



## Nanjing Electric HV Bushing Co.,Ltd

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## Nanjing Electric HV Bushing Co.,Ltd



# HUNDRED YEARS BPG, BPG OF THE WORLD



## Catalogue

● Company profile	01	● Self-diagnostic transformer bushing	50
● Company qualification	03	● Intelligent transformer bushing	54
● Product overview	05	● RIP transformer bushing	56
● Main customer	11	● Low voltage heavy current bushing	63
● GFRP transformer bushing	12	● DC Converter bushing	64
● RIF transformer bushing	34		



## Company Profile



Nanjing Electric (Group) Co., Ltd. (Nanjing electro-ceramic factory) is the first HV electro-ceramic factory in the industry history of China and it was established in 1936, and also is the core subsidiary corporation of Baiyun Power Group. At present, it is the biggest production base of tempered glass insulator and the national significant technical equipments development and industrialization base and the core subsidiary of Baiyun Power Group.

In recent years, it has been honored with nationwide engineering industry advanced collective and engineering industry modernization management enterprise, and it has been elected as the top 500 enterprises in Chinese engineering industry and pacesetter of industrial enterprises in China.

The Thunder-Lighting brand trade mark used by the company was registered in 1937, and now it is the famous trademark in Jiangsu Province. Company covers an area 330000 square meters, construction area of 140000 square meters, the registered capital is more than 300 million Yuan, and the total number of employees at present is 1007. Company possesses national laboratory (Nanjing electric testing center) and high voltage insulator engineering technology research center of Jiangsu Province and specially produce electrical product matching power transmission and transformation engineering construction. The market share of main products in the domestic insulator arrester industry takes the leading position. Since the first condenser bushing in China has been trial-produced in 1958 in the company, the solid foundation of condenser bushing production of our company is formed after more than 50 years' production and fabrication experience accumulation. At present, the company has produced hundred thousands of all kinds of HV bushing for power transmission and transformation industry, which occupies about 50% of the domestic total quantity operating at present.

In recent years, with the progress of science and technology, the power systems require that high voltage electrical products should be miniaturization, oil-free, maintenance-free and high-reliability. To satisfy the requirements of product upgrades in the new period, our company explore new materials, new technology of bushing based on the original production technology, and developed the first fiberglass reinforced dry-type capacitor successfully in the world in 2001, and also developed the series products of fiberglass reinforced dry-type bushing which is approved and popularly used by user. To highlight the bushing business, Nanjing Electric HV Bushing Co., Ltd was born in 2012

The corporation inherits the management and fabrication experience of Nanjing Electric (Group)Co.,Ltd., and is dedicated to become international leading innovation-oriented HV bushing solution provider with first rate brand. Our corporation possesses abundant technical, advanced production facilities, complete detection means, swift information exchange and perfect service system. Its mission is to make the electrical power transmission safer, more stable, reliable and high-efficient; its enterprise spirit is do pioneering Work, merging, innovation and excellency; it is dedicated to become the happy homestead where the employee breaks through and creates value, become the enterprise loved and valued by clients, suppliers and all circles in society.







The Company as a high-tech enterprise, possesses multiter patented technologies such as dry-type capacitor core and dry-type HV bushing. Besides, it is fully implementing ISO 9001 quality management system. Series products of GFRP reinforced dry-type HV bushing have already passed the inspection conducted by the authorities. The experts attending meeting organized by China Electricity Council and China Machinery Industry Federation for appraisal of new products draw the same conclusion: structure is original and reasonable, performance achieves domestic leading level. Product obtained second prize of industry science and technology progress and China machinery industry science and technology prize successively, which was listed as China Torch Plan and National Key New Product.

## Company Qualification





# Product Presentation

## Product Overview



**Fiberglass Reinforced Plastic (GFRP) Dry-type Capacitive Bushing**

The major insulation of GFRP Dry-type Capacitive Bushing is fiberglass capacitor core, which is made by solidifying alternately wound and interval arranged insulating layer (made by winding, intersecting and superimposing high-insulation fiberglass immersed in ultra-low-viscosity high-temperature-resistant epoxy resin by microcomputer control winding equipment according to geodesic) and capacitor screen (made of semiconductor adaptive materials) in high temperature. Coupling flange is made of high-strength aluminum alloy, which is cemented with capacitor core as a whole. Creepage extenders are injected and shaped with silicon rubber once on the surface of capacitor core, to be an organic integrity with the capacitor core. This bushing was invented in 2001, which has small volume,

light weight, maintenance-free, high mechanical strength and safety and reliable during operation, and has good reputation by users. The consumption increased year by year, the cumulative operation has amounted to more than hundreds.



**Resin Impregnated Paper ( for short RIP ) capacitor bushing**

The main insulation of RIP Dry Bushing is RIP capacitor core, which adopts insulated paper and aluminum foil that are alternately intertwined on the conducting pipe (rod) and solidified after vacuum dry and immersed epoxy resin in the high temperature. RIP dry-type bushing is sealing assembled by capacitor core connecting coupling flange and porcelain sleeve or composite hollow insulator.

This dry-type and oil-free bushing has been widely used in Europe, America and Japan since its invention in 1960 depend on its incomparable advantages. We has fully brought in talents with many years of manufacturing experience and imported fully automatic manufacturing equipment from Germany,

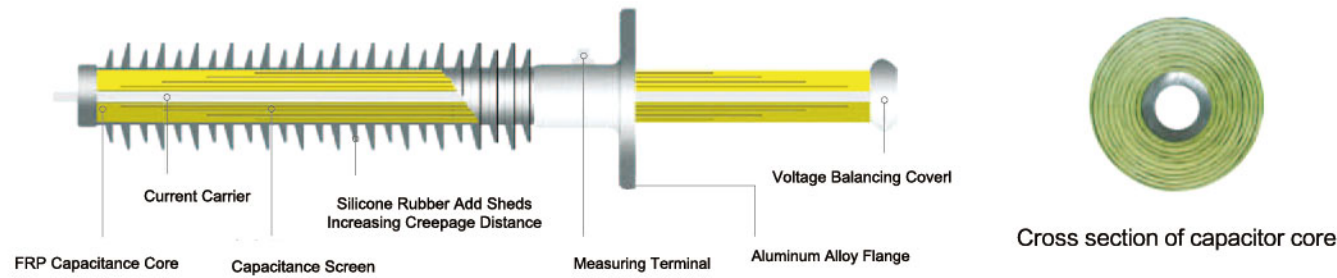
**Vacuum Epoxy Resin Impregnated Fiberglass (RIF) Capacitive Dry-type Bushing**

The major insulation of RIF Capacitor Dry-type Bushing is vacuum epoxy resin adhesive impregnated fiberglass capacitor core, which adopts insulating layer made from superimposing high-insulated fiberglass and capacitor screen made from conductor or semiconductor materials, they are interval twined to meet the design requirement, then solidified in high temperature after immersed epoxy resin mixture under vacuum condition. Vacuum epoxy resin impregnated fiberglass capacitor dry-type bushing consists of vacuum epoxy resin impregnated fiberglass capacitor core, coupling flange, outer-insulated creepage extenders and other accessories. The RIF Capacitor Dry-type Bushing was invented in 2010 depending on our many years manufacturing experiences, which combine the high insulation property of RIP bushing and excellent mechanical property of GFRP dry-type bushing, so it has higher insulated property and more stable operation.



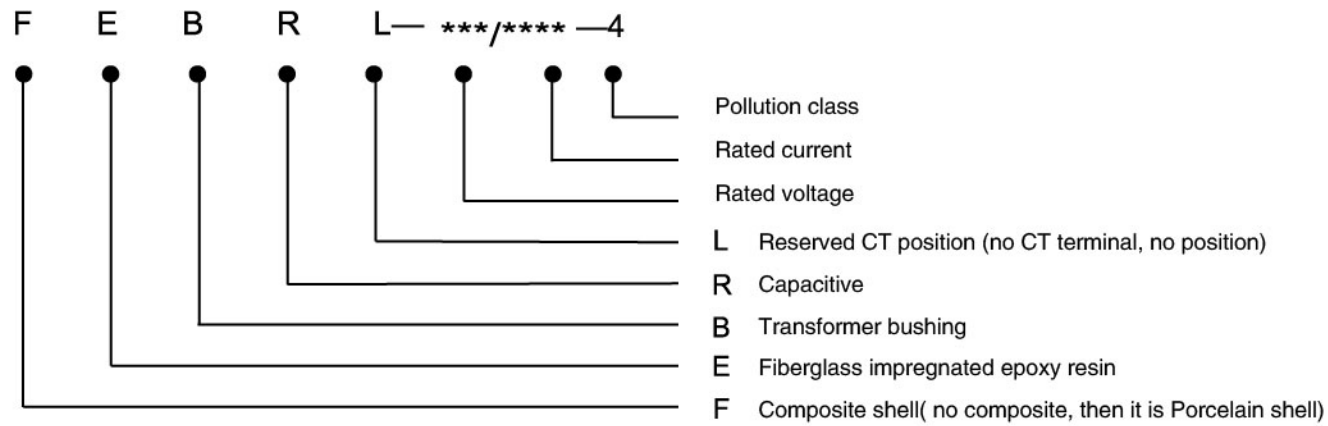


## >>> Bushing structure characteristics

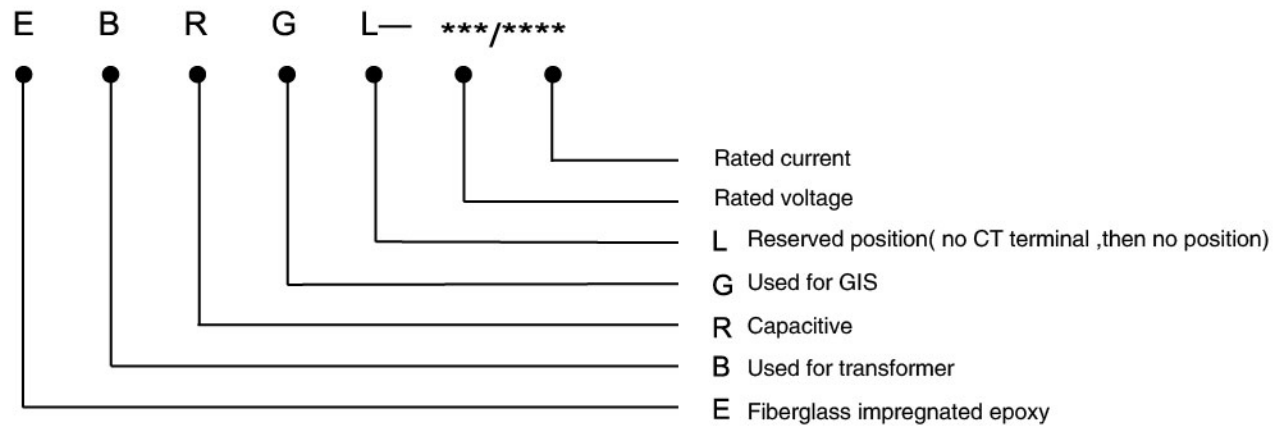


## >>> Demonstration Of The Type

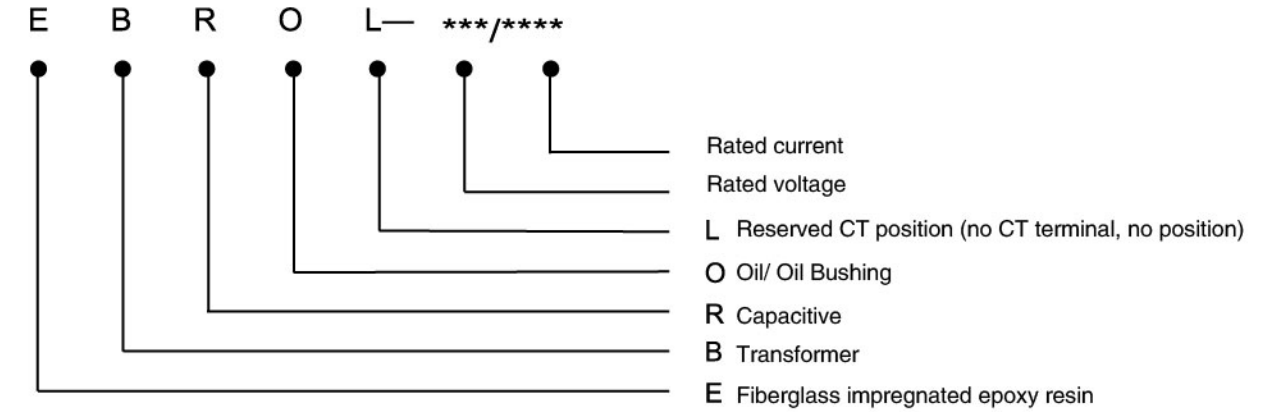
GFRP Dry-Type Transformer Bushing



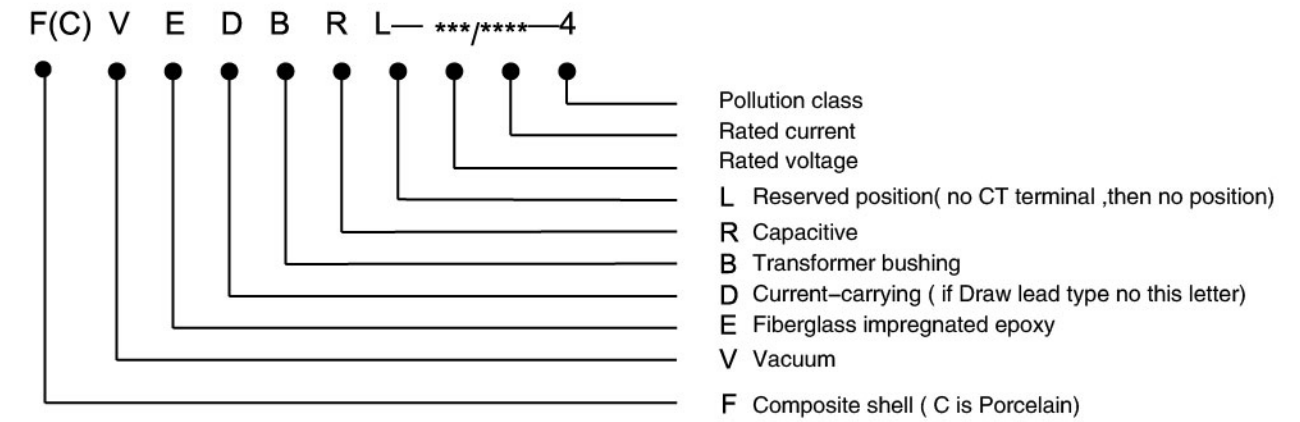
GFRP Dry-Type Capacitive Oil/SF6 Bushing



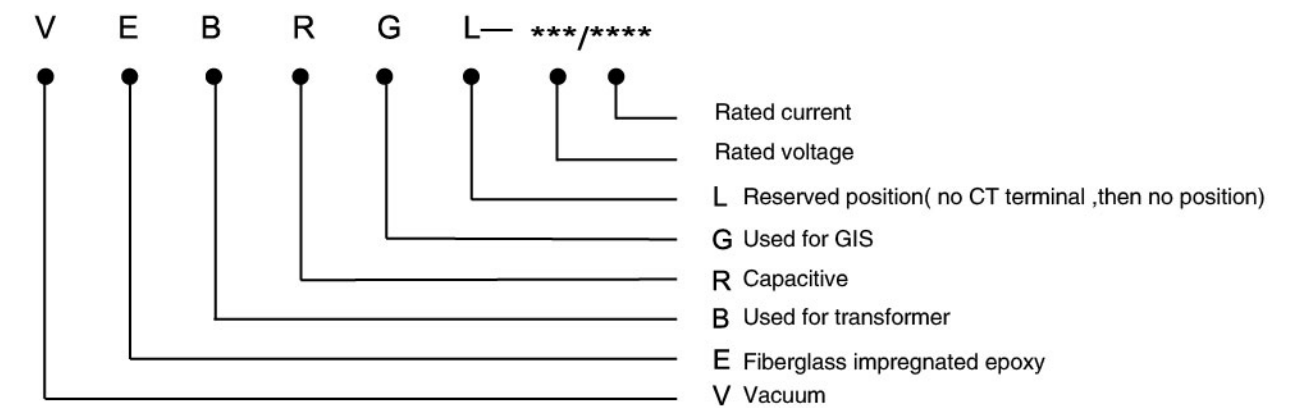
Dry-Type Capacitive Oil/Oil Bushing



RIP Dry-Type Capacitive Transformer Bushing

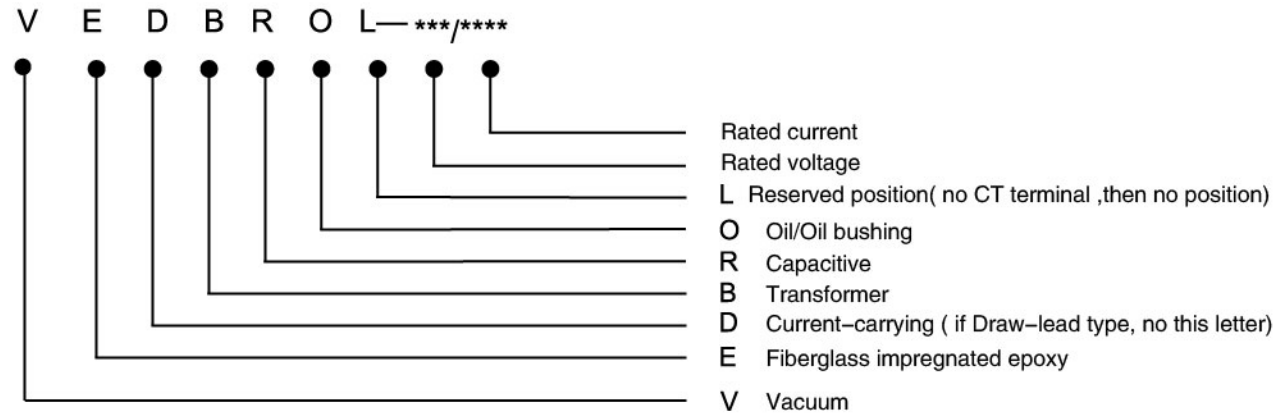


RIF Dry-type Capacitive Oil/SF6 Bushing

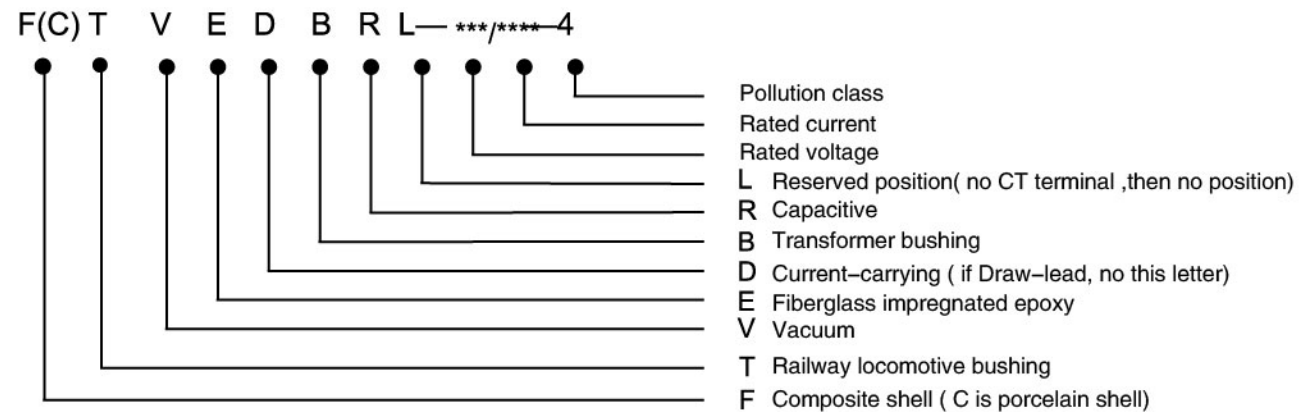




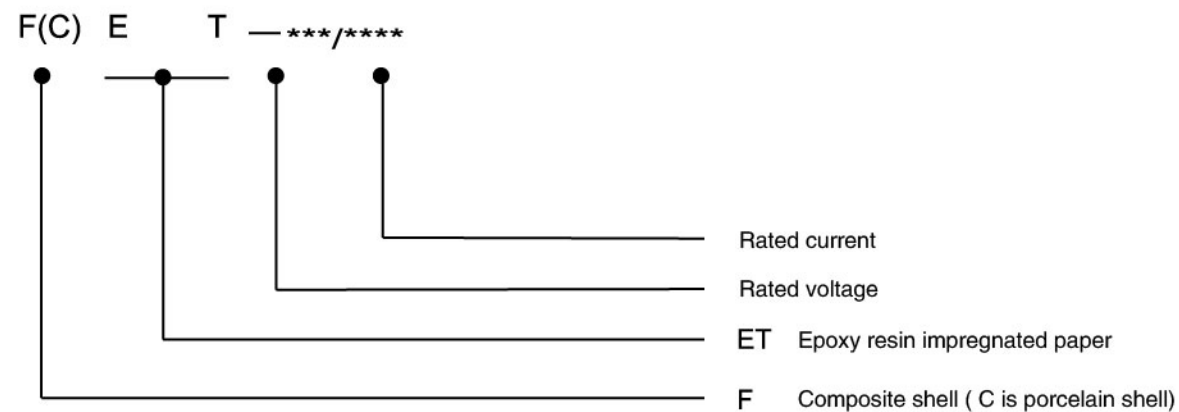
RIP Dry-type Capacitive Oil/Oil Bushing



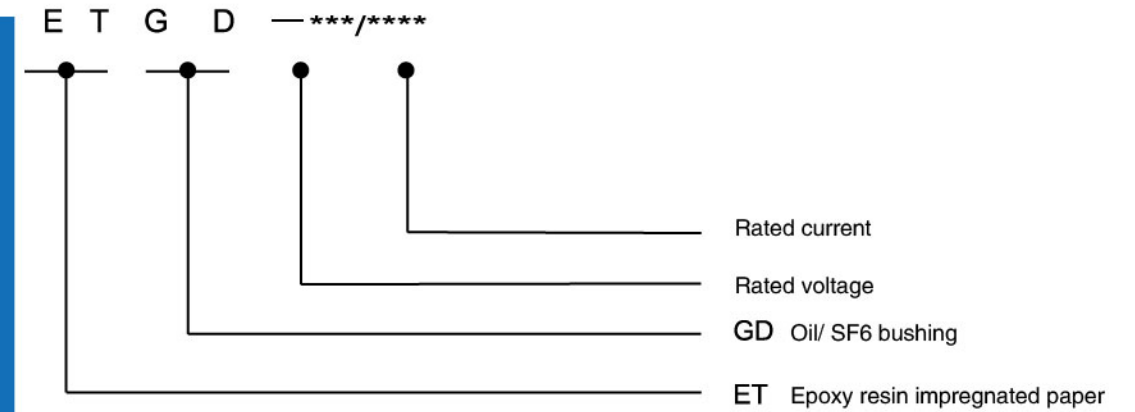
Railway Traction Transformer Bushing



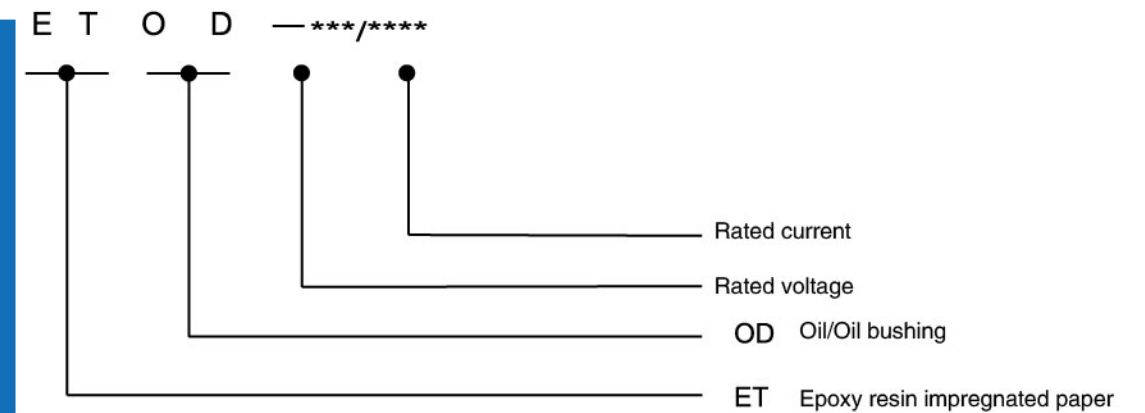
RIP Dry-type Transformer Bushing



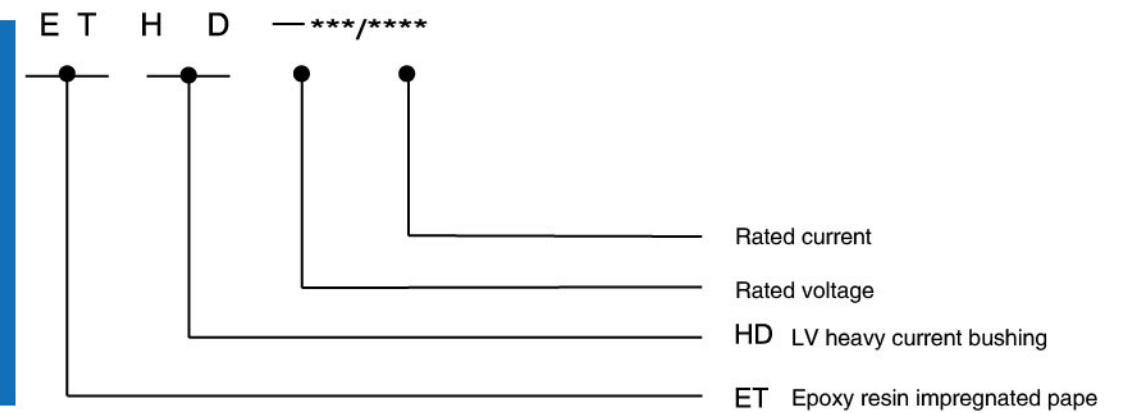
RIP Dry-type Oil/SF6 Bushing



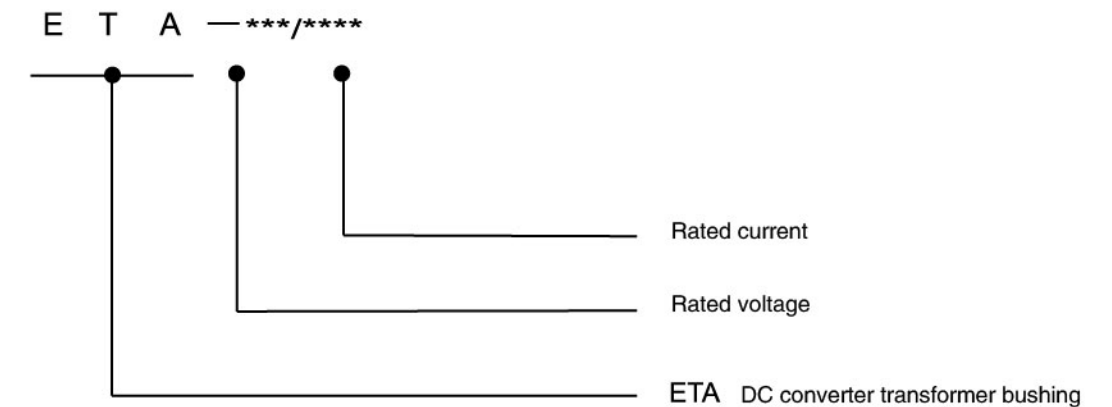
RIP Dry-type Oil/Oil Bushing



RIP Dry-type LV Heavy Current Bushing



DC Converter Transformer Bushing



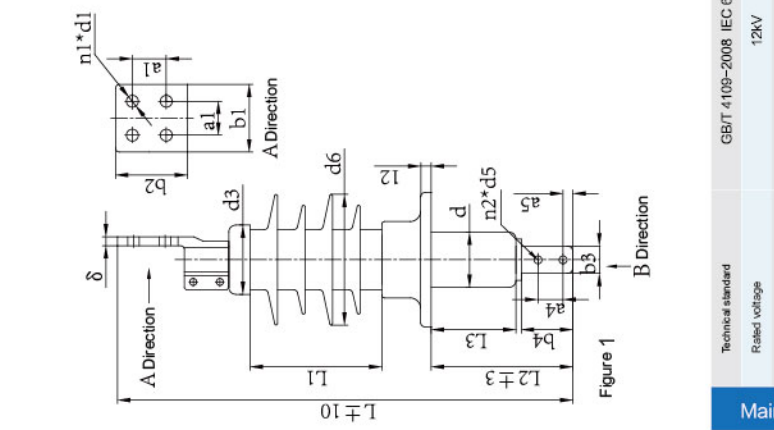
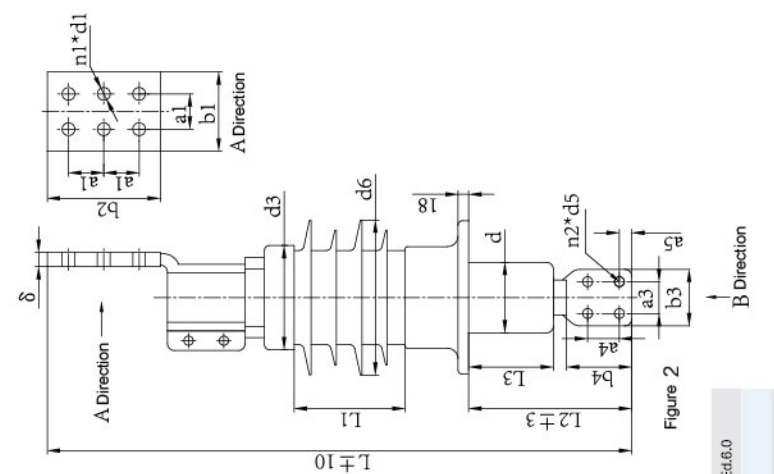
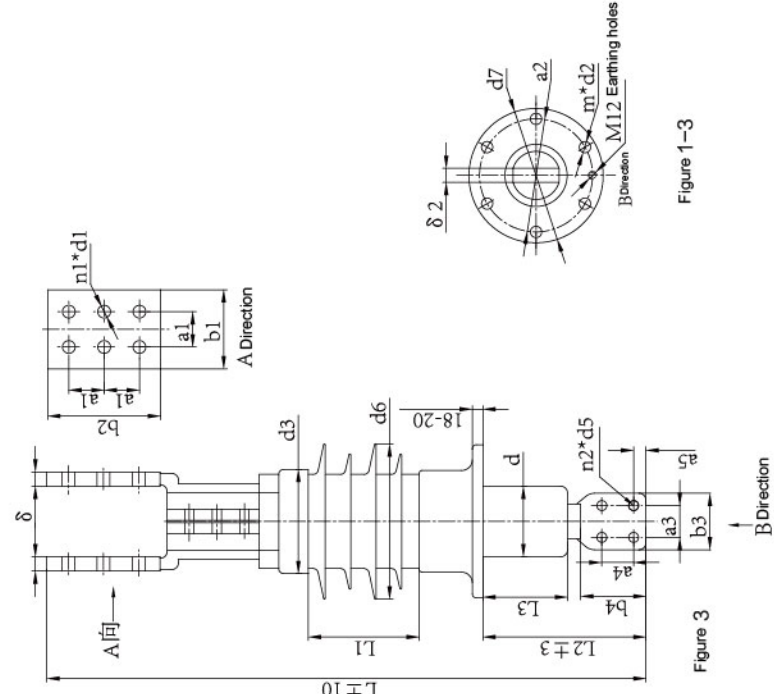
Note: Before the type demonstration, N means self-diagnosed type bushing, Z means intelligent type bushing



# Main customer



## 12kV GFRP Dry-type Composite Transformer Bushing



Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	12kV
Rated current	630-5000A
1 min power frequency dry voltage withstand	30kV
Full-wave impulse withstand voltage of lightning	75kV
Bending test load	1000-3150N
Minimum nominal creepage distance	31mm/kV

Type	Main dimension (mm)	Drawing number	Total length of bushing	Wing terminal		Wing terminal hole		Inner diameter of conductor tube	Balancing voltage ball in product part	Total length of bushing in product part	The length of main body in product part	Flange	Compound external insulation		Lead connection aperture diameter	Head diameter thickness	Panel surface distance	Panel surface thickness	Wing terminal hole distance	Hole number and diameter	Wing terminal hole distance	Hole number and diameter	Weight	Product code						
				Thread pitch	Thread length	Max. number of umbels	Max. distance						S	d8											L1	L2	d	L3	L5	d10
FEB-12/630-4	1	535	535	M6x1	h	n1xd1	a1	b1xd2	δ	d3	11	98	170	470	185	190	160	6x14	145	78	65	40	65	30	15	2x14	20	FFB0106		
FEB-12/1250-4	1	565	565	M8	h	n1xd1	a1	b1xd2	δ	d3	16	98	170	470	185	190	160	6x14	145	78	65	40	65	30	15	2x14	20	FFB0112		
FEB-12/1600-4	1	620	620	M10	h	n1xd1	a1	b1xd2	δ	d3	16	98	170	470	185	190	160	6x14	145	78	65	40	65	30	15	2x14	20	FFB0116		
FEB-12/2000-4	1	630	630	M10	h	n1xd1	a1	b1xd2	δ	d3	16	98	170	470	185	190	160	6x14	145	78	65	40	65	30	15	2x14	20	FFB0120		
FEB-12/2500-4	2	695	695	M12	h	n1xd1	a1	b1xd2	δ	d3	20	123	170	490	219	235	200	6x16	185	102	65	65	80	90	40	45	20	4x14	20	FFB0125
FEB-12/3150-4	2	740	740	M12	h	n1xd1	a1	b1xd2	δ	d3	20	123	170	490	219	235	200	6x16	185	102	65	65	80	90	40	45	20	4x14	20	FFB0131
FEB-12/4000-4	2	780	780	M12	h	n1xd1	a1	b1xd2	δ	d3	20	123	170	490	219	235	200	6x16	185	102	65	65	100	90	50	45	20	4x14	20	FFB0140
FEB-12/5000-4	3	810	810	M12	h	n1xd1	a1	b1xd2	δ	d3	20	123	170	490	219	235	200	6x16	185	102	65	65	100	100	50	45	20	4x14	25	FFB0150

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size



24kV GFRP Dry-type Composite Transformer Bushing

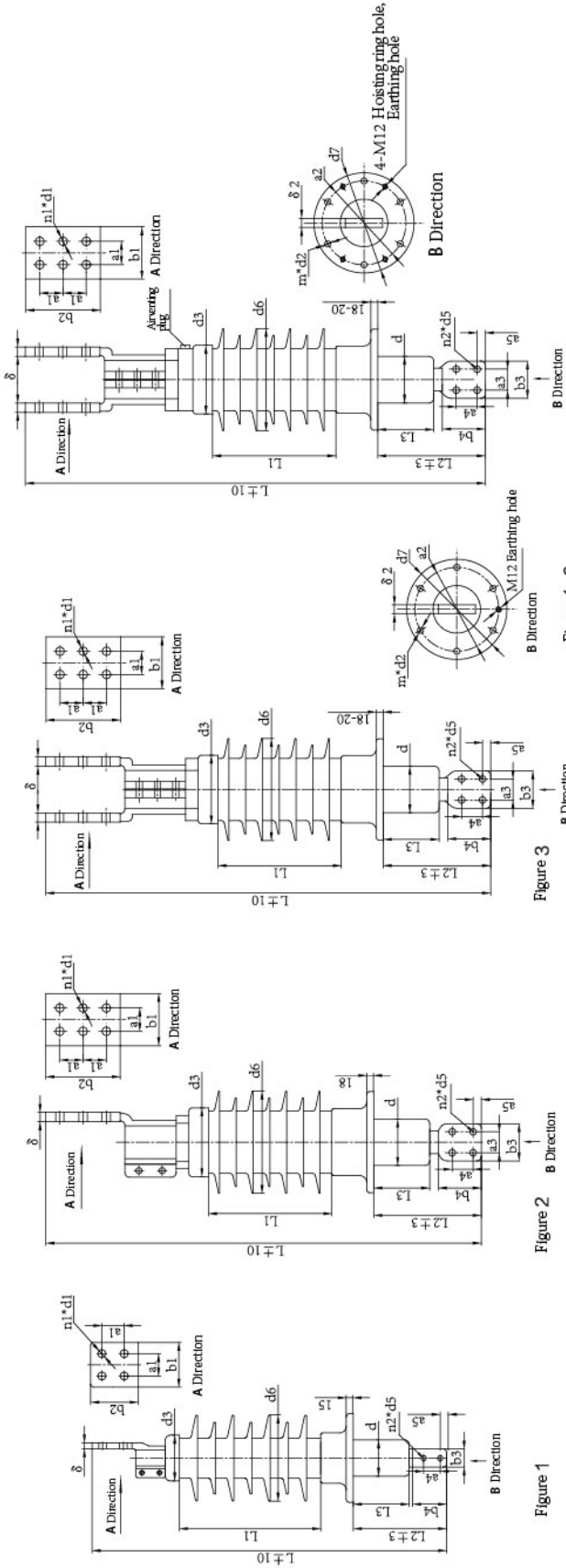


Figure 1

Figure 2

Figure 3

Figure 4

Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	24kV
Rated current	630-8000A
1 min power frequency dry voltage withstand voltage of lightning	55kV
1 min power frequency dry voltage withstand voltage of lightning	125kV
Bending test load	1000-3150N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Type	Wing terminal		Flange		Compound dielectric		Lead		Head		Wing terminal		Wing terminal in oil		Product code
		Thread	Max h	Max h	Max h	Max h	Max h	Max h	Max h	Max h	Max h	Max h	Max h	Max h	Max h	
FEB-24/630-4	1	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0206
FEB-24/1250-4	1	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0212
FEB-24/1600-4	1	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0216
FEB-24/2000-4	1	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0220
FEB-24/2500-4	2	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0225
FEB-24/3150-4	2	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0231
FEB-24/4000-4	2	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0240
FEB-24/5000-4	3	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0250
FEB-24/6300-4	4	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0263
FEB-24/8000-4	4	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0280

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size

40.5kV GFRP Dry-type Composite Transformer Bushing

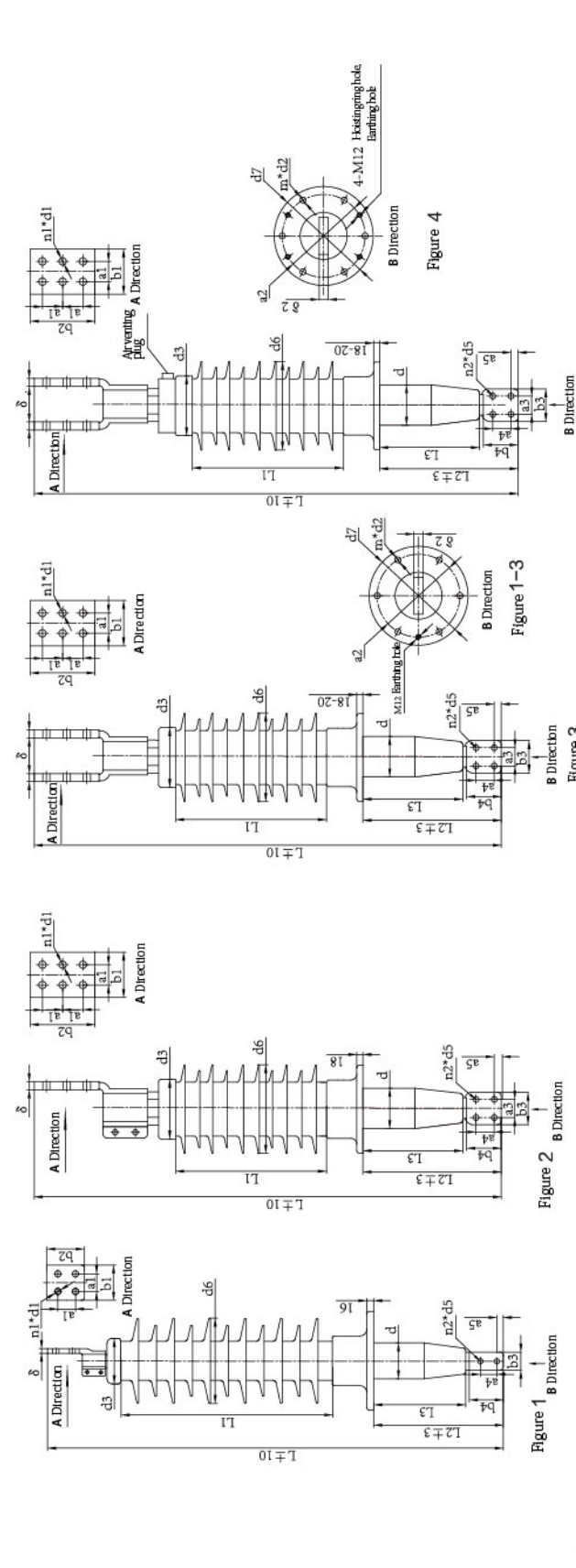


Figure 1

Figure 2

Figure 3

Figure 4

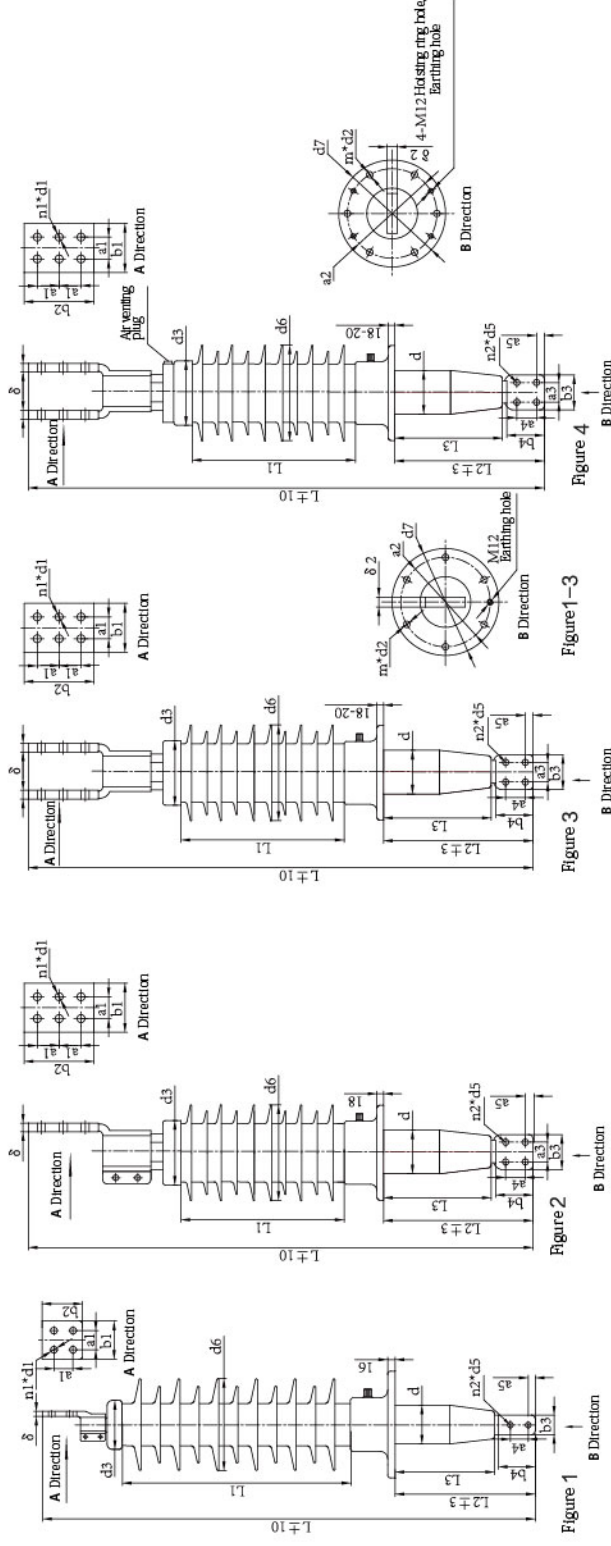
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	40.5kV
Rated current	630-8000A
1 min power frequency dry voltage withstand voltage of lightning	98kV
1 min power frequency dry voltage withstand voltage of lightning	200kV
Bending test load	1000-3150N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Type	Wing terminal		Flange		Compound dielectric		Lead		Head		Wing terminal		Wing terminal in oil		Product code
		Thread	Max h	Max h	Max h	Max h	Max h	Max h	Max h	Max h	Max h	Max h	Max h	Max h	Max h	
FEB-40.5/630-4	1	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0406
FEB-40.5/1250-4	1	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0412
FEB-40.5/1600-4	1	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0416
FEB-40.5/2000-4	2	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0420-01
FEB-40.5/2500-4	2	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0425
FEB-40.5/3150-4	2	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0431-12
FEB-40.5/4000-4	2	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0440
FEB-40.5/5000-4	3	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0450
FEB-40.5/6300-4	4	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0463
FEB-40.5/8000-4	4	M20	10	10	10	10	10	10	10	10	10	10	10	10	10	FFB0480

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size



### 12kV-40.5kV GFRP Dry-type Capacitive Composite Transformer Bushing

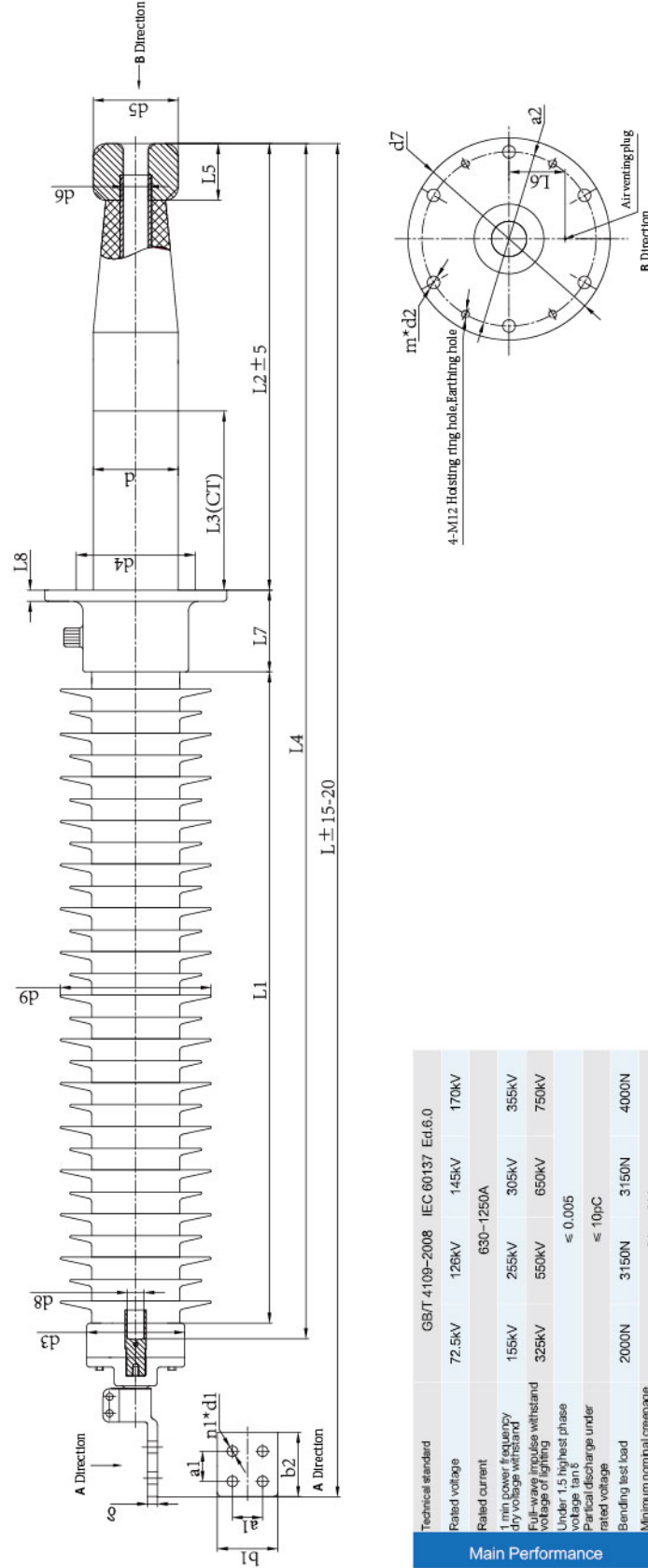


Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	12kV 24kV 40.5kV
Rated current	630-8000A
1 min power frequency dry voltage withstand	30kV 55kV 95kV
Full-wave impulse withstand voltage (1.5 highest phase voltage tan δ)	125kV 200kV
Partial discharge under rated voltage	≤ 0.005
Bending test load	≤ 10pC
Minimum nominal creepage distance	1000-3150N
	31mm/kV

Main dimension (mm)	Compound external insulation										Flange			Total length of immersed part			The diameter of main body of immersed part			Balancing voltage ball			Inner diameter of conduct tube			Wiring terminal in oil			Product code			
	L	Mdx	h	n1xd1	a1	b1xd2	δ	L4	d3	d8	L1	S	d6	d7	a2	mx2	L2	d	L3	L5	d9	d10	d11	b3	b4	a3	a4	a5		n2xd5	δ2	kg
FEBR-12/630-4	1	535		4x14	30	63x63	11	98	170	470	185	190	160	6x14	145	78	65						40	65	30	15	2x14	20			FB0106	
FEBR-12/2500-4	2	695		4x18	50	100x100	20	123	170	490	219	235	200	6x16	185	102	65						80	90	40	45	20	4x14	20			FB0125
FEBR-12/5000-4	3	810		6x18	50	112x160	20	123	170	490	219	235	200	6x16	195	102	65						100	100	50	50	25	4x14	20			FB0150
FEBR-24/630-4	1	725		4x14	30	63x63	11	98	295	840	185	190	160	6x14	200	78	120						40	65	30	15	2x14	20			FB0206	
FEBR-24/2500-4	2	865		4x18	50	100x100	20	123	285	875	219	235	200	6x16	240	102	120						80	90	40	45	20	4x14	20			FB0225
FEBR-24/8000-4	4	1070		6x18	60	130x180	20	173	300	945	268	290	250	6x18	280	148	120						160	130	50	60	32.5	6x18	30			FB0280
FEBR-40.5/630-4	1	960		4x14	30	63x63	11	108	440	1260	195	215	180	6x14	280	88	200						40	65	30	15	2x14	20			FB0406	
FEBR-40.5/2500-4	2	1100		4x18	50	100x100	20	123	440	1350	219	235	200	6x16	320	102	200						80	90	40	45	20	4x14	20			FB0425
FEBR-40.5/8000-4	4	1345		6x18	60	130x180	20	184	445	1350	268	310	270	6x18	380	162	200						160	130	50	60	32.5	6x18	30			FB0480

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size

### 72.5kV-170kV GFRP Dry-type Capacitive Transformer Bushing( Draw Lead Type)



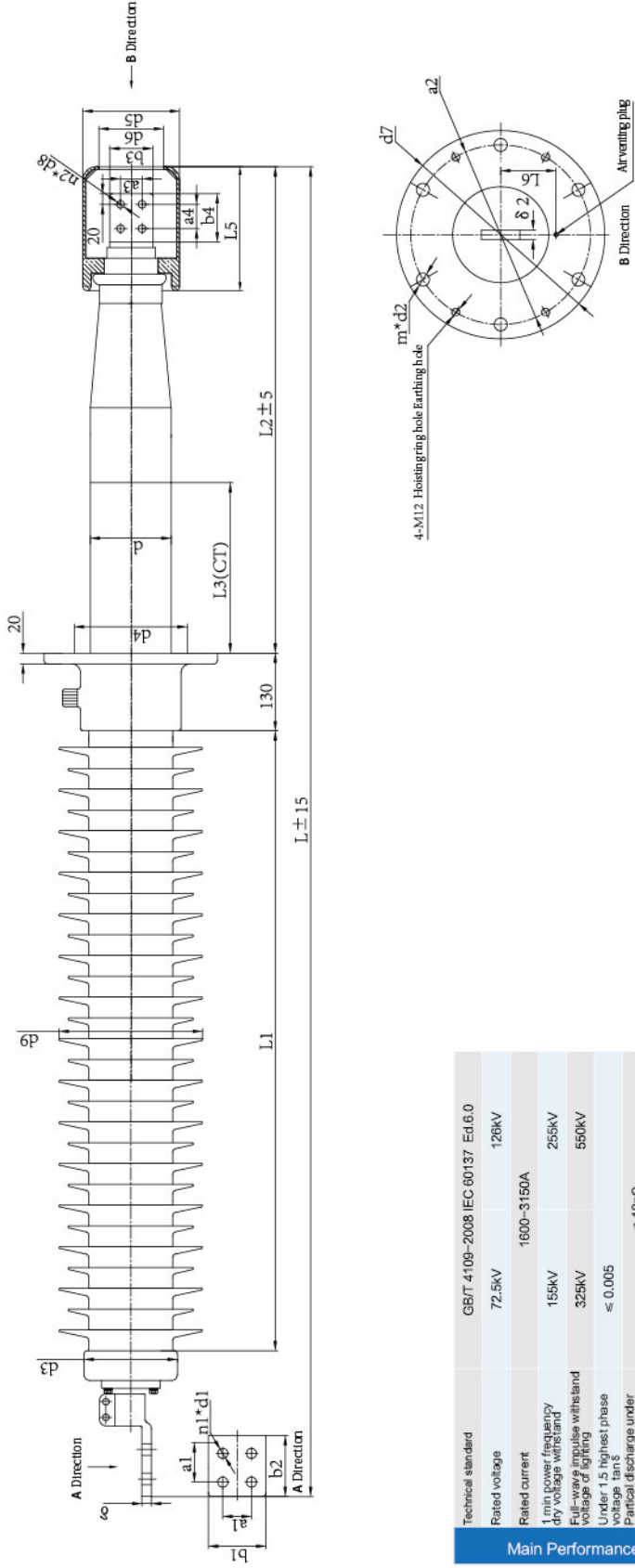
Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	72.5kV 126kV 145kV 170kV
Rated current	630-1250A
1 min power frequency dry voltage withstand	155kV 255kV 305kV 355kV
Full-wave impulse withstand voltage (1.5 highest phase voltage tan δ)	325kV 550kV 650kV 750kV
Partial discharge under rated voltage	≤ 0.005
Bending test load	≤ 10pC
Minimum nominal creepage distance	2000N 3150N 3150N 4000N
	31mm/kV

Main dimension (mm)	Compound external insulation										Flange			Total length of immersed part			The diameter of main body of immersed part			Balancing voltage ball			Inner diameter of conduct tube			Product code
	L	n1xd1	a1	b1xd2	δ	L4	d3	d8	L1	S	d6	d7	a2	mx2	L2	d	L3	L5	d5	d6	d6	d6	L8			
FEBR-72.5/630-4	1915	4x14	40	80x80	10	1690	138	28	740	2250	232	290	250	6x18	120	160	72	790	116	400	60	110	40	20		
FEBR-72.5/1250-4	1920	4x18	50	100x100	13	1690	138	32	740	2250	232	290	250	6x18	120	160	72	790	116	400	60	110	40	20		
FEBR-126/630-4	2465	4x14	40	80x80	10	2235	173	28	1165	3910	268	400	350	6x24	130	200	90	900	148	400	60	120	40	20		
FEBR-126/1250-4	2470	4x18	50	100x100	13	2235	173	32	1165	3910	268	400	350	6x24	130	200	90	900	148	400	60	120	40	20		
FEBR-126/1600-4	2475	4x18	50	100x100	16	2220	184	35	1150	3940	298	400	350	6x24	130	200	95	900	162	400	60	120	55	20		
FEBR-145/630-4	2860	4x14	40	80x80	10	2630	184	28	1390	4810	298	400	350	6x24	130	200	96	1070	162	400	90	140	40	21		
FEBR-145/1250-4	2865	4x18	50	100x100	13	2630	184	32	1390	4810	298	400	350	6x24	130	200	96	1070	162	400	90	140	40	21		
FEBR-170/630-4	3155	4x14	40	80x80	10	2920	208	28	1560	5300	312	400	350	6x24	150	230	110	1170	186	400	90	140	40	22		
FEBR-170/1250-4	3160	4x18	50	100x100	13	2920	208	32	1560	5300	312	400	350	6x24	150	230	110	1170	186	400	90	140	40	22		

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length



72.5kV-126kVGFRP Dry-type Capacitive Transformer Bushing ( Current Carrying Type)

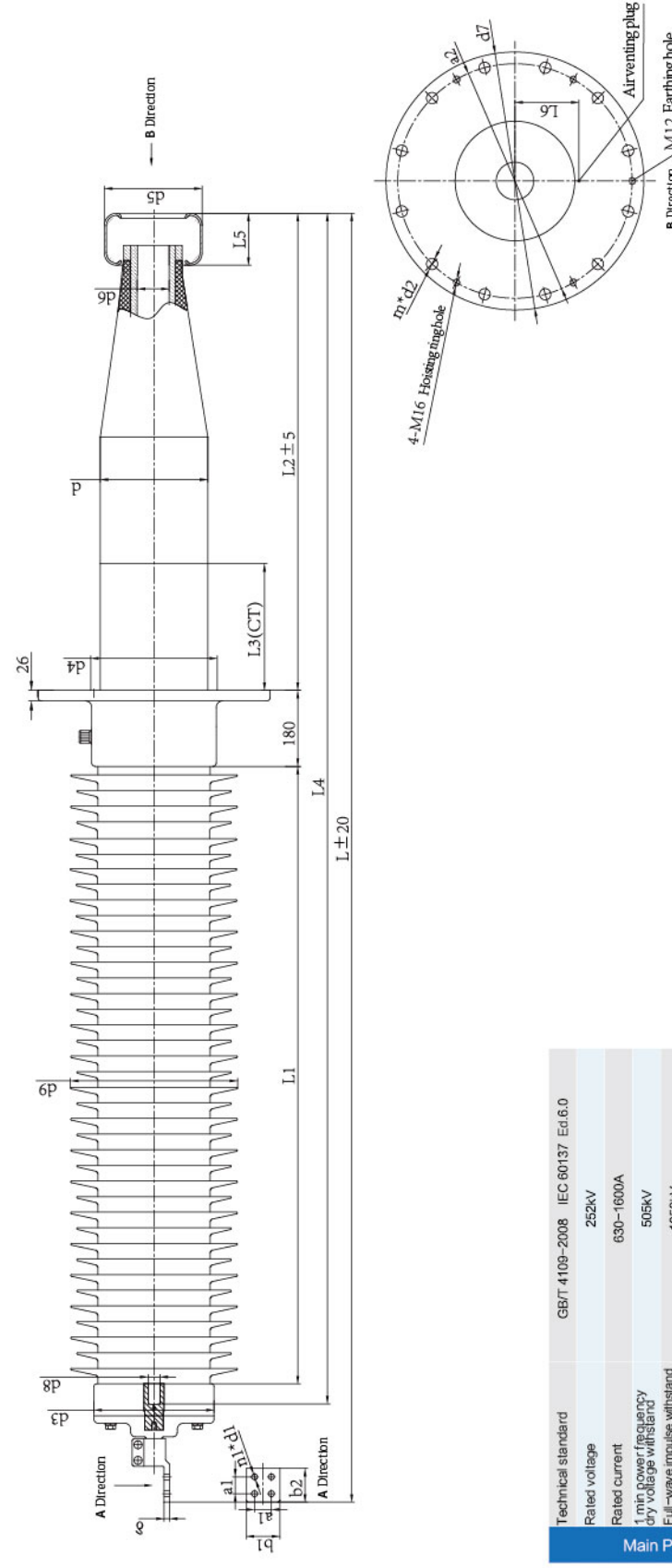


Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	72.5kV 126kV
Rated current	1600-3150A
1 min power frequency dry voltage withstand	155kV 255kV
5 min power frequency dry voltage withstand	325kV 550kV
Under 1.5 highest phase voltage tan δ	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	2000-4000N 3150-4000N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Wing terminal			Compound external insulation			Flange			The diameter of main body		Selecting voltage ball			Wing terminal of			Product code											
	Hole number and diameter	Hole distance	Panel surface	Panel thickness	Head diameter	Insulation distance	Maximum diameter	Outer diameter of flange plate	Center distance of hole	Center distance of hole	Inner diameter of hole	Center distance of hole	Center distance of hole	Center distance of hole	Center distance of hole	Panel surface	Hole distance		Hole diameter	Weight									
Type	L	n1xd1	a1	b1xb2	δ	d3	L1	S	d8	d9	d7	a2	mx/d2	≥d4	L6	L2	d	L3	L5	d5	d6	b3	b4	a3	a4	n2xd8	δ2	kg	
FEBR-72.5/1600-4	1735	4x18	50	100x100	16	158	770	2540	260	400	350	6x24	180	82	560	135	0	230	180	120	65	90	45	2x14	20	45	2x14	20	FB0616
FEBRL-72.5/1600-4	2135	4x18	50	100x100	16	158	770	2540	260	400	350	6x24	180	82	960	135	400	230	180	120	65	90	45	2x14	20	45	2x14	20	FBL0616-05
FEBR-72.5/2000-4	1755	4x18	50	100x100	16	158	770	2540	260	400	350	6x24	180	82	560	135	0	250	180	120	80	90	40	4x14	20	45	4x14	20	FB0620
FEBRL-72.5/2000-4	2155	4x18	50	100x100	16	158	770	2540	260	400	350	6x24	180	82	980	135	400	250	180	120	80	90	40	4x14	20	45	4x14	20	FBL0620-02
FEBR-126/1600-4	2325	4x18	50	100x100	16	184	1150	3910	298	400	350	6x24	180	95	770	162	0	230	180	120	65	90	45	2x14	20	45	2x14	20	FB1116a
FEBRL-126/1600-4	2645	4x18	50	100x100	16	184	1150	3910	298	400	350	6x24	180	95	1090	162	400	230	180	120	65	90	45	2x14	20	45	2x14	20	FBL1116a-10
FEBR-126/2000-4	2340	4x18	50	100x100	16	184	1150	3910	298	400	350	6x24	180	95	790	162	0	250	180	120	80	90	40	4x14	20	45	4x14	20	FB1120a
FEBRL-126/2000-4	2640	4x18	50	100x100	16	184	1150	3910	298	400	350	6x24	180	95	1090	162	400	250	180	120	80	90	40	4x14	20	45	4x14	20	FBL1120a-09

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.

252kV GFRP Dry-type Capacitor Composite Transformer Bushing (Draw Lead Type)



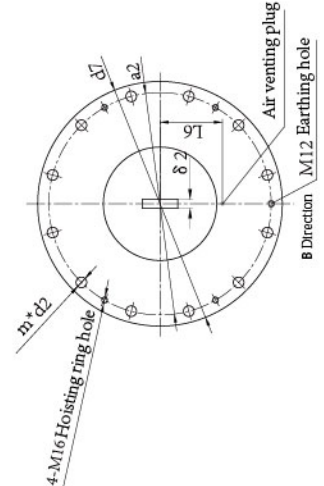
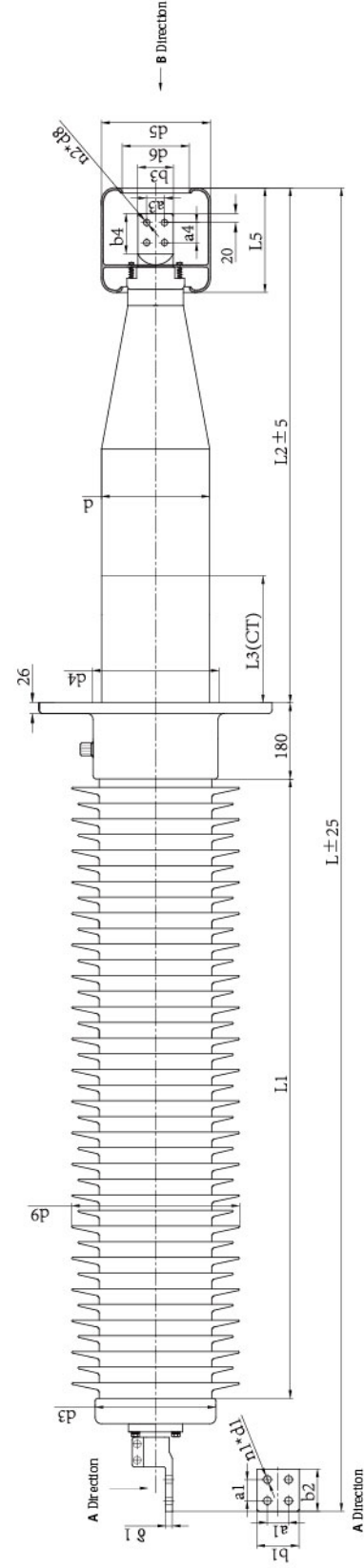
Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	252kV
Rated current	630-1600A
1 min power frequency dry voltage withstand	505kV
Full-wave impulse withstand voltage of lighting	1050kV
SIL withstand voltage	850kV
Under 1.5 highest phase voltage tan δ	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	4000N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Wing terminal			Compound external insulation		Flange			The diameter of main body		Selecting voltage ball			Wing terminal of			Product code												
	Hole number and diameter	Hole distance	Panel surface	Panel thickness	Head diameter	Insulation distance	Maximum diameter	Outer diameter of flange plate	Center distance of hole	Center distance of hole	Inner diameter of hole	Center distance of hole	Center distance of hole	Center distance of hole	Panel surface	Hole distance		Hole diameter	Weight										
Type	L	n1xd1	a1	b1xb2	δ	L4	S	d8	d9	d7	a2	mx/d2	≥d4	L6	L2	d	L3	L5	d5	d6	b3	b4	a3	a4	n2xd8	δ2	kg		
FEBRL-252/630-4	4035	4x14	40	80x80	10	3800	285	28	2240	8580	396	550	500	12x24	300	142	1330	400	130	245	60	400	130	245	60	400	130	245	FBL2206
FEBRL-252/1250-4	4040	4x18	50	100x100	13	3800	285	32	2240	8580	396	550	500	12x24	300	142	1330	400	130	245	60	400	130	245	60	400	130	245	FBL2212
FEBRL-252/1600-4	4060	4x18	50	100x100	16	3800	285	36	2240	8580	396	550	500	12x24	300	142	1330	400	130	245	60	400	130	245	60	400	130	245	FBL2216c

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.



### 252kV GFRP Dry-type Capacitive Composite Transformer Bushing( Current Carrying Type)

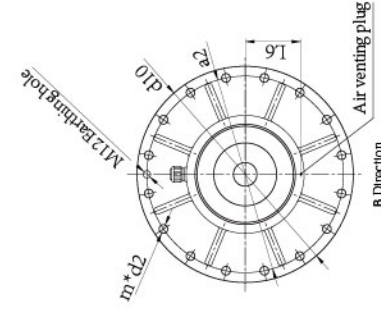
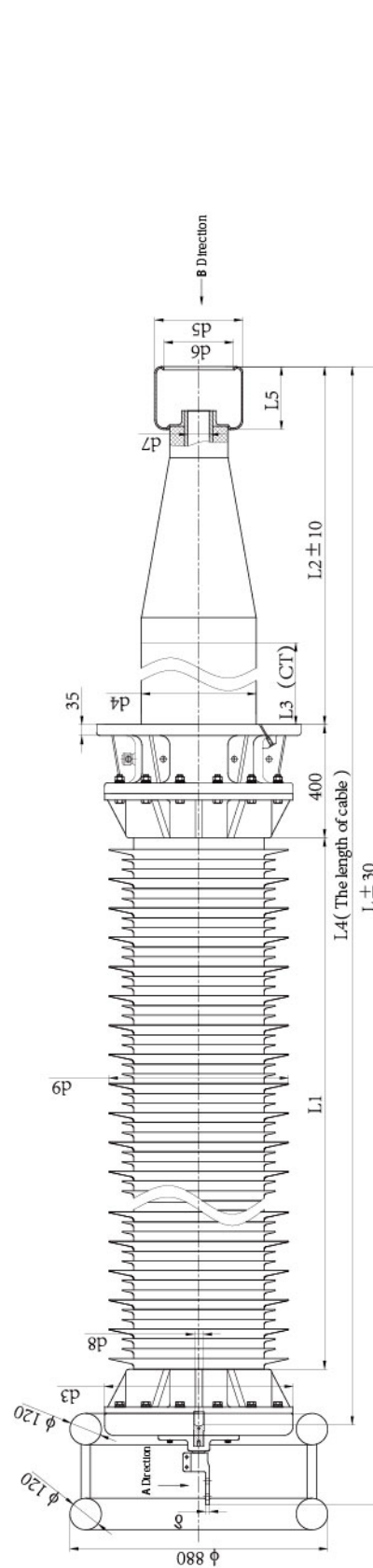


Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	252kV
Rated current	630-3150A
1 min power frequency dry voltage withstand	505kV
Full-wave impulse withstand voltage of lighting	1050kV
SIL withstand voltage	850kV
Under 1.5 highest phase voltage tan δ	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	4000-5000N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Wing terminal			Compound external insulation			Flange			Balancing voltage ball			Wiring terminal in oil			Product code							
	Hole number and diameter	Hole distance	Panel thickness	Head diameter	Panel thickness	Head diameter	Outer diameter of flange	Center distance of flange	Inner diameter of flange	Center distance of flange	Total length of immersed part	The diameter of main body in oil	Total length of immersed part	Hole distance	Hole number and diameter		Weight						
L	n1xd1	a1	b1xd2	δ	d3	L1	S	d9	a2	a1	L6	L3	L5	d6	a3	a4	n2xd8	6.2	kg				
FEBRL-252/1600-4	4145	4x18	50	100x100	16	285	2240	8580	396	550	12x24	300	142	1450	255	400	250	260	200	45	2x14	20	FBL2216
FEBRL-252/2000-4	4145	4x18	50	100x100	16	285	2240	8580	396	550	12x24	300	142	1450	255	400	250	260	200	45	4x14	20	FBL2220
FEBRL-252/2500-4	4145	4x18	50	100x100	20	285	2240	8580	396	550	12x24	300	142	1450	255	400	250	260	200	45	4x14	20	FBL2225

Note: Product dimension are the recommended size, and the key making dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.

### 363kV GFRP Dry-type Capacitive Composite Transformer Bushing



Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	363kV
Rated current	630-1250A
1 min power frequency dry voltage withstand	625kV
Full-wave impulse withstand voltage of lighting	1175kV
SIL withstand voltage	950kV
Under 1.5 highest phase voltage tan δ	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	4000N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Wing terminal			Compound external insulation			Flange			Balancing voltage ball			Wiring terminal in oil			Product code							
	Hole number and diameter	Hole distance	Panel thickness	Head diameter	Panel thickness	Head diameter	Outer diameter of flange	Center distance of flange	Inner diameter of flange	Center distance of flange	Total length of immersed part	The diameter of main body in oil	Total length of immersed part	Hole distance	Hole number and diameter		Weight						
L	n1xd1	a1	b1xd2	δ	d3	L1	S	d9	a2	a1	L6	L3	L5	d6	a3	a4	n2xd8	6.2	kg				
FEBRL-363/630-4	6290	4x18	50	100x100	20	6000	3430	13500	571	650	16x24	400	195	2000	365	600	200	280	195	70	d7	70	FBL3306

Note: Product dimension are the recommended size, and the key making dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.







### 24kV GFRP Dry-type Porcelain Transformer Bushing

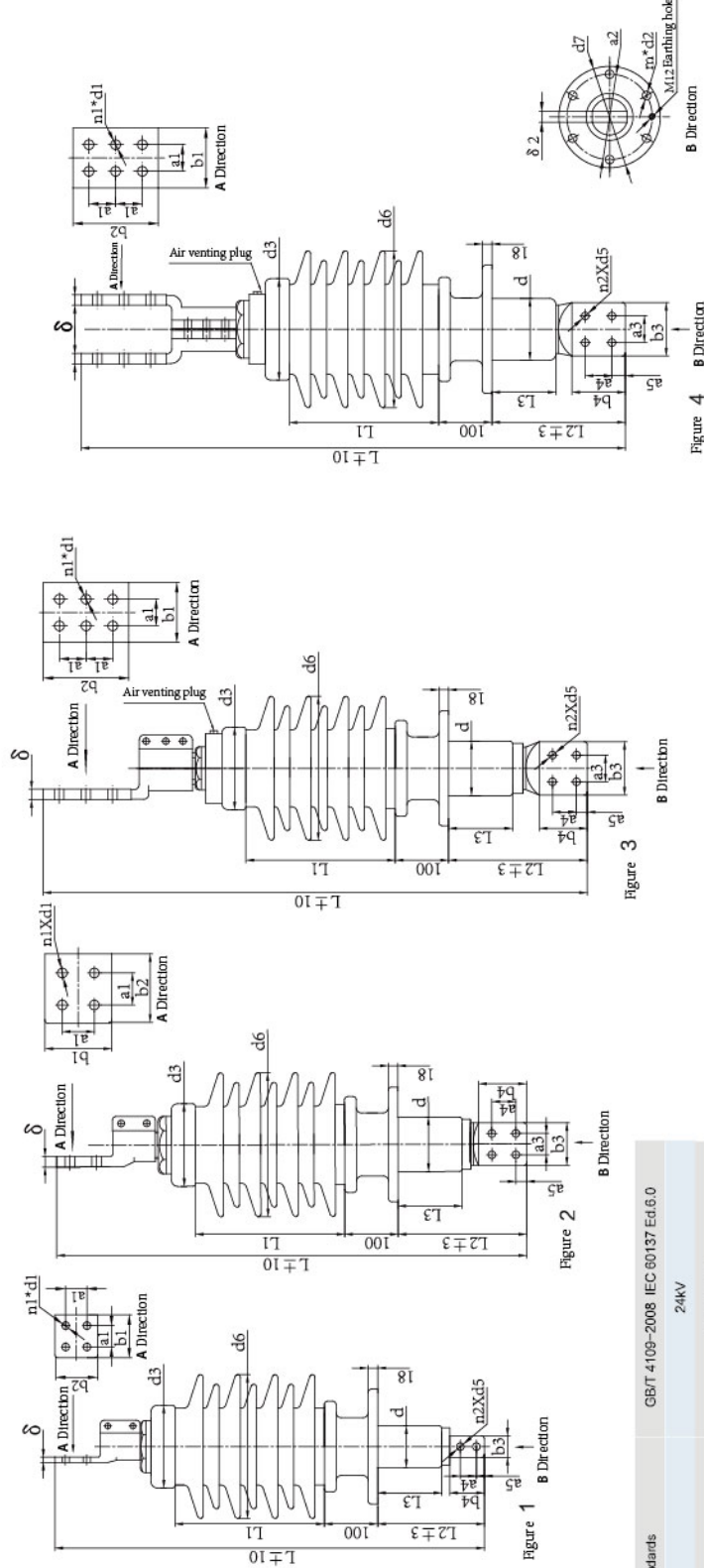


Figure 1-4

Technical standards	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	24kV
Rated current	630-8000A
1 min power frequency dry voltage withstand	55kV
Full-wave impulse withstand voltage of lightning	125kV
Bending resistant test load	1000-3150N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Type	Wing terminal			Compound external insulation			Flange			Total length of insulator part	The length of cable terminal part	Balancing voltage ball diameter	Inner diameter of conductive tube	Wiring terminal in oil			Product code											
		Thread pitch	Screw length	Hole diameter	Lead distance	Normal Maximum distance	Outer diameter	Flange diameter	Outer diameter of hole	Hole diameter					Hole distance	Hole number and diameter	Panel surface		Hole distance	Hole number and diameter	Weight								
L	Mdxn	h	n1xd1	a1	b1xb2	s	d8	L1	S	d6	d7	a2	mx2	L2	L3	L4	L5	d9	d10	b3	b4	a3	a4	a5	n2xd5	δ.2	kg		
1	785	4x14	30	63x63	11	158	280	760	242	190	160	6x14	200	78	120					40	65	30	15	2x14	20			CFB0206-02	
1	815	4x14	40	80x80	10	158	280	760	242	190	160	6x14	200	78	120					40	65	30	15	2x14	20			CFB0212-02	
1	865	4x18	50	100x100	16	145	280	760	242	190	160	6x14	230	78	120					65	90	45	20	2x14	20			CFB0216-03	
2	875	4x18	50	100x100	16	145	280	760	242	190	160	6x14	240	78	120					80	90	40	45	20	4x14	20			CFB0220
3	905	4x18	50	100x100	20	178	280	760	272	240	200	6x18	240	102	120					80	90	40	45	20	4x14	20			CFB0225
3	950	4x18	60	125x125	20	178	280	760	272	240	200	6x18	240	102	120					80	90	40	45	20	4x14	20			CFB0231
3	1010	4x18	50	112x160	20	178	280	760	272	240	200	6x18	260	102	120					100	90	50	45	20	4x14	20			CFB0240
4	1020	4x18	50	112x160	20	190	280	760	294	240	200	6x18	250	116	120					100	100	50	50	25	4x14	20			CFB0250

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size

### 40.5kV GFRP Dry-type Porcelain Transformer Bushing

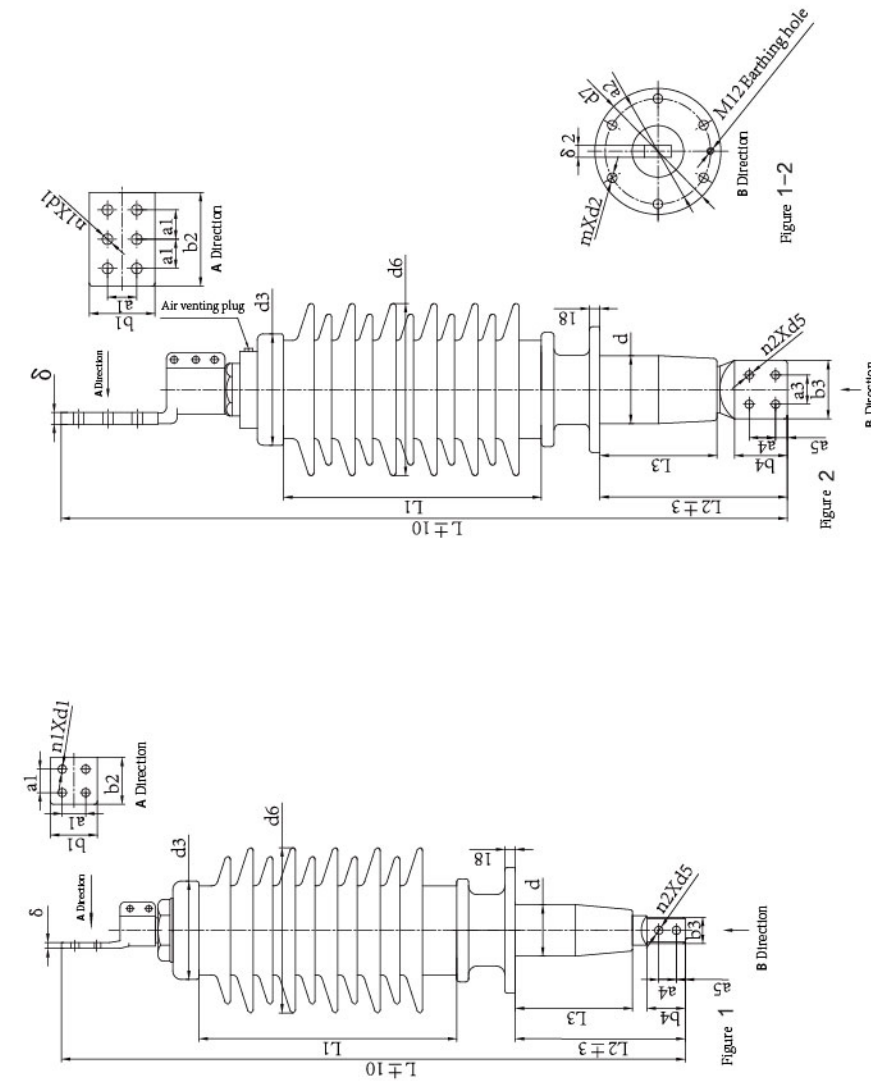


Figure 1-2

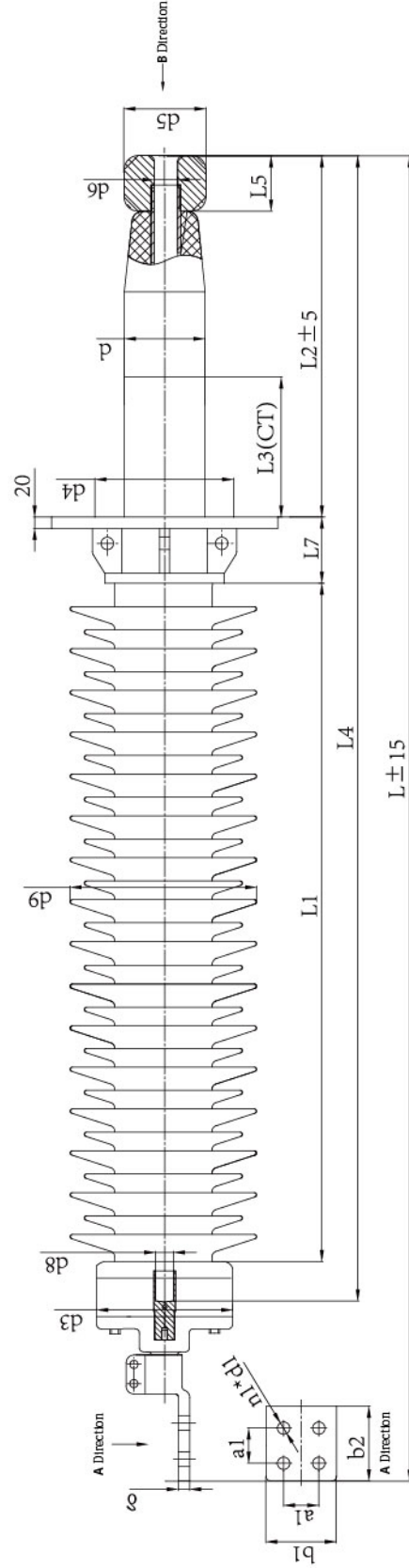
Technical standards	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	40.5kV
Rated current	630-4000A
1 min power frequency dry voltage withstand	95kV
Full-wave impulse withstand voltage of lightning	200kV
Bending resistant test load	1000-3150N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Type	Wing terminal			Compound external insulation			Flange			Total length of insulator part	The diameter of body terminal part	Total length of terminal part	Balancing voltage ball diameter	Inner diameter of conductive tube	Wiring terminal in oil			Product code										
		Thread pitch	Screw length	Hole diameter	Lead distance	Normal Maximum distance	Outer diameter	Flange diameter	Outer diameter of hole	Hole diameter						Hole distance	Hole number and diameter	Panel surface		Hole distance	Hole number and diameter	Weight							
L	Mdxn	h	n1xd1	a1	b1xb2	s	d8	L1	S	d6	d7	a2	mx2	L2	L3	L4	L5	d9	d10	b3	b4	a3	a4	a5	n2xd5	δ.2	kg		
1	1030	4x14	30	63x63	11	168	440	1290	252	215	180	6x16	290	88	200					45	65	30	15	2x14	20			CFB0406	
1	1060	4x14	40	80x80	10	168	440	1290	252	215	180	6x16	290	88	200					45	65	30	15	2x14	20			CFB0412	
1	1105	4x18	50	100x100	16	168	440	1290	252	215	180	6x16	310	88	200					65	90	45	20	2x14	20			CFB0416	
2	1160	4x18	50	100x100	16	178	440	1290	272	240	200	6x18	335	102	200					80	90	40	45	20	4x14	20			CFB0420-01
2	1160	4x18	50	100x100	20	178	440	1290	272	240	200	6x18	335	102	200					80	90	40	45	20	4x14	20			CFB0425
2	1205	4x18	60	125x125	20	190	440	1290	294	240	200	6x18	335	116	200					90	90	40	45	20	4x14	20			CFB0431-07
2	1230	4x18	50	112x160	20	190	440	1290	294	240	200	6x18	320	116	200					100	90	50	45	20	4x14	20			CFB0440

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size



72.5-126kV GFRP Dry-type Capacitive Porcelain Transformer Bushing ( Draw Lead Type)

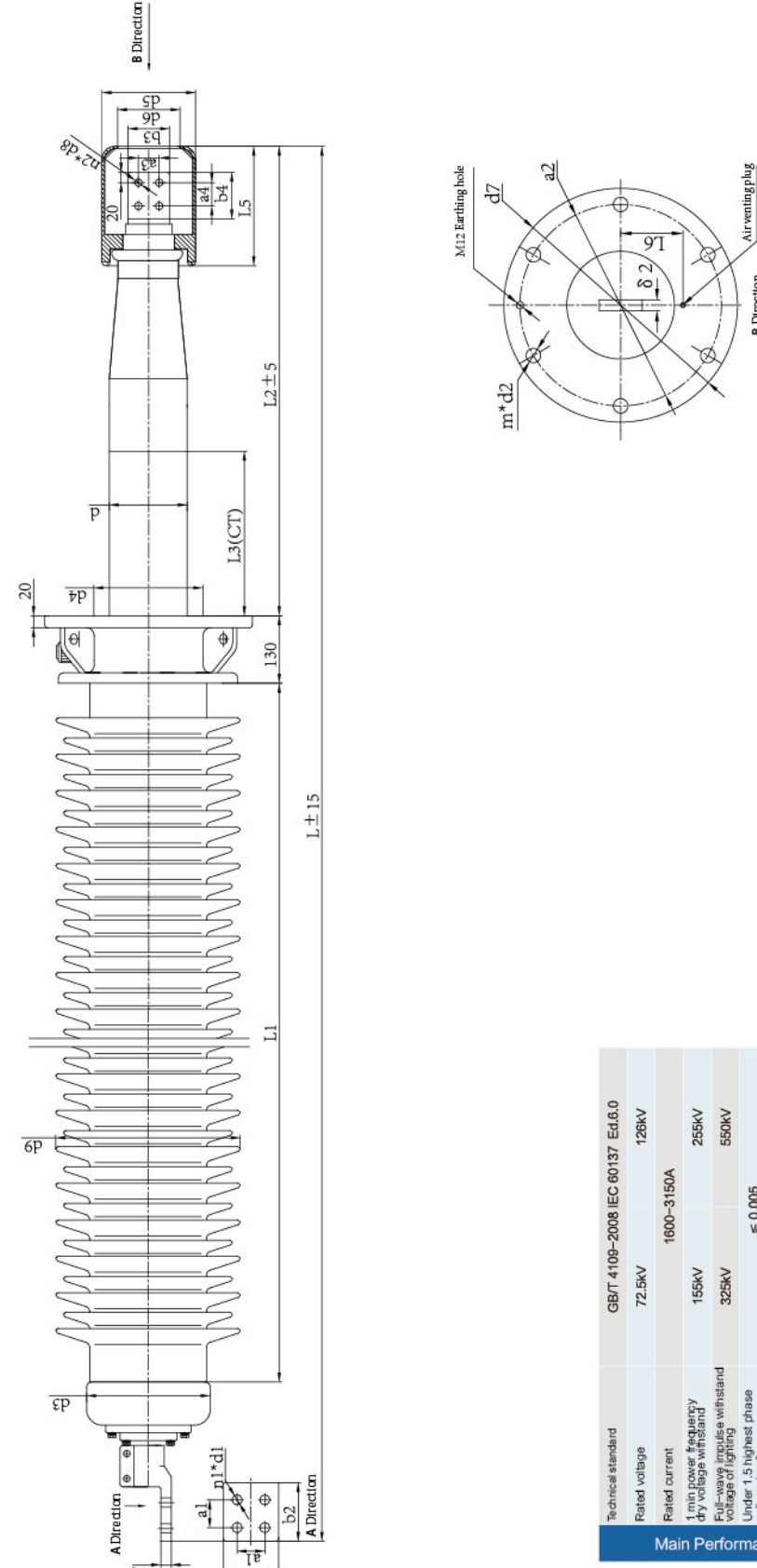


Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	72.5kV 126kV
Rated current	630-3150A
1 min power frequency dry voltage withstand	155kV 255kV
Full-wave impulse withstand voltage of lightning	325kV 550kV
Under 1.5 highest phase voltage with 0.5μs rise time and 50% duty cycle discharge under rated voltage	≤ 0.005 ≤ 10pC
Bending test load	3150N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Wiring terminal			Compound external insulation	Lead connection aperture	Head diameter	Cable entry length	Flange			Total length of immersed part	The diameter of main body	Total length of oil immersed part	Balancing voltage ball	Inner diameter of conduct tube	Weight	Product code							
	Hole number and diameter	Hole distance	Panel surface					Outer diameter	Center distance	Hole number and diameter								Flange height	Inner diameter of surface	Center distance of vent hole	L6	L5	d5	d6
EBRL-72.5/630-4	L 1910	n1xd1 4x18	a1 40	b1xb2 80x80	δ 10	L4 1660	d3 190	d8 28	d9 294	d7 325	a2 280	d7 6x20	L7 120	L6 90	L2 790	d 148	L3 400	L5 60	L4 120	d5 60	d6 40	120	40	CBL0606
EBRL-72.5/1250-4	L 1915	n1xd1 4x18	a1 50	b1xb2 100x100	δ 13	L4 1660	d3 190	d8 32	d9 294	d7 325	a2 280	d7 6x20	L7 120	L6 90	L2 790	d 148	L3 400	L5 60	L4 120	d5 60	d6 40	120	40	CBL0612
EBRL-126/630-4	L 2470	n1xd1 4x18	a1 40	b1xb2 80x80	δ 10	L4 2220	d3 223	d8 28	d9 338	d7 400	a2 350	d7 6x24	L7 130	L6 90	L2 900	d 148	L3 400	L5 60	L4 120	d5 60	d6 40	120	40	CBL1106a
EBRL-126/1250-4	L 2475	n1xd1 4x18	a1 50	b1xb2 100x100	δ 13	L4 2220	d3 223	d8 32	d9 338	d7 400	a2 350	d7 6x24	L7 130	L6 90	L2 900	d 148	L3 400	L5 60	L4 120	d5 60	d6 40	120	40	CBL112a

Note: Product dimension are the recommended size, and the key making dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.

72.5-126kV GFRP Dry-type Capacitive Porcelain Transformer Bushing ( Current Carrying Type)



Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	72.5kV 126kV
Rated current	1600-3150A
1 min power frequency dry voltage withstand	155kV 255kV
Full-wave impulse withstand voltage of lightning	325kV 550kV
Under 1.5 highest phase voltage with 0.5μs rise time and 50% duty cycle discharge under rated voltage	≤ 0.005 ≤ 10pC
Bending test load	2000-4000N
Minimum nominal creepage distance	31mm/kV

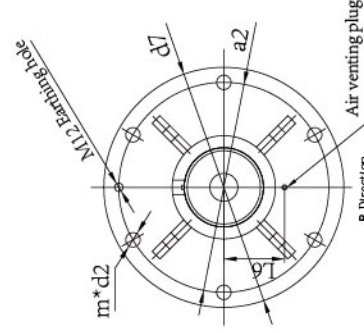
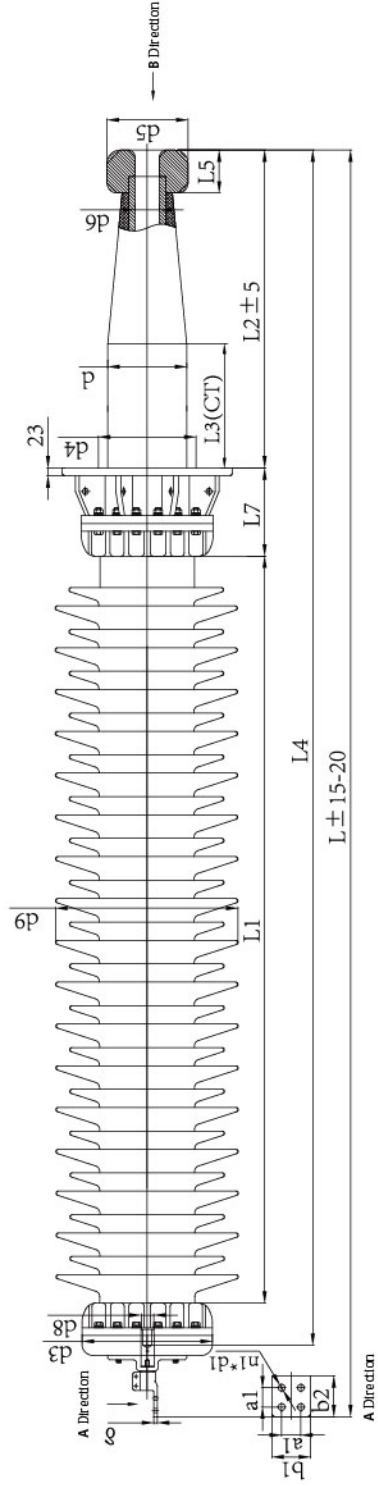
Main dimension (mm)	Wiring terminal			Compound external insulation	Head diameter	Cable entry length	Flange			Total length of immersed part	The diameter of main body	Total length of oil immersed part	Balancing voltage ball	Inner diameter of conduct tube	Weight	Product code								
	Hole number and diameter	Hole distance	Panel surface				Outer diameter	Center distance	Hole number and diameter								Flange height	Inner diameter of surface	Center distance of vent hole	L6	L5	d5	d6	kg
EBRL-72.5/1600-4	L 2105	n1xd1 4x18	a1 50	b1xb2 100x100	δ 16	L4 2080	d3 208	d8 320	d9 320	d7 400	a2 350	d7 6x24	L7 180	L6 82	L2 960	d 135	L3 400	L5 400	L4 230	d5 180	d6 120	20	20	CBL0616
EBRL-72.5/2000-4	L 2125	n1xd1 4x18	a1 50	b1xb2 100x100	δ 16	L4 2080	d3 208	d8 320	d9 320	d7 400	a2 350	d7 6x24	L7 180	L6 82	L2 980	d 135	L3 400	L5 400	L4 230	d5 180	d6 120	20	20	CBL0620
EBRL-72.5/2500-4	L 2125	n1xd1 4x18	a1 50	b1xb2 100x100	δ 16	L4 2080	d3 208	d8 320	d9 320	d7 400	a2 350	d7 6x24	L7 180	L6 82	L2 980	d 135	L3 400	L5 400	L4 230	d5 180	d6 120	20	20	CBL0625-07
EBRL-126/1600-4	L 2660	n1xd1 4x18	a1 50	b1xb2 100x100	δ 16	L4 3450	d3 345	d8 355	d9 355	d7 400	a2 350	d7 6x24	L7 180	L6 95	L2 1070	d 162	L3 400	L5 400	L4 230	d5 180	d6 120	20	20	CBL1116-03
EBRL-126/2000-4	L 2675	n1xd1 4x18	a1 50	b1xb2 100x100	δ 20	L4 3450	d3 345	d8 355	d9 355	d7 400	a2 350	d7 6x24	L7 180	L6 95	L2 1090	d 162	L3 400	L5 400	L4 230	d5 180	d6 120	20	20	CBL1120-07
EBRL-126/2500-4	L 2675	n1xd1 4x18	a1 50	b1xb2 100x100	δ 20	L4 3450	d3 345	d8 355	d9 355	d7 400	a2 350	d7 6x24	L7 180	L6 95	L2 1090	d 162	L3 400	L5 400	L4 230	d5 180	d6 120	20	20	CBL1125-06

Note: Product dimension are the recommended size, and the key making dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.



145-170kV GFRP Dry-type Capacitive Porcelain Transformer Bushing

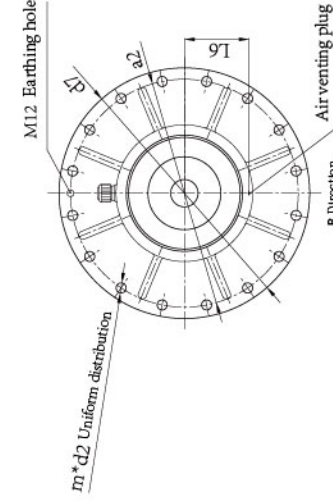
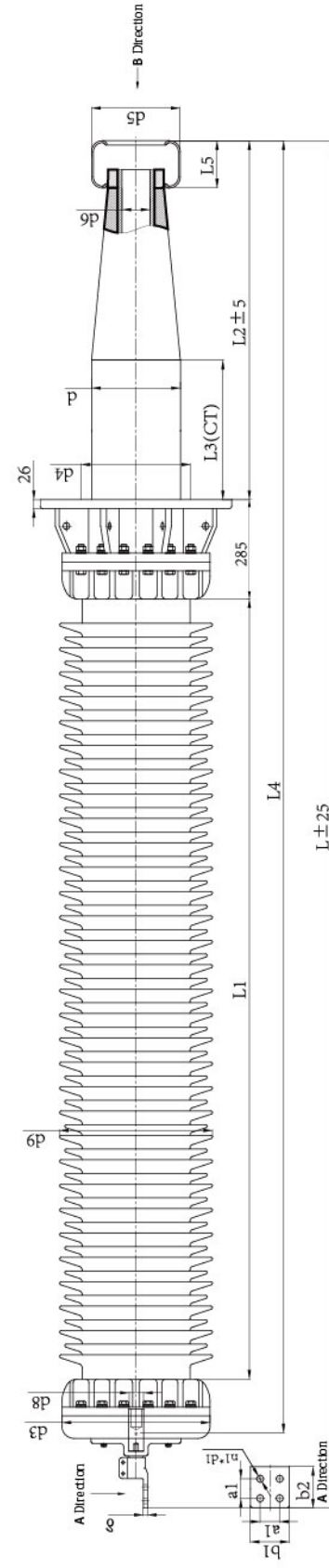
252kV GFRP Dry-type Capacitive Porcelain Transformer Bushing ( Draw Lead Type)



Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	145KV 170KV
Rated current	630-1250A
1 min power frequency dry voltage withstand	305(275)KV 355(325)KV
Full-wave impulse withstand voltage (tan δ)	650KV 750KV
Lighting discharge voltage (tan δ)	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	3150N
Minimum nominal creepage distance	31mm/kV

Type	Main dimension (m)		Wing terminal		Cable entry length	Lead connection aperture	Compound external insulation			Flange			Total length of immersed part	The diameter of main body immersed in oil	Total length of immersed part	Balancing voltage ball	Inner diameter of conduct tube	Weight	Product code					
	L	l	Hole number and diameter	Hole distance			Panel surface	Panel thickness	Insulation distance	Nominal creepage distance	Maximum diameter	Center distance of hole								Hole number and diameter	Flange height	Inner diameter of sealing surface	Center distance of vent hole	d
EBR-145/630-4	2650	4x14	40	80x80	10	2420	345	28	1360	4495	350	400	350	6x24	215	200	95	710	162	0	90	140	40	CB1406
EBRL-145/630-4	3010	4x14	40	80x80	10	2780	345	28	1360	4495	350	400	350	6x24	215	200	95	1070	162	400	90	140	40	CB1406
EBR-145/1250-4	2655	4x18	50	100x100	13	2420	345	32	1360	4495	350	400	350	6x24	215	200	95	710	162	0	90	140	40	CB1412
EBRL-145/1250-4	3015	4x18	50	100x100	13	2780	345	32	1360	4495	350	400	350	6x24	215	200	95	1070	162	400	90	140	40	CB1412
EBR-170/630-4	2990	4x14	40	80x80	10	2750	345	28	1600	5270	380	400	350	6x24	235	230	110	800	186	0	90	140	40	CB1706
EBRL-170/630-4	3380	4x14	40	80x80	10	3130	345	28	1600	5270	380	400	350	6x24	235	230	110	1170	186	400	90	140	40	CB1706
EBR-170/1250-4	2995	4x18	50	100x100	13	2750	265	32	1600	5270	380	400	350	6x24	235	230	110	800	186	0	90	140	40	CB1712
EBRL-170/1250-4	3385	4x18	50	100x100	13	3130	265	32	1600	5270	380	400	350	6x24	235	230	110	1170	186	400	90	140	40	CB1712

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table. CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.



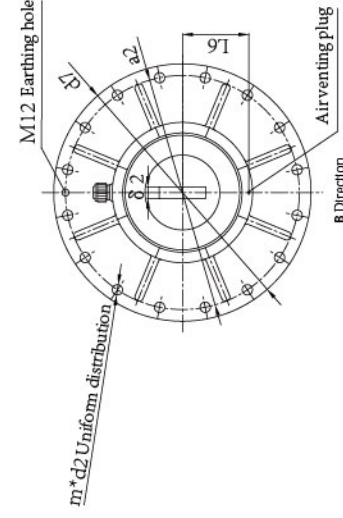
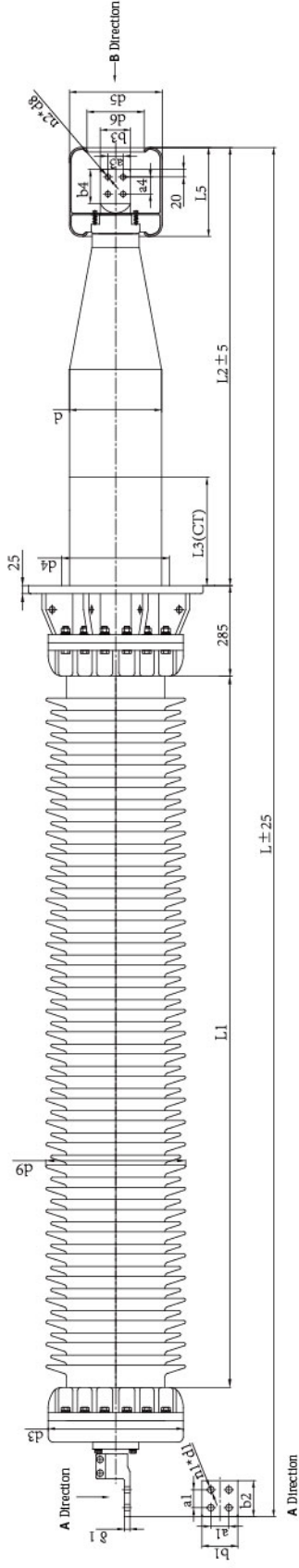
Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	252KV
Rated current	630-1600A
1 min power frequency dry voltage withstand	505KV
Full-wave impulse withstand voltage (tan δ)	1050KV
SIL withstand voltage	850KV
Under 1.5 highest phase voltage tan δ	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	4000N
Minimum nominal creepage distance	31mm/kV

Type	Main dimension (m)		Wing terminal		Cable entry length	Lead connection aperture	Compound external insulation			Flange			Total length of immersed part	The diameter of main body immersed in oil	Total length of immersed part	Balancing voltage ball	Inner diameter of conduct tube	Weight	Product code				
	L	l	Hole number and diameter	Hole distance			Panel surface	Panel thickness	Insulation distance	Nominal creepage distance	Maximum diameter	Center distance of hole								Hole number and diameter	Flange height	Inner diameter of sealing surface	Center distance of vent hole
EBRL-252/630-4	4240	4x14	40	80x80	10	4010	425	28	2240	7820	440	550	500	16x22	300	142	1330	255	400	130	245	60	CB12206
EBRL-252/1250-4	4245	4x18	50	100x100	13	4010	425	32	2240	7820	440	550	500	16x22	300	142	1330	255	400	130	245	60	CB12212
EBRL-252/1600-4	4265	4x18	50	100x100	16	4010	425	35	2240	7820	440	550	500	16x22	300	142	1330	255	400	130	245	60	CB12216c

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table. CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.



### 252kV GFRP Dry-type Capacitive Composite Transformer Bushing( Current Carrying Type)

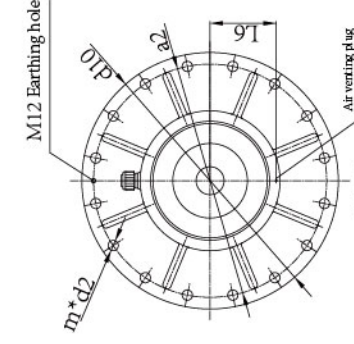
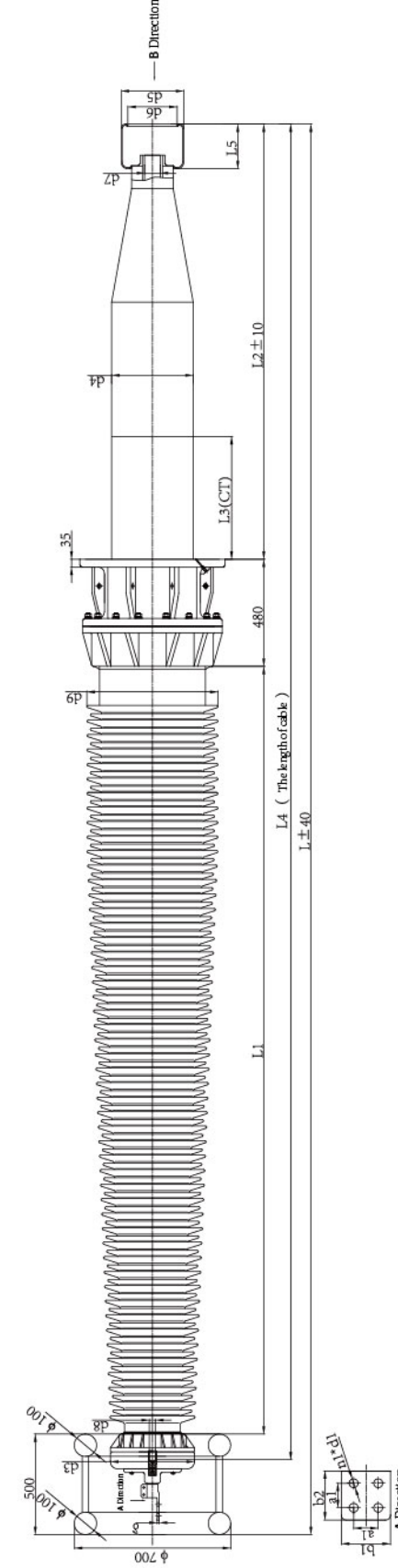


Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	252kV
Rated current	1600-2500A
1 min power frequency dry voltage withstand	505kV
Full-wave impulse withstand voltage of lightning	1050kV
SIL withstand voltage	850kV
Under 1.5 highest phase voltage tan δ	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	4000-5000N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Type	Wing terminal		Porcelain sleeve external insulation		Range		Total length of immersed part		Balancing voltage ball		Flange		Weight		Product code												
		Hole distance	Hole diameter	Head diameter	Insulation distance	Outer diameter	Maximun diameter	Nominal diameter	Outer diameter	Inner diameter	Outer diameter	Inner diameter	Outer diameter	Inner diameter	Outer diameter		Inner diameter	Weight										
L	n1xd1	a1	b1xd2	6	d3	L1	S	d7	a2	mx2	>d4	L6	L6	L2	d	L3	L5	d5	d6	b3	b4	a3	a4	n2xd8	δ2	Kg		
4375	4x18	50	100x100	16	425	2240	8580	440	550	500	16x22	300	142	1450	255	400	250	260	200	200	65	90	45	2x14	20			CBL2216
4360	4x18	50	100x100	16	425	2240	8580	440	550	500	16x22	300	142	1450	255	400	250	260	200	200	80	90	40	4x14	20			CBL2220
4380	4x18	50	100x100	20	425	2240	8580	440	550	500	16x22	300	142	1450	255	400	250	260	200	200	80	90	40	4x14	20			CBL2225

Note: Product dimension are the recommended size, and the key making dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part(L2), Cable entry length (L4), Total length (L) are charged depend on the change of CT length.

### 363kV GFRP Dry-type Capacitive Composite Transformer Bushing



Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	363kV
Rated current	630-1250A
1 min power frequency dry voltage withstand	625kV
Full-wave impulse withstand voltage of lightning	1175kV
SIL withstand voltage	950kV
Under 1.5 highest phase voltage tan δ	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	4000N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Type	Wing terminal		Cable		Head diameter		Lead		Composed external insulation		Range		Total length of immersed part		The diameter of main body immersed part		Total length of immersed part		Balancing voltage ball		Inner diameter of conduct tube		Weight kg	Product code	
		Hole distance	Hole diameter	Head diameter	Insulation distance	Lead diameter	Maximun diameter	Nominal diameter	Outer diameter	Inner diameter	Outer diameter	Inner diameter	Outer diameter	Inner diameter	Outer diameter	Inner diameter	Outer diameter	Inner diameter	Outer diameter	Inner diameter	Outer diameter	Inner diameter	Outer diameter			
L	n1xd1	a1	b1xd2	6	L4	d3	L1	S	d8	L1	S	d9	a2	mx2	>d4	L6	L2	d	L3	L5	d5	d6	d7	d7	Kg	
6720	4x18	50	100x100	20	6340	375	28	3740	13000	587	660	600	600	16x24	400	195	2000	365	500	200	280	195	70			CBL3306

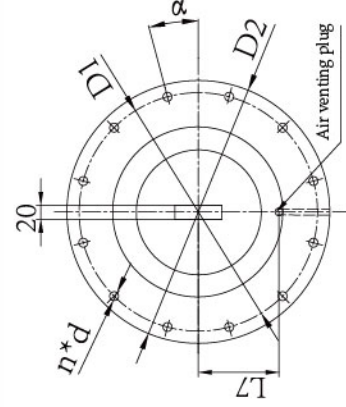
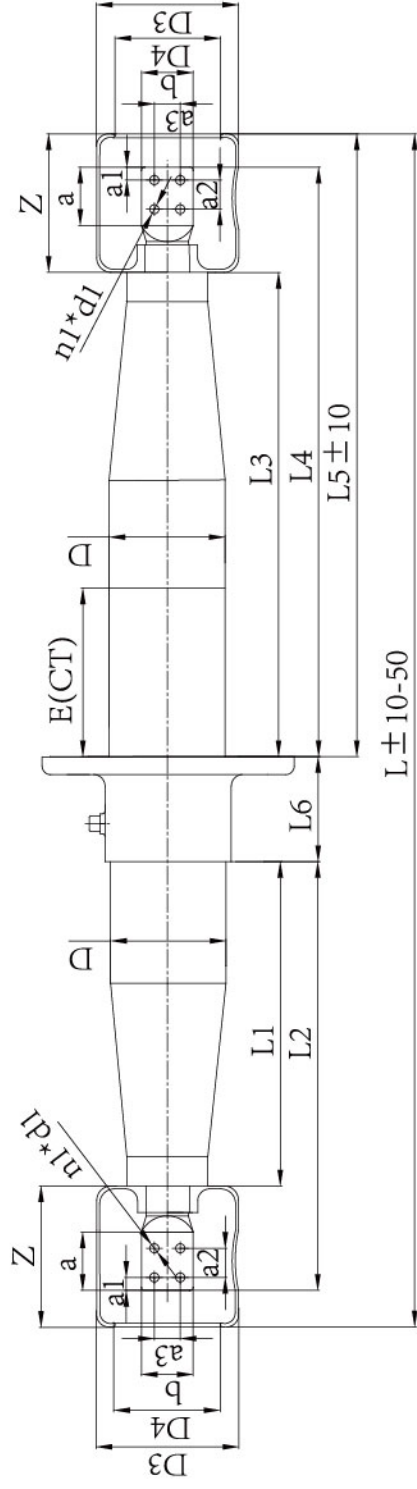
Note: Product dimension are the recommended size, and the key making dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part(L2), Cable entry length (L4), Total length (L) are charged depend on the change of CT length.







72.5-252kV GFRP Dry-type Capacitive Oil/Oil Bushing



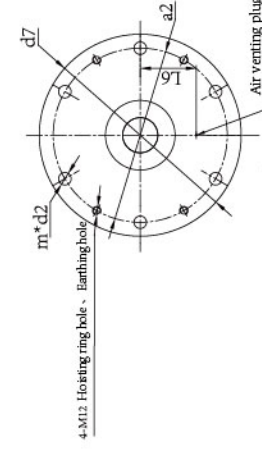
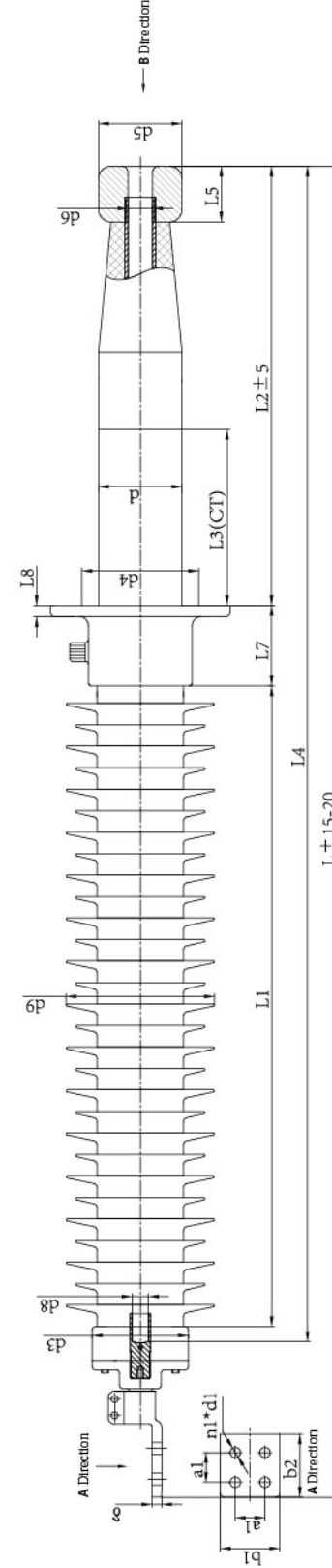
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0	
Rated voltage	72.5kV 128kV 145kV 252kV	
Rated current	630-2500A	
1 min power frequency dry voltage withstand	140kV 230kV 275kV 460kV	
Full-wave impulse withstand voltage of lighting	325kV 550kV 650kV 1050kV	
SL withstand voltage	850kV	
Under 1.5 highest phase voltage tan δ	≤ 0.005	
Partial discharge under rated voltage	≤ 10pC	
Bending test load	2000N 3150N 3150N 4000N	

Main Performance

Main dimension (mm)	Oil end			Transformer side					Flange			Balancing voltage ball			Wiring terminal			Weight	Product code					
	L	L1	L2	D	L3	L4	L5	E	D	L6	L7	D1	D2	mx	d	Z	a			b	a1	a2	a3	n1xd1
EBROL-72.5/1250	1290	300	430	120	300	430	500	200	120	90	75	250	290	8x16	22.5	220	140	200	65	40	15	30	2x14	YYL0612
EBROL-126/1250	1800	440	570	150	840	970	1040	400	150	120	90	290	335	12x20	15	220	140	200	65	40	15	30	2x14	YYL1112
EBROL-252/1250	2680	800	955	280	1200	1355	1450	400	280	180	150	500	550	12x24	15	260	185	250	65	40	15	30	2x14	YYL2212
EBROL-252/1600	2680	800	955	280	1200	1355	1450	400	280	180	150	500	550	12x24	15	260	185	250	90	65	20	45	2x14	YYL2216

Note: Product dimension are the recommended size, and the key making dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are charged depend on the change of CT length.

72.5-170kV RIF Dry-type Capacitive Composite Transformer Bushing ( Draw Lead Type)



Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0	
Rated voltage	72.5kV 128kV 145kV 170kV	
Rated current	630-1250A	
1 min power frequency dry voltage withstand	155kV 255kV 305kV 355kV	
Full-wave impulse withstand voltage of lighting	325kV 550kV 650kV 750kV	
Under 1.5 highest phase voltage tan δ	≤ 0.005	
Partial discharge under rated voltage	≤ 10pC	
Bending test load	2000N 3150N 3150N 4000N	
Minimum nominal creepage distance	31mm/kV	

Main Performance

Main dimension (mm)	Wiring terminal			Cable entry diameter length	Head diameter	Compound external insulation			Flange			Balancing voltage ball			Total length of immersed part			Inner diameter of conductor tube	Product code						
	L	L1	L2			Insulation distance	Nominal coverage distance	Maximum umbrella diameter	Outer diameter of flange plate	Center distance of hole	Hole number	Height	Inner diameter of sealing surface	Center distance of vent hole	Total length of immersed part	The diameter of body in oil	Total length of immersed part			Radius of voltage ball	Inner diameter				
FVEBRL-72.5/630-4	1915	4x14	40	80x80	10	1690	138	28	740	2250	232	290	250	6x18	120	160	72	790	116	400	60	110	40	20	FVEBRL0606
FVEBRL-72.5/1250-4	1920	4x18	50	100x100	13	1690	138	32	740	2250	232	290	250	6x18	120	160	72	790	116	400	60	110	40	20	FVEBRL0612
FVEBRL-126/630-4	2465	4x14	40	80x80	10	2235	173	28	1165	3910	268	400	350	6x24	130	200	90	900	148	400	60	120	40	20	FVEBRL1106
FVEBRL-126/1250-4	2470	4x18	50	100x100	13	2235	173	32	1165	3910	268	400	350	6x24	130	200	90	900	148	400	60	120	40	20	FVEBRL1112
FVEBRL-126/1600-4	2475	4x18	50	100x100	16	2220	184	35	1150	3940	298	400	350	6x24	130	200	95	900	162	400	60	120	55	20	FVEBRL1116
FVEBRL-145/630-4	2860	4x14	40	80x80	10	2630	184	28	1390	4810	298	400	350	6x24	130	200	96	1070	162	400	90	140	40	22	FVEBRL1406
FVEBRL-145/1250-4	2865	4x18	50	100x100	13	2630	184	32	1390	4810	298	400	350	6x24	130	200	96	1070	162	400	90	140	40	22	FVEBRL1412
FVEBRL-170/1250-4	3155	4x14	40	80x80	10	2920	208	28	1560	5300	312	400	350	6x24	150	230	110	1170	186	400	90	140	40	22	FVEBRL1706
FVEBRL-170/1250-4	3160	4x18	50	100x100	13	2920	208	32	1560	5300	312	400	350	6x24	150	230	110	1170	186	400	90	140	40	22	FVEBRL1712

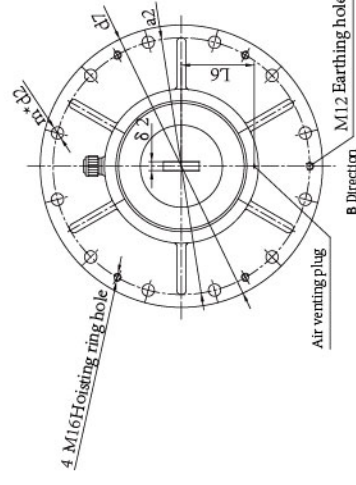
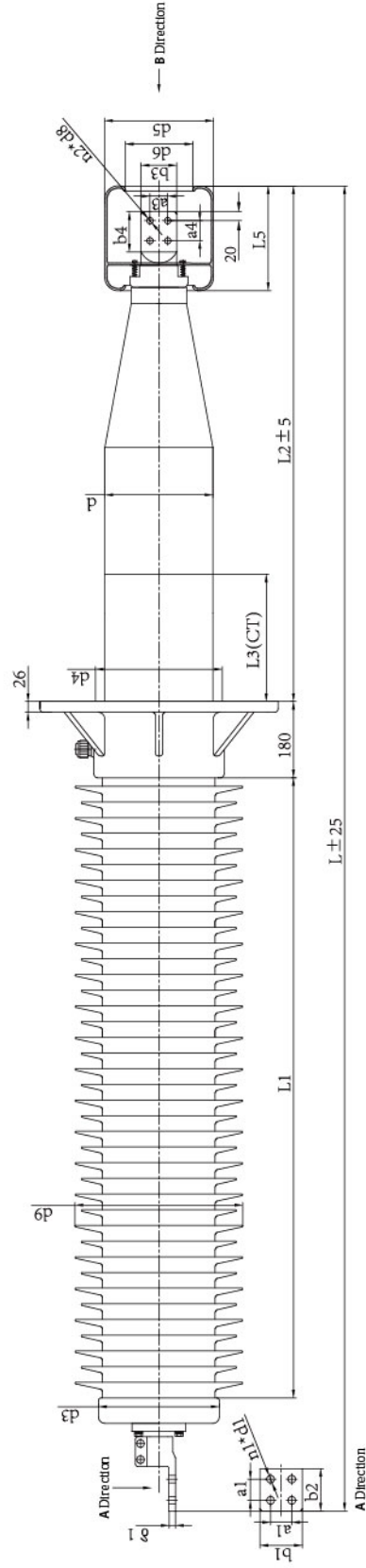
Note: Product dimension are the recommended size, and the key making dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are charged depend on the change of CT length.







252kV RIF Dry-type Capacitive Composite Transformer Bushing ( Current Carrying Type)

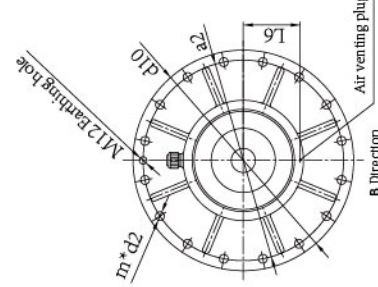
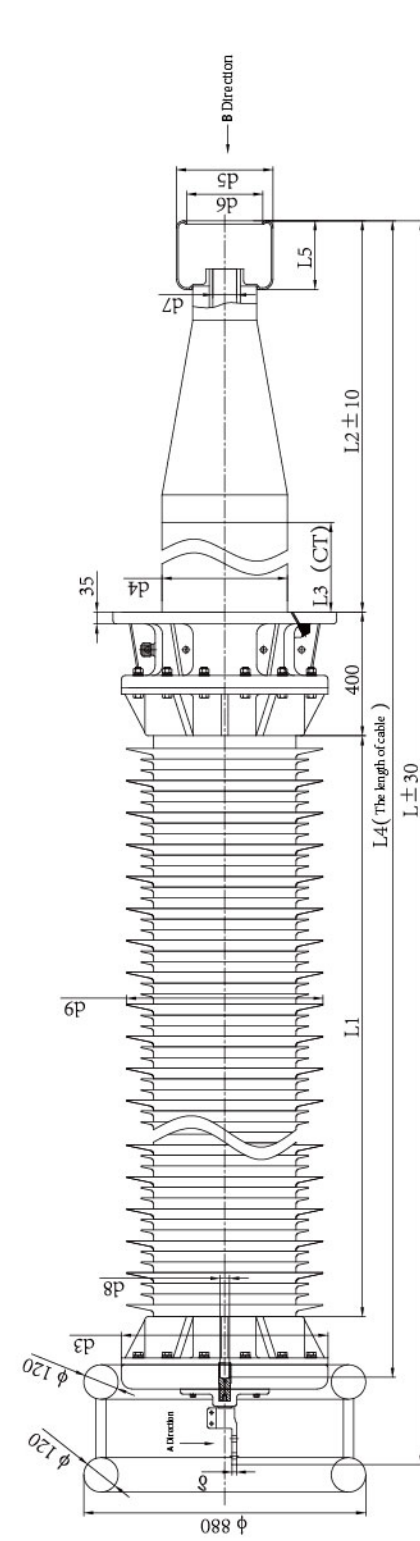


Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	252kV
Rated current	1600-3150A
1 min power frequency dry voltage withstand	505 (460) kV
Full-wave impulse withstand voltage of lightning	1050kV
SIL withstand voltage	850kV
Under 1.5 highest phase voltage tanδ	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	4000-5000N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Compound external insulation			Flange			Wiring terminal			Wiring terminal in oil			Product code												
	Head diameter	Lead connection aperture	Lead connection diameter	Outer diameter of top plate	Center diameter of top plate	Hole diameter of top plate	Center diameter of hole	Hole diameter	Panel surface	Hole distance	Hole number and diameter	Panel thickness		Weight											
L	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	d12	d13	kg											
FVEDBRL-252/1600-4	4145	4x18	50	100x100	16	285	2240	8580	396	550	500	12x24	300	142	1450	255	400	250	260	200	45	2x14	20	525	FVEDBRL2216
FVEDBRL-252/2000-4	4145	4x18	50	100x100	16	285	2240	8580	396	550	500	12x24	300	142	1450	255	400	250	260	200	45	4x14	20	510	FVEDBRL2220
FVEDBRL-252/2500-4	4145	4x18	50	100x100	20	285	2240	8580	396	550	500	12x24	300	142	1450	255	400	250	260	200	45	4x14	20	525	FVEDBRL2225

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.

363kV RIF Dry-type Capacitive Composite Transformer Bushing ( Draw Lead Type)



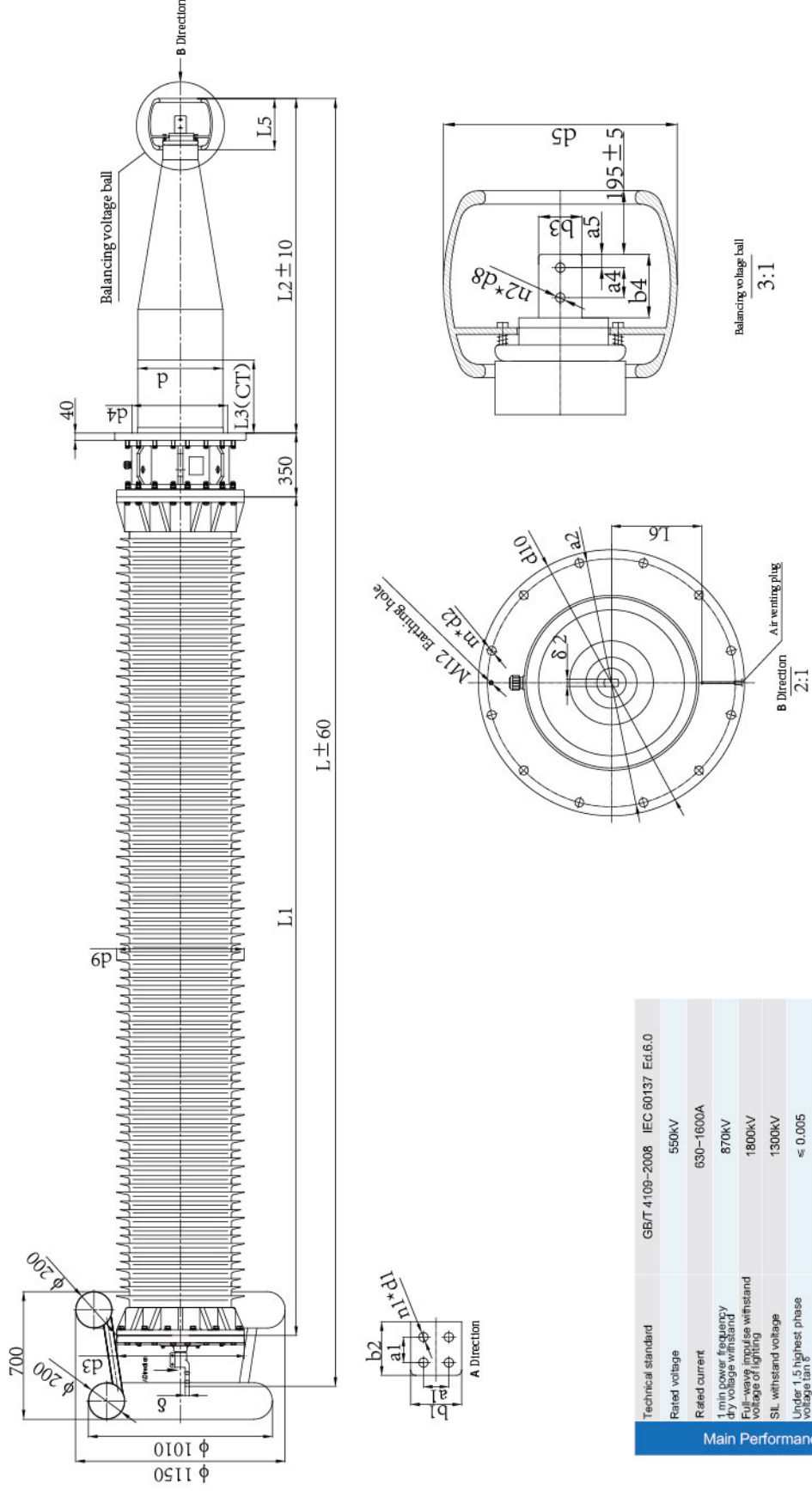
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	363kV
Rated current	630-1250A
1 min power frequency dry voltage withstand	625kV
Full-wave impulse withstand voltage of lightning	1175kV
SIL withstand voltage	950kV
Under 1.5 highest phase voltage tanδ	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	4000N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Compound external insulation			Flange			Wiring terminal			Wiring terminal in oil			Product code													
	Head diameter	Lead connection aperture	Lead connection diameter	Outer diameter of top plate	Center diameter of top plate	Hole diameter of top plate	Center diameter of hole	Hole diameter	Panel surface	Hole distance	Hole number and diameter	Panel thickness		Weight												
L	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	d11	d12	d13	kg												
FVEBRL-363/630-4	6290	4x18	50	100x100	20	6000	13500	571	650	600	16x24	400	195	2000	365	600	L3	d	L2	d	L5	d5	d6	d7	1430	FVEBRL3306

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.



### 550kV RIF Dry-type Capacitive Composite Transformer Bushing

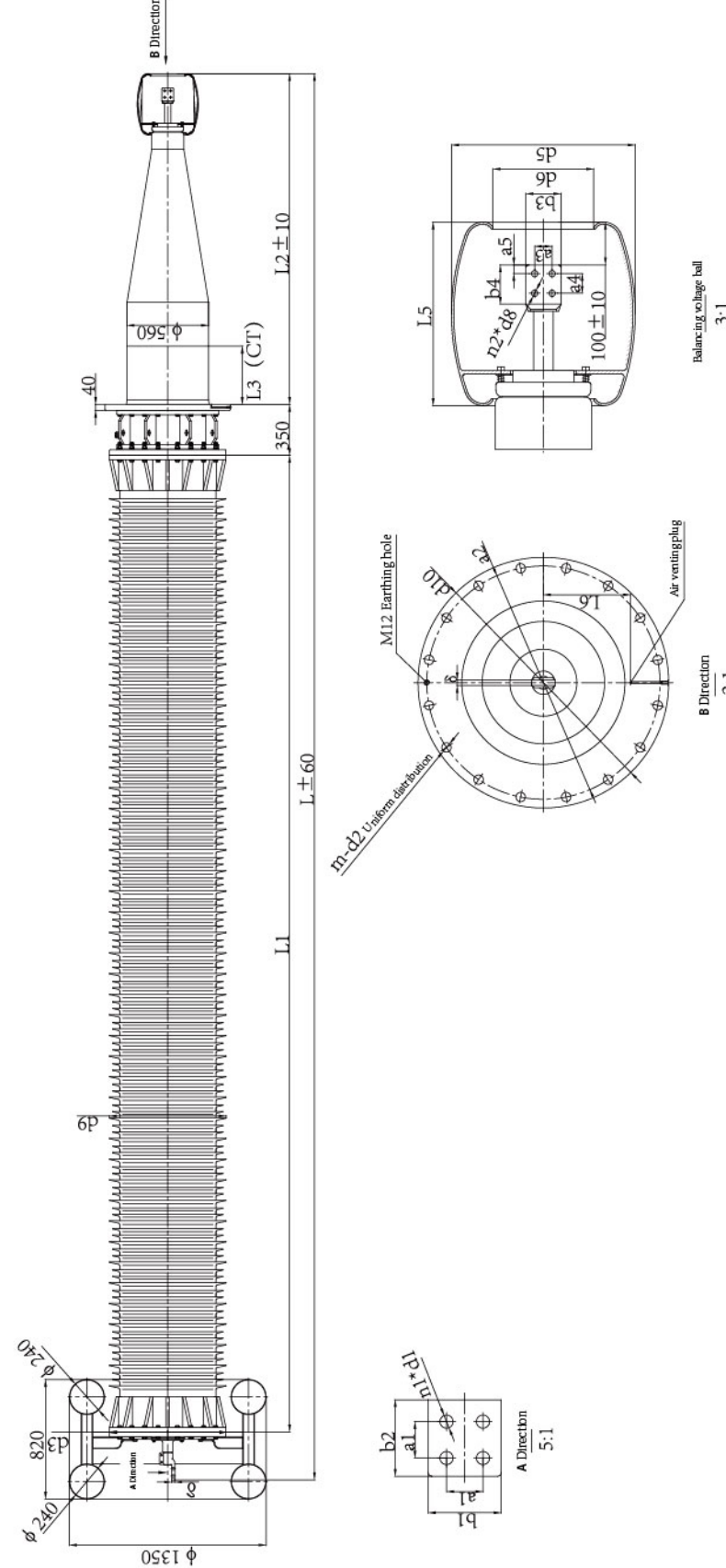


Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	550kV
Rated current	630-1600A
1 min power frequency dry voltage withstand voltage	870kV
5 min power frequency dry voltage withstand voltage	1800kV
SIL withstand voltage	1300kV
Under 1.5 highest phase voltage tan δ	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	5000N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Wiring terminal		Cable entry length	Head diameter	Lead	Compound external insulation		Flange		Total length of immersed part	Total length of part in oil	Balancing voltage ball	Wiring terminal in oil		Inner diameter of conductor tube	Weight	Product code													
	Hole number/diameter	Hole distance				Outer diameter	Inner diameter	Outer diameter	Inner diameter				Hole distance	Hole diameter				Hole distance	Hole diameter											
L	n1x1	a1	δ	-	d3	-	L1	S	d9	d10	a2	mxd2	>d4	L6	L2	d	L3	L5	d5	d6	a6	a5	n2xd8	δ 2	d7	-	2585	FVEDBRL5016-02		
FVEDBRL-550/1600-4	8630	4x18	50	100x100	20	-	700	-	700	800	750	16x24	520	248.5	2280	465	550	380	350	230	40	65	-	30	15	2x14	20	-	2585	FVEDBRL5016-02

Note: Product dimension are the recommended size, and the key making dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.

### 750kV RIF Dry-type Capacitive Composite Transformer Bushing



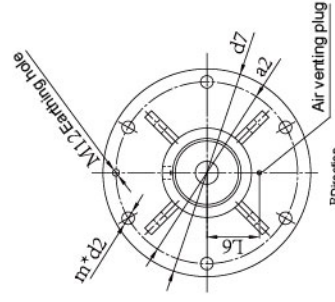
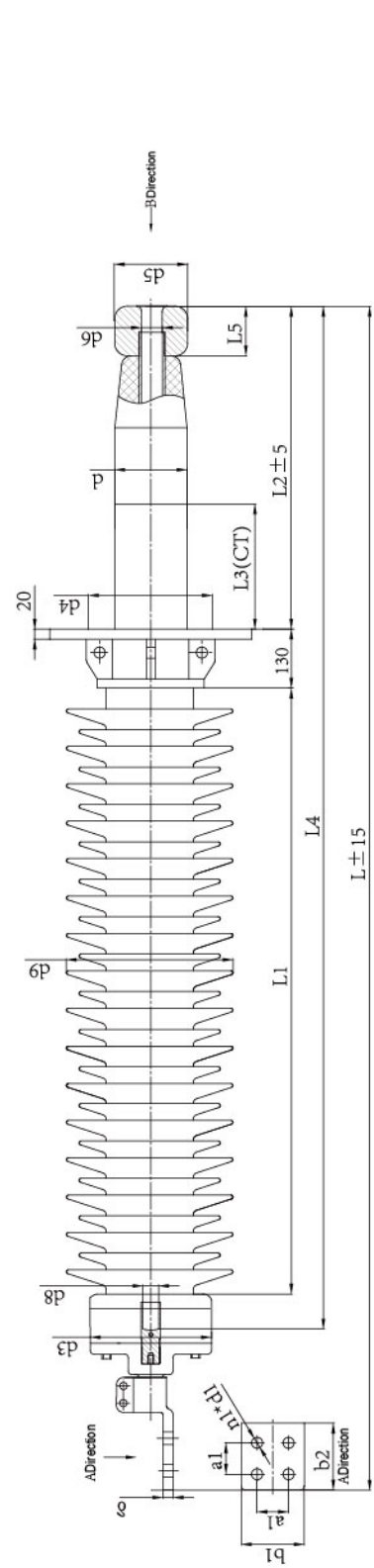
Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	800kV
Rated current	2500A
1 min power frequency dry voltage withstand voltage	970kV
5 min power frequency dry voltage withstand voltage	2100kV
SIL withstand voltage	1425kV
Under 1.5 highest phase voltage tan δ	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	5000N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Wiring terminal		Cable entry length	Head diameter	Lead	Compound external insulation		Flange		Total length of immersed part	Total length of part in oil	Balancing voltage ball	Wiring terminal in oil		Inner diameter of conductor tube	Weight	Product code												
	Hole number/diameter	Hole distance				Outer diameter	Inner diameter	Outer diameter	Inner diameter				Hole distance	Hole diameter				Hole distance	Hole diameter										
L	n1x1	a1	δ	-	d3	-	L1	S	d9	d10	a2	mxd2	>d4	L6	L2	d	L3	L5	d5	d6	a6	a5	n2xd8	δ 2	d7	-	2585	FVEDBRL7525	
FVEDBRL-750/2500-4	9780	4x18	50	100x100	20	-	700	-	700	800	750	16x24	520	248.5	2270	560	400	420	230	40	90	80	45	20	4x14	20	-	2585	FVEDBRL7525

Note: Product dimension are the recommended size, and the key making dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.



72.5-126kV RIF Dry-type Capacitive Porcelain Transformer Bushing ( Draw Lead Type)

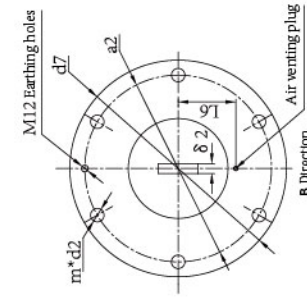
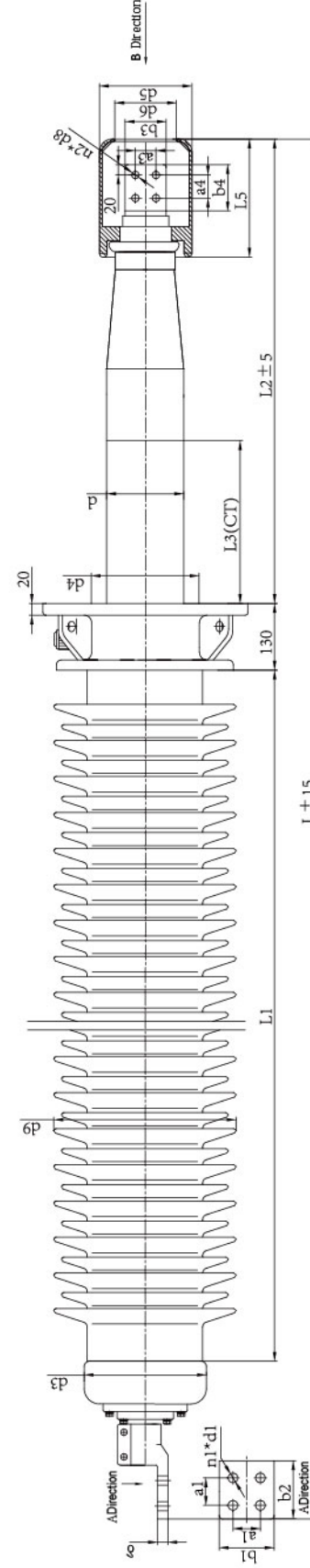


Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	72.5kV 126kV
Rated current	630-1250A
1 min power frequency dry voltage withstand	155kV 255kV
Full-wave impulse withstand voltage of lightning	325kV 550kV
Under 1.5 highest phase voltage tan δ	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	3150N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Wiring terminal			Cable entry length	Head diameter	Compound external insulation			Flange					Total length of immersed part	The outer diameter of immersed part	Balancing voltage ball	Inner diameter of conduct tube	Product code							
	Hole number and diameter	Hole distance	Flange surface			Flange thickness	Used connection structure	Insulation distance	Normal creepage distance	Maximum external diameter	Outer diameter of insulator plug	Center distance of insulator hole	Hole number of insulator diameter						Inner diameter of insulator surface	Center distance of vent hole	Total length of immersed part	The outer diameter of immersed part	Flange diameter	Flange thickness	Flange surface
L	n1xd1	a1	b1xb2	δ	L4	d3	d8	d8	L1	S	d9	d7	a2	mx2	>d4	L6	L2	d	L3	L5	d5	d6	d6	kg	
CVEBRL-72.5/630-4	1910	4x14	40	80x80	10	1660	190	28	700	2250	294	325	280	6x20	160	78	790	116	400	60	110	40	97		CVEBRL0606
CVEBRL-72.5/1250-4	1915	4x18	50	100x100	13	1660	190	32	700	2250	294	325	280	6x20	160	78	790	116	400	60	110	40	88		CVEBRL0612
CVEBRL-126/630-4	2470	4x14	40	80x80	10	2220	223	28	1140	3910	338	400	350	6x24	180	90	900	148	400	60	120	40	196		CVEBRL1106
CVEBRL-126/1250-4	2475	4x18	50	100x100	13	2220	223	32	1140	3910	338	400	350	6x24	180	90	900	148	400	60	120	40	187		CVEBRL1112

Note: Product dimension are the recommended size, and the key making dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are charged depend on the change of CT length.

72.5-126kV RIF Dry-type Capacitive Porcelain Transformer Bushing ( Current Carrying Type)



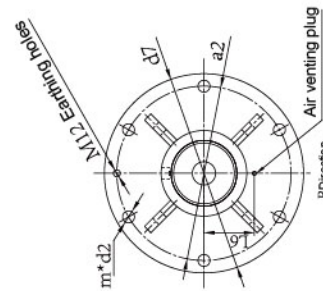
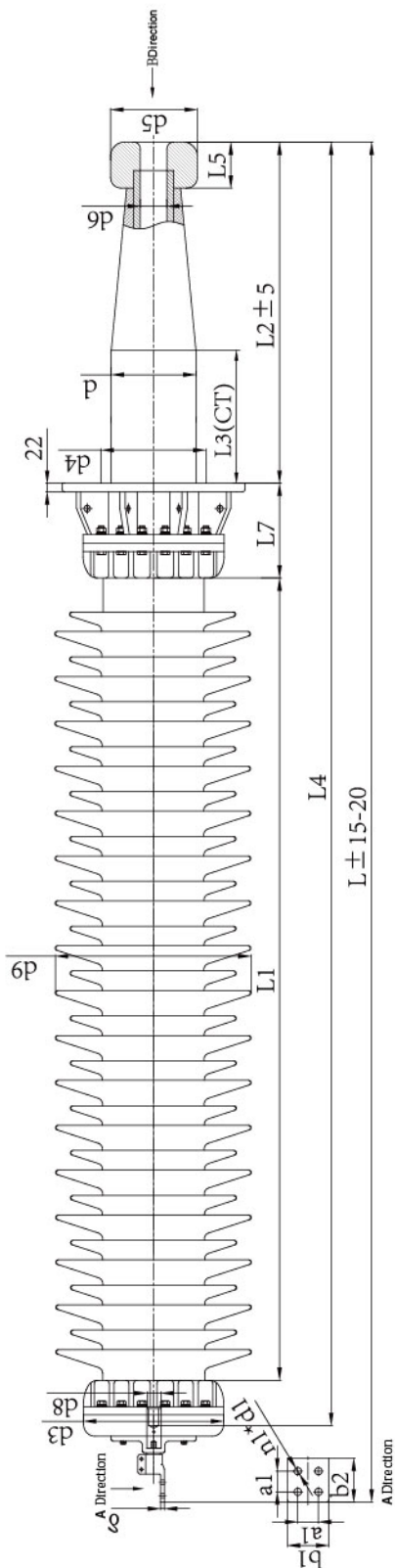
Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	72.5kV 126kV
Rated current	1600-3150A
1 min power frequency dry voltage withstand	155kV 255kV
Full-wave impulse withstand voltage of lightning	325kV 550kV
Under 1.5 highest phase voltage tan δ	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	2000-4000N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Wiring terminal			Head diameter	Compound external insulation			Flange					Total length of immersed part	The diameter of immersed body in oil	Total length of oil immersed part	Balancing voltage ball	Wiring terminal in oil			Product code						
	Hole number and diameter	Hole distance	Flange surface		Flange thickness	Used connection structure	Insulation distance	Normal creepage distance	Maximum external diameter	Outer diameter of insulator plug	Center distance of insulator hole	Hole number of insulator diameter					Inner diameter of insulator surface	Center distance of vent hole	Total length of immersed part		The diameter of immersed body in oil	Total length of oil immersed part	Hole distance	Hole number and diameter	Flange thickness	Weight
L	n1xd1	a1	b1xb2	δ	L4	d3	d8	d8	L1	S	d9	d7	a2	mx2	≥d4	L6	L2	d	L3	L5	d5	d6	d6	kg		
CVEBRL-72.5/1600-4	2105	4x18	50	100x100	16	208	700	2250	320	400	350	6x24	180	82	960	135	400	230	180	120	180	45	2x14	20		CVEBRL0616
CVEBRL-72.5/2000-4	2125	4x18	50	100x100	16	208	700	2250	320	400	350	6x24	180	82	980	135	400	250	180	120	180	45	4x14	20		CVEBRL0620
CVEBRL-72.5/2500-4	2125	4x18	50	100x100	20	208	700	2250	320	400	350	6x24	180	82	980	135	400	250	180	120	180	45	4x14	20		CVEBRL0625-07
CVEBRL-126/1600-4	2660	4x18	50	100x100	16	238	1140	3910	355	400	350	6x24	180	95	1070	162	400	230	180	120	180	45	2x14	20		CVEBRL1116-03
CVEBRL-126/2000-4	2675	4x18	50	100x100	16	238	1140	3910	355	400	350	6x24	180	95	1090	162	400	250	180	120	180	45	4x14	20		CVEBRL1120-07
CVEBRL-126/2500-4	2675	4x18	50	100x100	20	238	1140	3910	355	400	350	6x24	180	95	1090	162	400	250	180	120	180	45	4x14	20		CVEBRL1125-06

Note: Product dimension are the recommended size, and the key making dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are charged depend on the change of CT length.



145-170kV RIF Dry-type Capacitive Porcelain Transformer Bushing

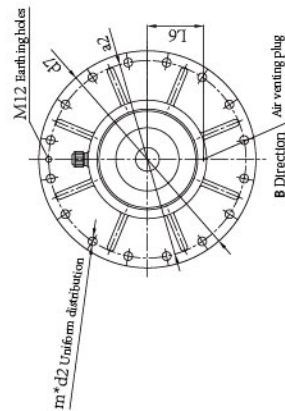
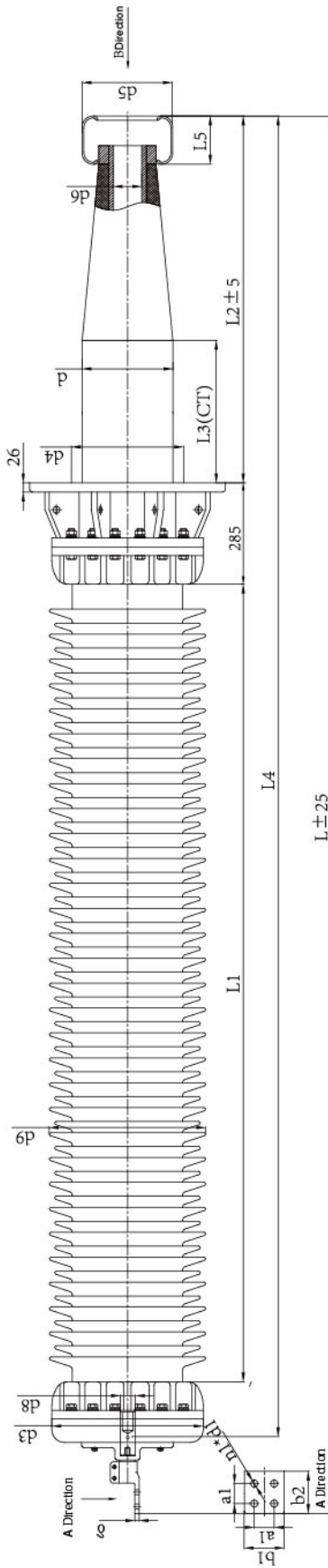


Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	145kV 170kV
Rated current	630-1250A
1 min power frequency dry voltage withstand	305 (275) kV 355 (325) kV
Full-wave impulse withstand voltage of lightning	650kV 750kV
Under 1.5 highest phase voltage tan δ	≤ 0.005
Power factor charge under rated voltage	≤ 10pC
Bending test load	3150N
Minimum nominal creepage distance	31mm/kV

Main dimension (m.m.)	Wing terminal		Cable entry length	Head diameter	Compound external insulation		Outer diameter of flange	Center distance of insulation rib	Hole number and diameter	Flange	Center distance of vent hole	The diameter of insulator part	Total length of insulator part	Balancing voltage bush	Inner diameter of conduct tube	Weight	Product code									
	Type	Hole number and diameter			Hole distance	Panel surface												Panel thickness	Lead connection aperture	Insulation distance	Nominal creepage distance	Maximum umbrella diameter	Flange	Inner diameter of vent hole	Center distance of vent hole	Inner diameter of insulator part
CVEBR-145/630-4	L	n1xd1	a1	b1xb2	6	L4	d3	d8	d8	L1	S	d9	d7	a2	mxd2	L7	>d4	L6	L2	d	L3	L5	d5	d6	kg	CVEBR1406
CVEBR-145/630-4	2650	4x14	40	80x80	10	2420	345	28	1360	4495	350	400	350	350	6x24	215	200	95	710	162	0	90	140	40	40	CVEBR1406
CVEBR-145/630-4	3010	4x14	40	80x80	10	2780	345	28	1360	4495	350	400	350	350	6x24	215	200	95	1070	162	400	90	140	40	40	CVEBR1412
CVEBR-145/1250-4	2655	4x18	50	100x100	13	2420	345	32	1360	4495	350	400	350	350	6x24	215	200	95	710	162	0	90	140	40	40	CVEBR1412
CVEBR-145/1250-4	3015	4x18	50	100x100	13	2780	345	32	1360	4495	350	400	350	350	6x24	215	200	95	1070	162	400	90	140	40	40	CVEBR1412
CVEBR-170/630-4	2990	4x14	40	80x80	10	2750	345	28	1600	5270	380	400	350	350	6x24	235	230	110	800	186	0	90	140	40	40	CVEBR1706
CVEBR-170/630-4	3380	4x14	40	80x80	10	3130	345	28	1600	5270	380	400	350	350	6x24	235	230	110	1170	186	400	90	140	40	40	CVEBR1706
CVEBR-170/1250-4	2995	4x18	50	100x100	13	2750	265	32	1600	5270	380	400	350	350	6x24	235	230	110	800	186	0	90	140	40	40	CVEBR1712
CVEBR-170/1250-4	3365	4x18	50	100x100	13	3130	265	32	1600	5270	380	400	350	350	6x24	235	230	110	1170	186	400	90	140	40	40	CVEBR1712

Note: Product dimension are the recommended size, and the key making dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table. CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.

252kV RIF Dry-type Capacitive Porcelain Transformer Bushing ( Draw Lead Type)



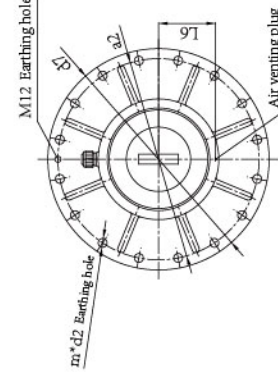
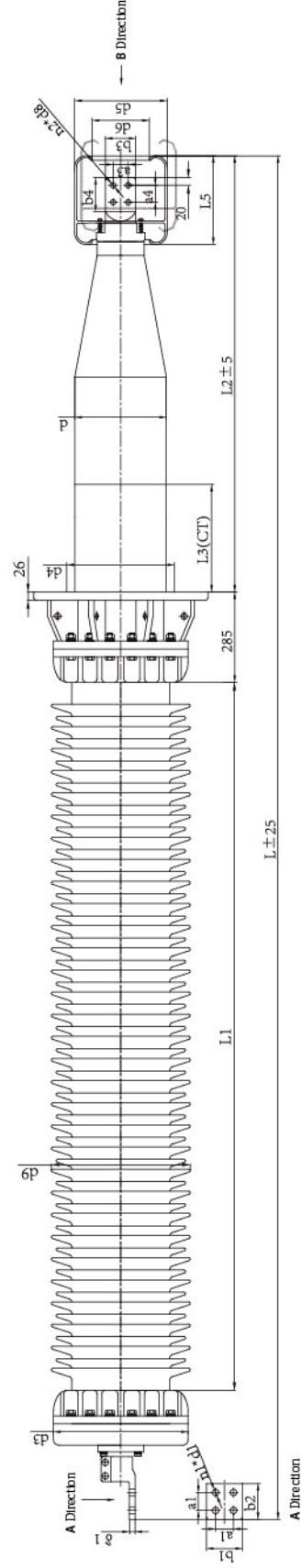
Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	252kV
Rated current	630-1600A
1 min power frequency dry voltage withstand	505 (460) kV
Full-wave impulse withstand voltage of lightning	1050kV
50% SIL withstand voltage	850kV
Under 1.5 highest phase voltage tan δ	≤ 0.005
Power factor charge under rated voltage	≤ 10pC
Bending test load	4000N
Minimum nominal creepage distance	31mm/kV

Main dimension (m.m.)	Wing terminal		Cable entry length	Head diameter	Compound external insulation		Outer diameter of flange	Center distance of insulation rib	Hole number and diameter	Flange	Center distance of vent hole	The diameter of insulator part	Total length of insulator part	Balancing voltage bush	Inner diameter of conduct tube	Weight	Product code								
	Type	Hole number and diameter			Hole distance	Panel surface												Panel thickness	Lead connection aperture	Insulation distance	Nominal creepage distance	Maximum umbrella diameter	Flange	Inner diameter of vent hole	Center distance of vent hole
CVEBR-252/630-4	L	n1xd1	a1	b1xb2	6	L4	d3	d8	d8	L1	S	d9	d7	a2	mxd2	>d4	L6	L2	d	L3	L5	d5	d6	kg	CVEBR2206
CVEBR-252/630-4	4240	4x14	40	80x80	10	4010	425	28	2240	7820	440	550	500	500	16x22	300	142	1330	255	400	130	245	60	750	CVEBR2212
CVEBR-252/1250-4	4245	4x18	50	100x100	13	4010	425	32	2240	7820	440	550	500	500	16x22	300	142	1330	255	400	130	245	60	751	CVEBR2212
CVEBR-252/1600-4	4265	4x18	50	100x100	16	4010	425	35	2240	7820	440	550	500	500	16x22	300	142	1330	255	400	130	245	60	755	CVEBR2216

Note: Product dimension are the recommended size, and the key making dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table. CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.



252kV RIF Dry-type Capacitive Porcelain Transformer Bushing ( Current Carrying Type)

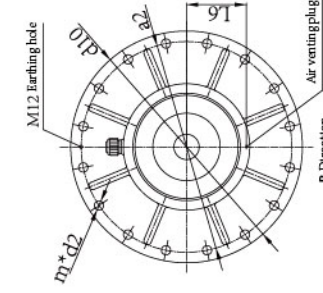
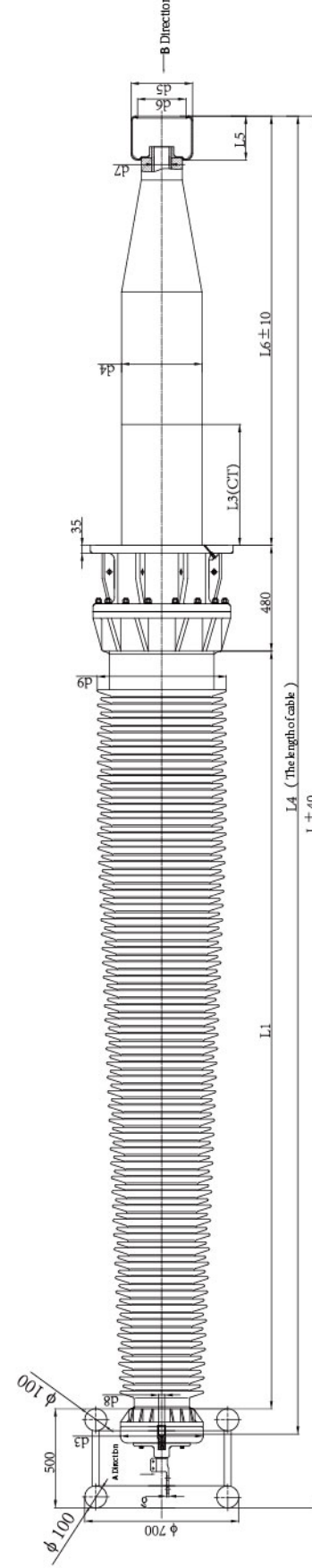


Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	252kV
Rated current	1600-3150A
1 min power frequency dry voltage withstand	505 (460) kV
Full-wave impulse withstand voltage of lightning	1050kV
SL withstand voltage	850kV
Under 1.5 highest phase voltage tan delta	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	4000-5000N
Minimum nominal creepage distance	31mmkV

Main dimension (mm)	Wing terminal		Compound external insulation		Flange		Total length of immersed part		The total length of immersed part		Balancing valve ball		Wing terminal in oil		Weight	Product code												
	Hole number diameter	Hole distance	Panel surface	Panel thickness	Head diameter	Head length	Center distance	Outer diameter	Inner diameter	Center distance	Outer diameter	Inner diameter	Center distance	Outer diameter			Hole number diameter	Hole distance	Panel surface	Panel thickness								
Type	n1xd1	a1	b1xb2	δ	d3	L1	S	d8	d7	a2	a2	md2	≥d4	L6	L2	d	L3	L5	d5	d6	b3	b4	a3	a4	n2xd8	δ2	kg	
CVEDBRL-252/1600-4	4x18	50	100x100	16	425	2240	8580	440	550	500	142	1450	255	400	250	260	200	200	200	200	65	90	45	2x14	20	CVEDBRL2216		
CVEDBRL-252/2000-4	4x18	50	100x100	16	425	2240	8580	440	550	500	142	1450	255	400	250	260	200	200	200	200	80	90	40	4x14	20	CVEDBRL2220		
CVEDBRL-252/2500-4	4x18	50	100x100	20	425	2240	8580	440	550	500	142	1450	255	400	250	260	200	200	200	200	80	90	40	4x14	20	CVEDBRL2225		

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.

363kV RIF Dry-type Capacitive Porcelain Transformer Bushing



Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	363kV
Rated current	630A
1 min power frequency dry voltage withstand	625 (535) kV
Full-wave impulse withstand voltage of lightning	1175kV
SL withstand voltage	950kV
Under 1.5 highest phase voltage tan delta	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	5000N
Minimum nominal creepage distance	31mmkV

Main dimension (mm)	Wing terminal		Compound external insulation		Flange		Total length of immersed part		The total length of immersed part		Balancing valve ball		Wing terminal in oil		Weight	Product code														
	Hole number diameter	Hole distance	Panel surface	Panel thickness	Head diameter	Head length	Center distance	Outer diameter	Inner diameter	Center distance	Outer diameter	Inner diameter	Center distance	Outer diameter			Hole number diameter	Hole distance	Panel surface	Panel thickness										
Type	n1xd1	a1	b1xb2	δ	d3	L1	S	d8	d9	a2	a2	md2	>d4	L6	L2	d	L3	L5	d5	d6	b3	b4	a3	a4	n2xd8	δ2	kg			
CVEBRL-363/630-4	4x18	50	100x100	20	6340	375	28	3740	13000	587	650	600	16x24	400	195	2000	365	600	200	280	195	d7	d7	70	70	70	70	CVEBRL3906		

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.







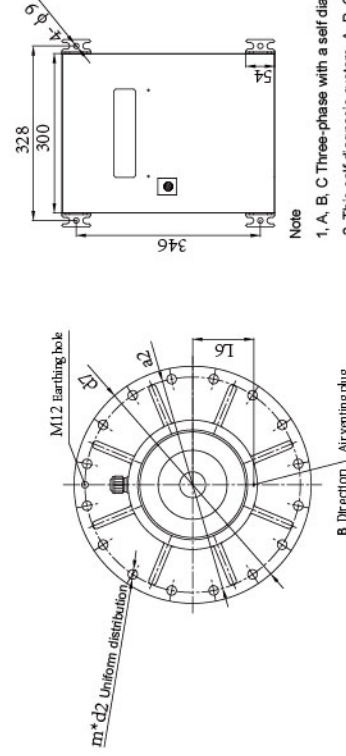
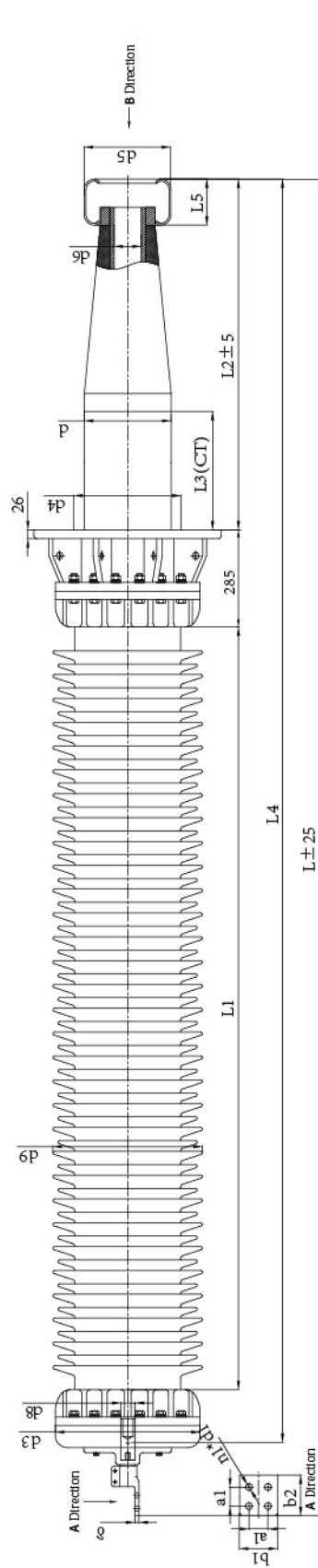








252kV Self Diagnosis RIF Dry-type Capacitive Porcelain Transformer Bushing ( Draw Lead Type)



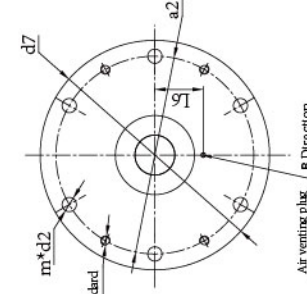
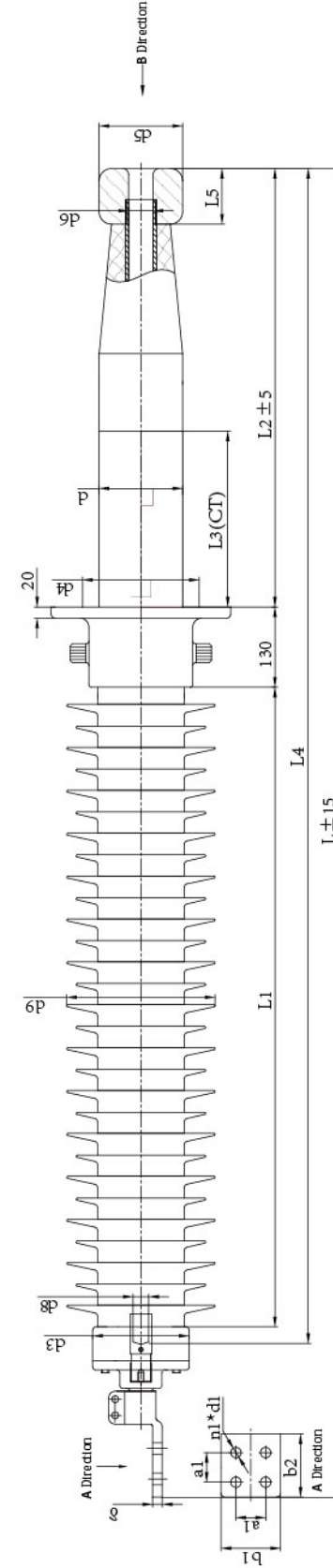
Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	252kV
Rated current	630-1600A
1 min power frequency dry voltage withstand	505kV
Full-wave impulse withstand voltage of lightning	1050kV
SIL withstand voltage	850kV
Under 1.5 highest phase voltage	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	1250-4000N
Minimum nominal creepage distance	31mm/kV

- Note
1. A, B, C Three-phase with a self diagnostic intelligent box;
  2. This self diagnosis system, A, B, C three-phase sharing;
  3. Intelligent box needs external AC220V power supply

Main dimension (mm)	Wing terminal		Cable entry length	Head diameter	Compound external insulation		Flange		Total length of immersed part	The diameter of main body of immersed part	Total length of immersed part	Balancing voltage ball	Inner diameter of conduct tube	Weight	Product code								
	Hole diameter	Hole distance			Insulation distance	Creepage distance	Hole number and diameter	Center distance of hole								Outer diameter of pole	Max diameter of umbrella	Max diameter of hole	Max diameter of hole	Max diameter of hole			
Type	n1xd1	a1	b1xb2	δ	L1	S	d7	a2	mx2	≥d4	L6	L2	d	L3	L5	d5	d6	kg					
NCVEBR-252/630-4	4240	4x14	40	80x80	10	4010	4.25	28	2240	7820	440	550	500	16x22	300	142	1330	255	400	130	245	60	NCVEBR12206
NCVEBR-252/1250-4	4245	4x18	50	100x100	13	4010	4.25	32	2240	7820	440	550	500	16x22	300	142	1330	255	400	130	245	60	NCVEBR12212
NCVEBR-252/1600-4	4265	4x18	50	100x100	16	4010	4.25	36	2240	7820	440	550	500	16x22	300	142	1330	255	400	130	245	60	NCVEBR12216

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length

126kV Intelligent RIF/GFRP Dry-type Capacitive Composite Transformer Bushing ( Draw Lead Type)



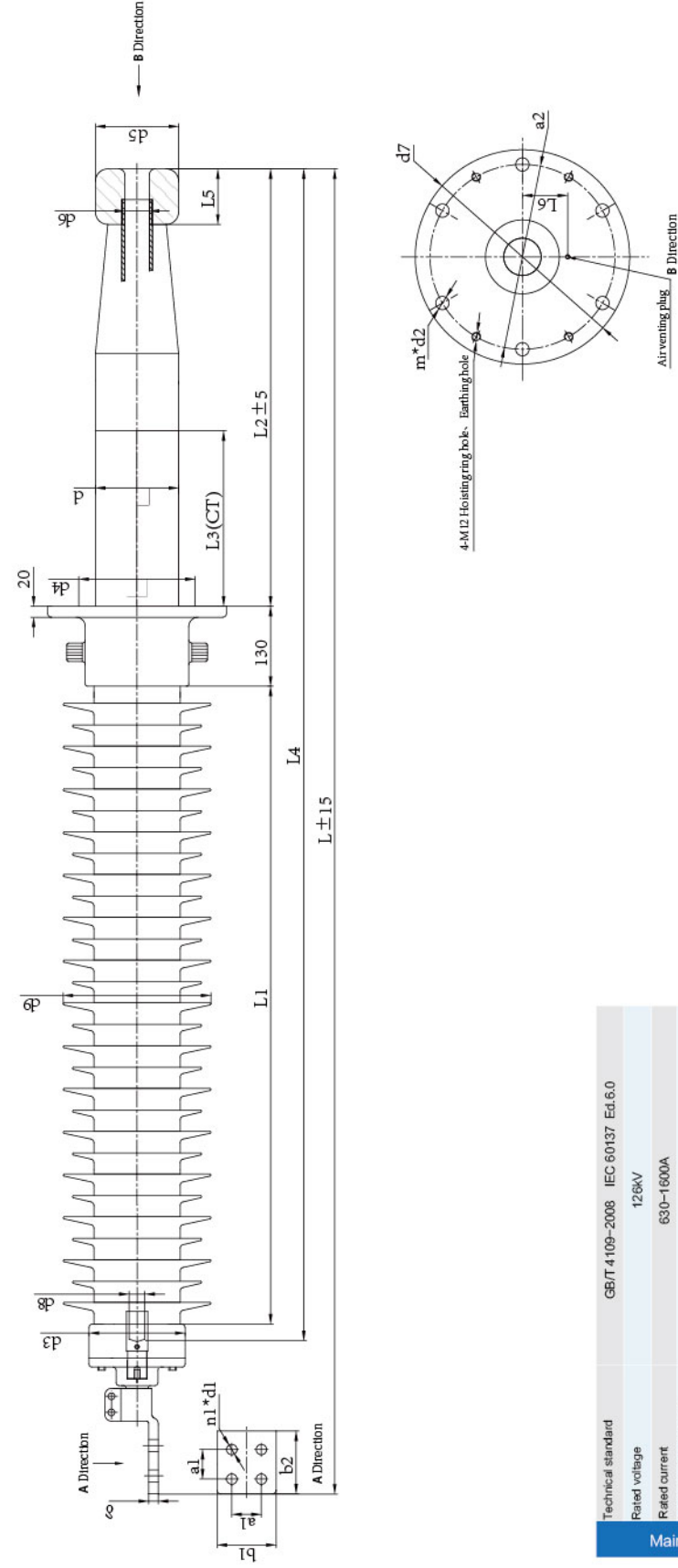
Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	126kV
Rated current	630-1600A
1 min power frequency dry voltage withstand	230/250kV
Full-wave impulse withstand voltage of lightning	460/550kV
Under 1.5 highest phase voltage	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	2000-3150N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Wing terminal		Cable entry length	Head diameter	Compound external insulation		Flange		Total length of immersed part	The diameter of main body of immersed part	Total length of immersed part	Balancing voltage ball	Inner diameter of conduct tube	Weight	Product code								
	Hole diameter	Hole distance			Insulation distance	Creepage distance	Hole number and diameter	Center distance of hole								Outer diameter of pole	Max diameter of umbrella	Max diameter of hole	Max diameter of hole				
Type	n1xd1	a1	b1xb2	δ	L1	S	d7	a2	mx2	>d4	L6	L2	d	L3	L5	d5	d6	kg					
ZFEBR-126/630-4	2150	4x14	40	80x80	10	1920	184	28	1150	3930	298	400	350	6x24	200	96	600	162	0	60	120	40	ZFB1106
ZFEBR-126/630-4	2450	4x14	40	80x80	10	2235	184	28	1150	3930	298	400	350	6x24	200	96	900	162	400	60	120	40	ZFB1106
ZFEBR-126/1250-4	2155	4x18	50	100x100	13	1935	184	32	1150	3930	298	400	350	6x24	200	96	600	162	0	60	120	40	ZFB1112
ZFEBR-126/1250-4	2455	4x18	50	100x100	13	2235	184	32	1150	3930	298	400	350	6x24	200	96	900	162	400	60	120	40	ZFB1112

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length



126kV Intelligent RIF Dry-type Capacitive Composite Transformer Bushing ( Draw Lead Type)

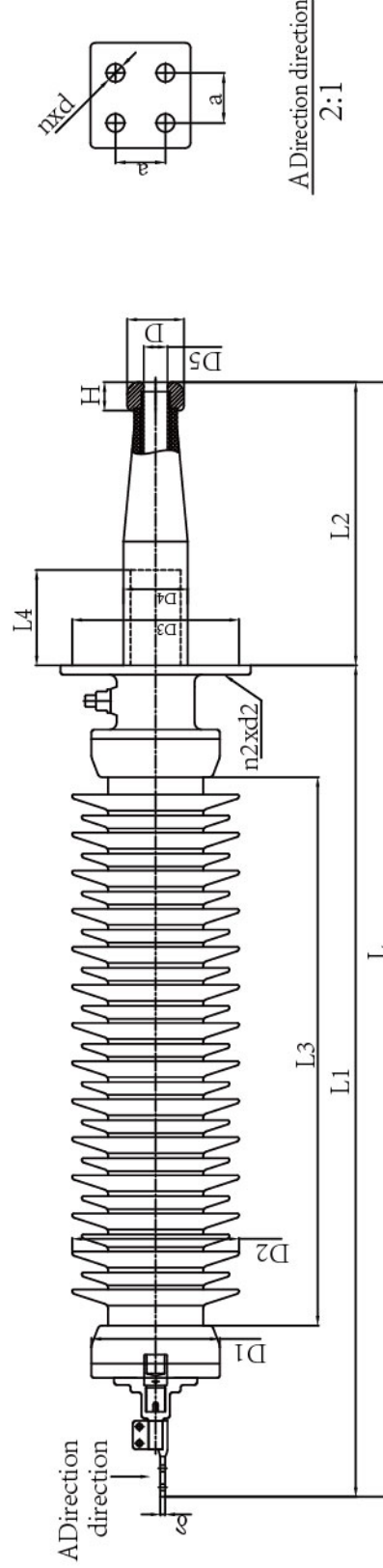


Main Performance	
Technical standard	GB/T 4109-2008 IEC 60137 Ed.6.0
Rated voltage	126KV
Rated current	630-1600A
1 min power frequency dry voltage withstand	230/250kV
Full-wave impulse withstand voltage of lightning	460/550kV
Under 1.5 highest phase voltage tanδ	≤ 0.005
Partial discharge under rated voltage	≤ 10pC
Bending test load	2000-3150N
Minimum nominal creepage distance	31mm/kV

Main dimension (mm)	Type	Wing terminal		Cable entry length	Head diameter	Lead connect aperture	Compound external insulation			Flange			The total length of immersed part	Balancing voltage ball	Inner diameter of conduct tube	Weight	Product code					
		Hole number and diameter	Hole distance				Hole thickness	Head diameter	Normal creepage distance	Insulation distance	Order diameter of flange	Order diameter of hole						Hole diameter and diameter	Center distance of vent hole	Center distance of vent hole	Center distance of vent hole	L3
L	n1xd1	a1	b1xb2	δ	L4	d3	d8	L1	S	d8	d7	a2	mx2d2	>d4	L6	L2	L3	L5	d5	d6	kg <td>ZFVEBR1106</td>	ZFVEBR1106
2150	4x14	40	80x80	10	1920	184	28	1150	3930	298	400	350	6x24	200	96	600	162	0	60	120	40	ZFVEBR1106
2450	4x14	40	80x80	10	2235	184	28	1150	3930	298	400	350	6x24	200	96	900	162	0	60	120	40	ZFVEBR1106
2155	4x18	50	100x100	13	1935	184	32	1150	3930	298	400	350	6x24	200	96	600	162	0	60	120	40	ZFVEBR1112
2455	4x18	50	100x100	13	2235	184	32	1150	3930	298	400	350	6x24	200	96	900	162	0	60	120	40	ZFVEBR1112

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.

RIP Dry-type Composite Transformer Bushing ( Draw Lead Type)



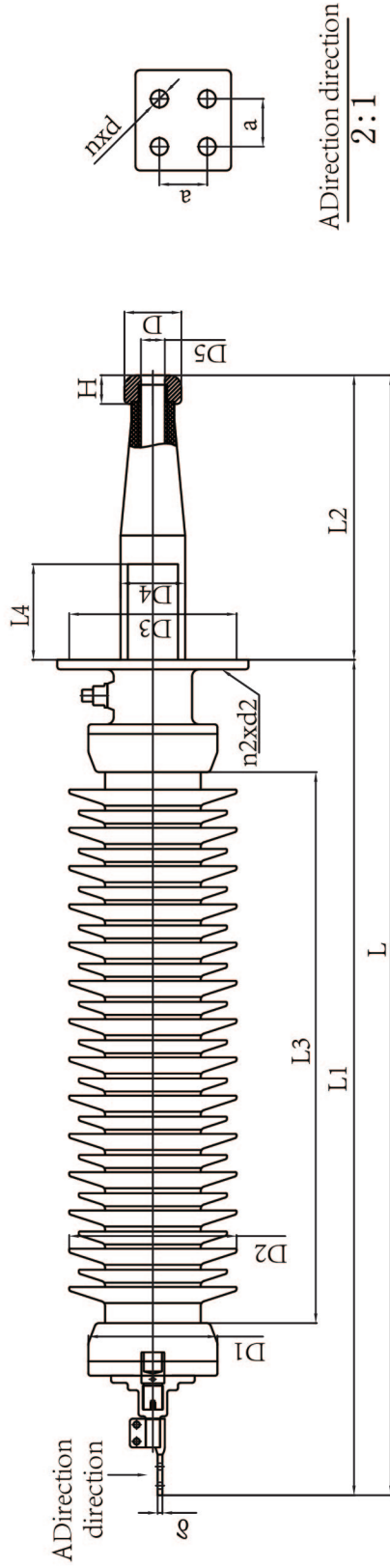
Main dimension (mm)	Type	Wing terminal		Compound external insulation			Range		Total length of oil immersed part	The diameter of main body in oil	Min earthing length in oil	Balancing voltage ball	Weight			
		Hole number and diameter	Hole distance	Hole thickness	Head diameter	Normal creepage distance	Insulation distance	Order diameter of flange						Order diameter of hole	Hole diameter and diameter	Center distance of main body
L	n1xd1	a	b	D1	L3	S	D2	D3	n2xd2	L2	D4	D5	L4	H	D	kg
900	4x14	40	8	185	425	750	288	185	6x15	260	92	35	100			
1050	4x14	40	8	185	430	1020	288	185	6x15	250	92	35	50			
1960	4x14	40	10	240	700	2250	288	280	6x18	690	100	38	400			
1960	4x18	50	13	270	700	2250	314	280	6x18	690	120	60	400			
2577	4x14	40	10	240	1152	3390	314	350	6x24	820	110	38	410			
2620	4x18	50	13	270	1152	3916	340	350	6x24	840	135	60	400			
2763	4x18	50	13	270	1235	4495	350	350	6x24	900	141	60	400			
2833	4x14	40	10	300	1487	5800	380	350	6x24	1000	170	60	400			
2853	4x18	50	13	300	1487	5800	380	350	6x24	1000	170	60	400			
4825	4x14	40	10	380	2142	6930	424	680	12x19	1880	220	60	750	110	170	
4030	4x18	50	13	380	2142	7820	443	500	12x24	1240	220	60	750	130	240	
6330	4x14	40	10	450	3720	12390	500	660	12x24	1800	282	60	500	190	290	
6350	4x18	50	13	450	3720	12390	500	660	12x24	1800	282	60	500	190	290	
6810	4x14	40	10	500	4180	11550	470	500	12x24	1820	328	60	600			
6640	4x18	50	13	500	4180	14322	562	500	12x18	1650	328	60	430			

Main Performance	
Technical standard	GB/T 4109-2008 IEC60137 Ed.6.0
Rated voltage	126KV
Rated current	630-1250A
1 min power frequency dry voltage withstand	255 ( 230 ) KV
Full-wave impulse withstand voltage of lightning	550KV
Under 1.5 highest phase voltage tanδ	≤ 0.004
Partial discharge under rated voltage	≤ 10pC
Bending test load	2000-3150N
Minimum nominal creepage distance	31mm/kV

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size.



RIP Dry-type Porcelain Transformer Bushing ( Draw Lead Type)

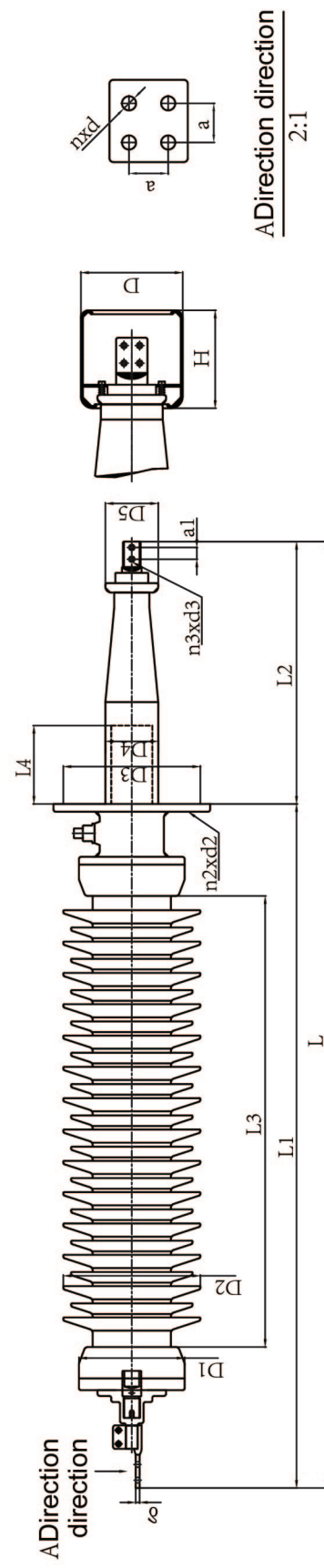


Main dimension ( m m ) Type	Wing terminal		Compound external insulation			Flange		Total length of main part immersed in oil	The diameter of main body immersed in oil	Total length of main part immersed in oil	Min earthing length in oil	Balancing voltage ball		Weight
	Hole number and diameter	Hole distance	Head diameter	Normal insulation distance	Maximum creepage distance	Center distance	Hole diameter					D	H	
CET-24/630	4x14	40	8	425	750	288	185	6x15	260	92	35	100		
CET-40.5/630	4x14	40	8	430	1020	288	185	6x15	250	92	35	50		
CET-72.5/630	4x14	40	10	700	2250	288	280	6x18	690	100	38	400		
CET-126/1250	4x18	50	13	700	2250	314	280	6x18	690	120	60	400		
CET-126/630	4x14	40	10	1152	3390	314	350	6x24	820	110	38	410		
CET-126/1250	4x18	50	13	1152	3916	340	350	6x24	840	135	60	400		
CET-145/1250	4x18	50	13	1235	4495	350	350	6x24	900	141	60	400		
CET-170/630	4x14	40	10	300	1487	5800	380	6x24	1000	170	60	400	110	170
CET-170/1250	4x18	50	13	300	1487	5800	380	6x24	1000	170	60	400	110	170
CET-252/630	4x14	40	10	380	2142	6930	424	6x18	1880	220	60	750	130	240
CET-252/1250	4x18	50	13	380	2142	7820	443	6x18	1880	220	60	750	130	240
CET-363/630	4x14	40	10	450	3720	12380	500	6x24	1800	282	60	500	190	290
CET-363/1250	4x18	50	13	450	3720	12380	500	6x24	1800	282	60	500	190	290
CET-420/630	4x14	40	10	500	4180	11550	470	6x24	1820	328	60	600		
CET-420/1250	4x18	50	13	500	4180	14322	562	6x24	1650	328	60	430		

Main Performance	
Technical standard	GB/T4109-2008 IEC60137 Ed.6.0
Rated voltage	126KV
Rated current	630-1250A
1 min power frequency dry voltage withstand	255 (230) KV
Full-wave impulse withstand voltage of lightning	550KV
Under 1.5 highest phase voltage tan δ	≤ 0.004
Partial discharge under rated voltage	≤ 10 pC
Bending test load	2000-3150N
Minimum nominal creepage distance	31mm/KV

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size. Only one kind of CT length is listed in this table. CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4), Total length (L) are changed depend on the change of CT length.

RIP Dry-type Composite Transformer Bushing ( Current Carrying Type)



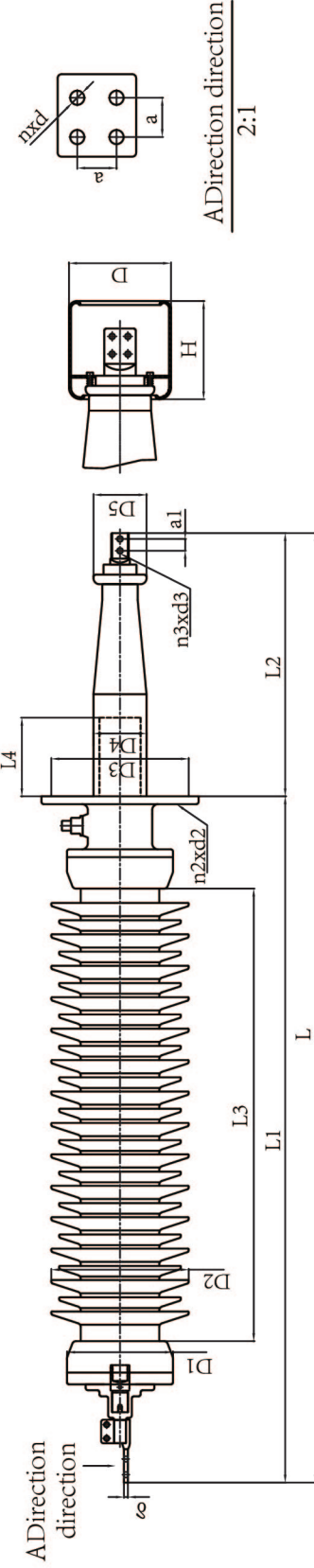
Main dimension ( m m ) Type	Wing terminal		Compound external insulation			Flange		Total length of main part immersed in oil	The diameter of main body immersed in oil	Total length of oil immersed part	Wing terminal in oil		Balancing voltage ball	Weight
	Hole number and diameter	Hole distance	Head diameter	Normal insulation distance	Maximum creepage distance	Center distance	Hole diameter				D	H		
FET-24/2500	4x14.5	45	20	300	650	314	250	2x18	280	135	40	8x15	50	
FET-24/3150	4x14.5	45	20	300	650	314	250	2x18	280	135	40	8x15	50	
FET-40.5/1250	4x18	50	10	510	1260	288	185	2x13	335	100	40	6x15	50	
FET-40.5/1600	4x18	50	16	510	1260	288	185	2x13	335	100	40	6x15	50	
FET-40.5/2500	4x14.5	45	20	700	1980	314	250	2x18	530	135	40	8x15	300	
FET-40.5/3150	4x18	45	20	700	1980	314	250	2x18	480	135	40	8x15	150	
FET-72.5/1250	4x18	50	16	700	2010	314	185	2x14	880	106	40	6x16	400	220
FET-72.5/1600	4x18	50	16	700	1980	314	185	2x14	680	106	40	6x16	200	150
FET-126/1600	4x18	60	16	1152	3390	340	350	2x13	790	150	40	6x24	300	175
FET-126/2000	4x18	60	16	1152	3390	340	350	2x13	1160	150	40	6x24	500	220
FET-145/1250	4x18	50	10	1235	4495	350	350	2x13	1100	170	40	6x24	500	175
FET-145/2000	4x18	60	13	1235	4495	350	350	2x13	1100	170	40	6x24	500	175
FET-170/1600	4x18	60	13	1487	5800	380	400	2x13	1150	190	40	6x24	500	175
FET-170/2000	4x18	60	13	1487	5800	380	400	2x13	1150	190	40	6x24	500	175
FET-252/1250	4x14	40	13	380	2142	6630	443	500	2x14	1045	44.5	12x24	430	250
FET-363/1600	4x18	60	15	420	3720	13013	485	660	2x14	1600	40	12x24	500	290
FET-363/2000	4x18	60	15	420	3720	13013	485	660	2x14	1600	40	12x24	500	290
FET-420/1250	4x18	60	15	420	4180	14755	562	660	2x14	1615	40	12x24	500	

Main Performance	
Technical standard	GB/T4109-2008 IEC60137 Ed.6.0
Rated voltage	126KV
Rated current	630-1250A
1 min power frequency dry voltage withstand	255 (230) KV
Full-wave impulse withstand voltage of lightning	550KV
Under 1.5 highest phase voltage tan δ	≤ 0.004
Partial discharge under rated voltage	≤ 10 pC
Bending test load	2000-3150N
Minimum nominal creepage distance	31mm/KV

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size.



RIP Dry-type Porcelain Transformer Bushing ( Current Carrying Type)

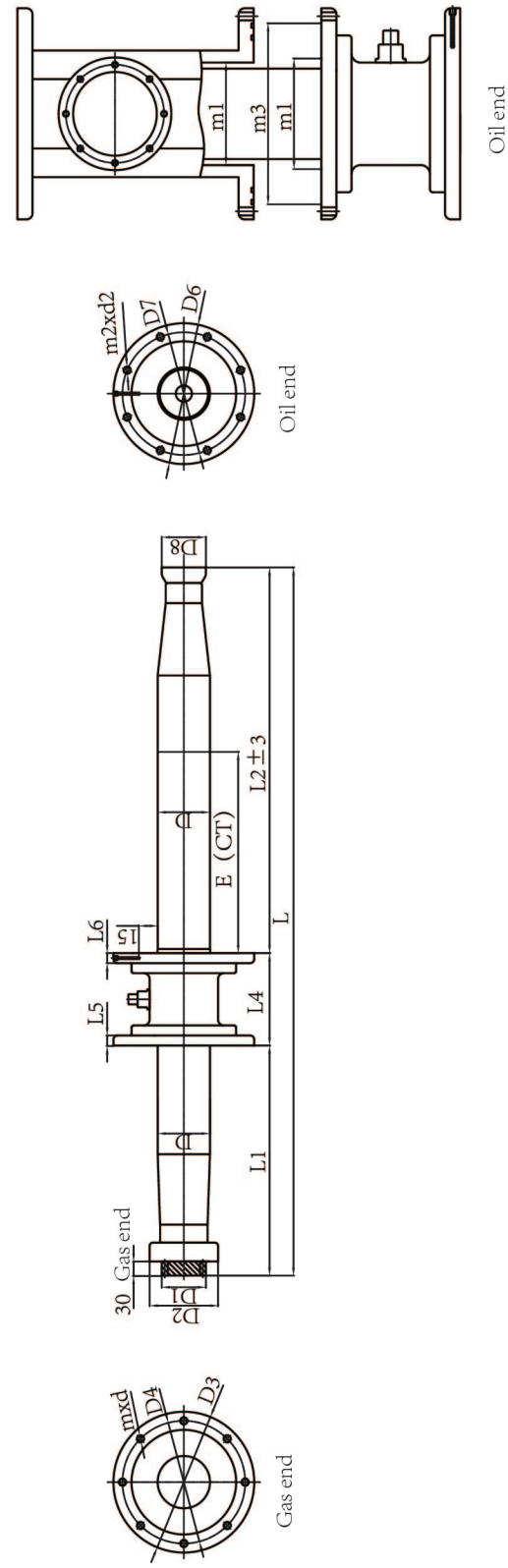


Main dimension ( m.m )	Wiring terminal		Compound external insulation			Flange		Total length of oil immersed part in oil	The total number of oil immersed part in oil	Total length of oil immersed part in oil	Wiring terminal in oil		Hole number and diameter	Balancing voltage ball	Weight kg
	Hole number and diameter	Panel distance	Head diameter	Insulation distance	Normal distance	Maximum distance	Center distance				Hole number and diameter	Hole distance			
CET-24/2500	1050	4x14.5	20	210	300	650	314	250	2x18	280	132	135	50		
CET-24/3150	1050	4x14.5	20	210	300	650	314	250	2x18	280	132	135	50		
CET-40.5/1250	1215	4x18	50	185	510	1260	288	185	2x13	335	92	100	50		
CET-40.5/1600	1215	4x18	50	185	510	1260	288	185	2x13	335	92	100	50		
CET-40.5/2500	1700	4x14.5	45	210	700	1980	314	250	2x18	530	132	135	300		
CET-40.5/3150	1650	8x18	45	210	700	1980	314	250	2x18	480	132	135	150		
CET-72.5/1250	1990	4x18	50	16	700	2010	314	185	2x14	880	106		220	150	
CET-72.5/1600	1790	4x18	50	16	700	1980	314	185	2x14	680	106		220	150	
CET-126/1600	2840	4x18	60	16	1152	3390	340	350	2x13	790	150		300	175	
CET-126/2000	2960	4x18	60	16	1152	3390	340	350	2x13	1160	150		220	175	
CET-145/1250	2953	4x18	50	10	1235	4495	350	350	2x13	1100	170		220	175	
CET-145/2000	2978	4x18	60	13	1235	4495	350	350	2x13	1100	170		220	175	
CET-170/1600	3028	4x18	60	13	1487	5800	380	400	2x13	1150	190		220	175	
CET-170/2000	3028	4x18	60	13	1487	5800	380	400	2x13	1150	190		220	175	
CET-252/1250	3890	4x14	40	13	380	2142	6630	443	500	2x14	1045	220	430	250	
CET-363/1600	3120	4x18	60	15	420	3720	13013	485	660	2x14	1600	282	500	290	
CET-363/2000	6120	4x18	60	15	420	3720	13013	485	660	2x14	1600	282	500	290	
CET-420/1250	6595	4x18	60	15	420	4180	14755	562	660	2x14	1615	328	500	290	

Main Performance	
Technical standard	GB/T4109-2008 IEC60137 Ed.6.0
Rated voltage	126KV
Rated current	630-1250A
1 min power frequency dry voltage withstand	255 ( 230 ) KV
Full-wave impulse withstand voltage of lightning	550 KV
Under 1.5 highest phase voltage tan δ	≤ 0.004
Partial discharge under rated voltage	≤ 10 pC
Bending test load	2000-3150N
Minimum nominal creepage distance	31mm/KV

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size

RIP Dry-type Oil/SF6 Bushing



Main dimension ( m.m )	Total length of bushing	SF6 end												Oil end						Weight kg		
		L	L1	D	D1	D3	D4	D5	L4	D6	L5	m4	m3	m1	L2	E	L6	D6	D7		D8	m2xd2
ETGD-72.5/630	935	330	124	99	315	285	70	150	70	150	250	250	200	24	16	455	30	20	335	290	170	12x14
ETGD-72.5/2000	1375	330	164	99	365	335	70	150	70	150	250	300	250	24	16	895	400	20	400	350	220	12x14
ETGD-72.5/2500	1375	330	164	99	365	335	70	150	70	150	250	300	250	24	16	895	400	20	400	350	220	12x14
ETGD-72.5/3150	1585	520	144	99	335	305	70	150	70	150	300	280	220	30	16	915	380	20	335	290	170	12x22
ETGD-126/1250	1585	520	114	99	335	305	70	150	70	150	300	280	220	30	16	915	380	20	335	290	170	12x22
ETGD-126/1600	1585	520	114	99	335	305	70	150	70	150	300	280	220	30	16	915	380	20	335	290	170	12x22
ETGD-145/630	1535	520	144	99	335	305	70	150	70	150	300	280	220	30	16	865	330	20	335	290	170	12x22
ETGD-145/1250	1535	520	144	99	335	305	70	150	70	150	300	280	220	30	16	865	330	20	335	290	170	12x22
ETGD-145/2000	1620	520	168	99	335	305	70	150	70	150	300	280	220	30	16	950	300	20	335	290	170	12x22
ETGD-170/1250	1620	520	168	99	335	305	70	150	70	150	300	280	220	30	16	950	300	20	335	290	170	12x22
ETGD-252/630	2005	770	198	139	570	535	110	220	110	220	450	510	450	33	16	1015	360	20	450	400	168	12x20
ETGD-252/1250	2005	770	198	139	570	535	110	220	110	220	450	510	450	33	16	1015	360	20	450	400	168	12x20
ETGD-252/2000	2620	770	198	139	570	535	110	220	110	220	450	510	450	33	16	1630	500	20	450	400	168	12x20
ETGD-252/2500	2375	770	213	139	570	535	110	220	110	220	450	510	450	33	16	1385	560	20	450	400	168	12x20
ETGD-363/630	2890	1050	282	139	690	640	110	200	110	200	540	600	540	35	20	1640	500	25	660	620	290	12x24
ETGD-363/2000	3590	1050	282	139	690	640	110	200	110	200	540	600	540	35	20	2340	700	25	660	620	290	12x24
ETGD-420/2000	2410	1050	329	139	690	640	110	200	110	200	540	600	540	35	20	1160	300	25	660	500	290	12x24
ETGD-550/1250	2680	1050	387	139	690	640	110	200	110	200	540	600	540	35	20	1430	500	25	660	600	290	12x24
ETGD-550/2000	2680	1050	387	139	690	640	110	200	110	200	540	600	540	35	20	1430	500	25	660	600	290	12x24

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size







