm)	H		146	165	191	241	318
	h		50.8	50.8	50.8	50.8	63.5
	D		191	228	267	305	343
	d		34.9	34.9	34.9	34.9	34.9
	d1		19	19	19	19	19
	R2		14	14	14	14	14
Nominal voltage (kV)			23	23	35	46	69
Creepage distance (mm)			330	430	533	685	865
Minimum Flashover Voltage	Power-frequency	Dry (kV)	95	110	125	140	175
		Wet (kV)	60	70	80	95	125
	50% Impulse	Positive (kV)	150	175	200	225	270
		Negative (kV)	190	225	265	310	340
Radio-influence voltage data	Test voltage to ground (kV)		15	22	30	30	44
	Maximum RIV at 1000kHz (kV)		100	100	200	200	200
Low-frequency puncture voltage average (kV)			130	145	165	186	225
Dry arcing distance (mm)			178	210	241.3	285	356
Cantilever Failing Load (kN)			1134	1360	1360	1360	1360
Weight (kg)			3.7	5.3	7	10.8	13.5



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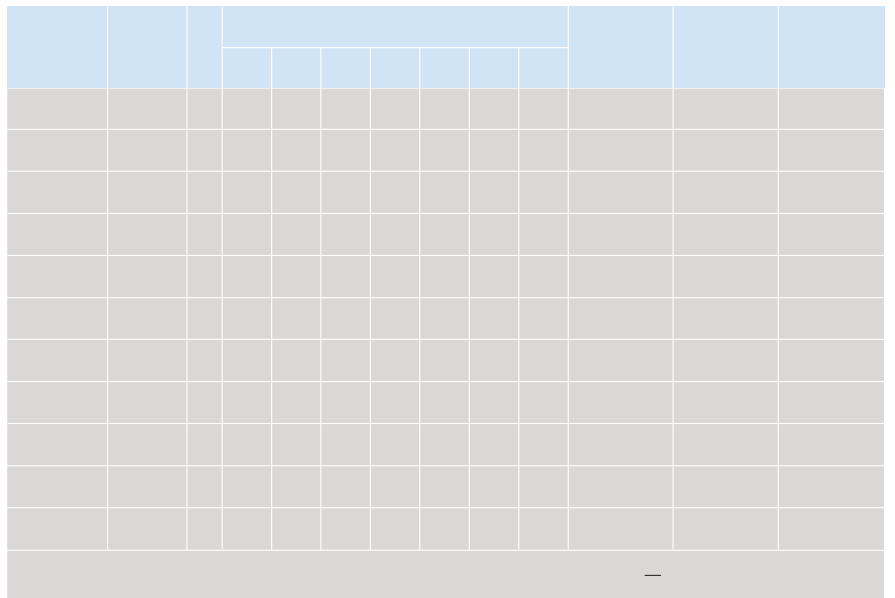
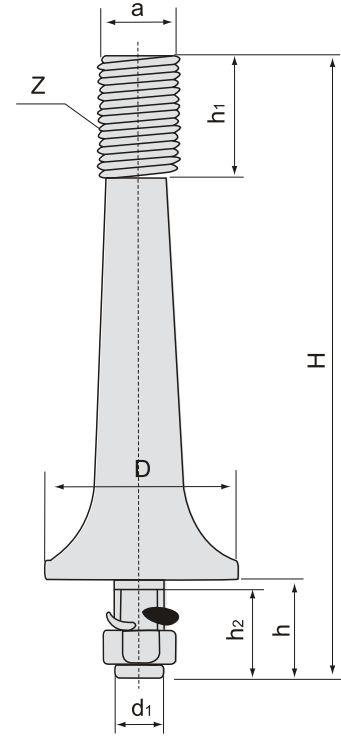
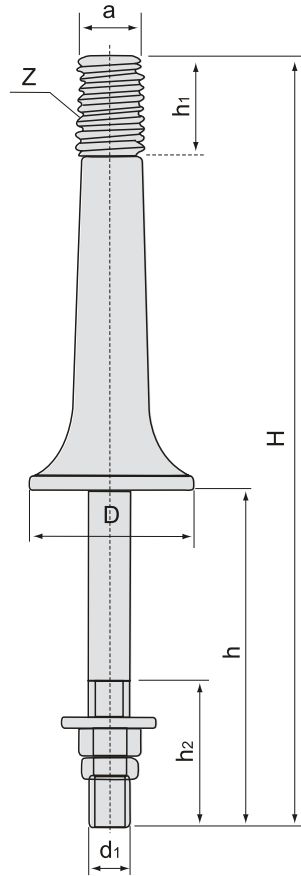
PIN TYPE INSULATORS (ANSI)



MAIN DIMENSIONS AND STANDARD PARTICULARS

Cat.No.	A1071	A1072	A1073	A1074	A1075
Class ANSI	55-1	55-2	55-3	55-4	55-5
Creepage distance (mm)	102	127	178	229	305
Dry arcing distance (mm)	57	86	114	127	159
Cantilever strength (kN)	13	11	11	13	13
Low frequency dry flashover voltage (kV)	35	45	56	65	80
Low frequency wet flashover voltage (kV)	20	25	30	35	45
Critical impulse flashover, Pos (kV)	50	70	90	105	130
Critical impulse flashover, Neg (kV)	70	85	110	130	150
Power-frequency puncture voltage (kV)	50	70	90	95	115
Test voltage to ground (kV)	5	5	10	10	15
Maximum RIV at 1000KHz (V)	50	50	50	50	100
Net weight, Each, Approx (kg)	0.5	0.65	1	1.55	2.75
Number in standrad package	60	40	30	16	12

SPINDLES(FOR USE WITH PIN TYPE INSULATORS) (ANSI)





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PORCELAIN INSULATOR

PIN TYPE INSULATORS (AS)

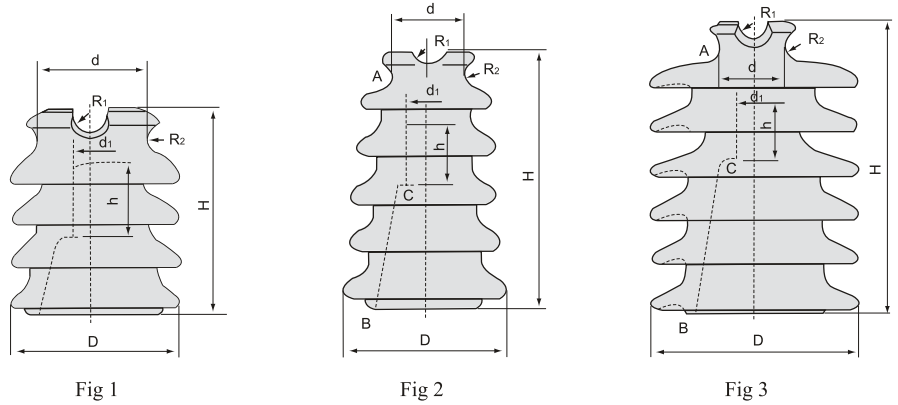


Fig 1

Fig 2

Fig 3

MAIN DIMENSIONS AND STANDARD PARTICULARS

Cat.No.		A1087	A1088	A1089
Fig		1	2	3
Class AS		Pw1-15-A	Pw1-22-A	Pw1-33-A
Main Dimensions (mm)	H	184	240	320
	h	66.5	66.5	66.5
	D	170	165	240
	d	76	76	86
	d1	34.9	34.9	34.9
	R1	16	16	16
	R2	16	16	16
Nominal Voltage/ (kV)		15	22	33
Creepage Distance (mm)	A-B		380	755
	B-C		110	165
	A-C	432	490	920
50% Impulse flashover voltage (kV)		150	160	210
One minute wet withstand voltage (kV)		37	50	90
Power-frequency puncture voltage (kV)		145	160	170
Cantilever Failing Load (kN)		7	11	11
Weight (kg)		5.5	4.2	14.3



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PIN TYPE INSULATORS (AS)

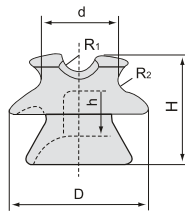


Fig 1

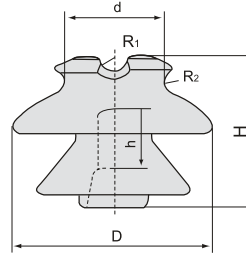


Fig 2

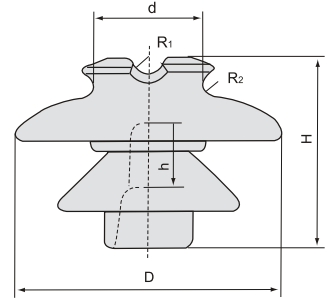


Fig 3

MAIN DIMENSIONS AND STANDARD PARTICULARS

Cat.No.		A1090	A1091	A1092	
Fig		1	2	3	
Class AS		P-11-A	P-22-A	P-33-A	
Main Dimensions (mm)	H	107	168	194	
	h	40	63.5	63.5	
	D	140	228	279	
	d	76	113	113	
	R1	16	16	16	
	R2	13	13	13	
Nominal Voltage (kV)		11	22	33	
Creepage Distance (mm)		180	450	520	
Minimum Flashover Voltage	Power-frequency (r.m.s)	Dry (kV)	60	80	120
		Wet (kV)	32	60	80
	50% Critical Impulse (peak) (kV)		95	150	170
Power-frequency puncture voltage (kV)		95	130	165	
Cantilever Failing Load (kN)		11	11	11	
Weight (kg)		1.30	4.60	8.9	