



TRANSFORMER BUSHING

NANJING ELECTRIC (GROUP) CO.,LTD
NANJING ELECTRO-CERAMIC FACTORY



DIRECTORY

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COMPANY PROFILE

Nanjing Electric (Group) Co., Ltd. (Nanjing electric-ceramic factory) is the first HV electro-ceramic factory in the industry history of China and it was established in 1936. At present, it is the biggest production base of tempered glass insulator and the national significant technical equipments development and industrialization base. 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 330,000 square meters, construction area of 140,000 square meters, the registered capital is more than 300 million Yuan. At the end of 2011, total number of employees is 1459, 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 total economy and the main products of the enterprise's market share in the domestic leading position in the insulator lightning arrester.

Company's main products are: toughened glass insulator, bushing, high voltage transformer, a high-voltage isolating switch, and high voltage porcelain, porcelain, composite insulators and so on. Among them, toughened glass insulator and bushings are the first and lead the domestic market occupancy as the special products and they are the main export products, which has been over 50 years researched and developed history. The company's products are not only for the domestic electric power construction, railway electrification and other facilities, but also have a considerable number of export, they were exported to sixty countries and regions in the world, annual export sales value of 100 million yuan.

More than half a century, the company researched and developed of a large number of high-tech products, fill the domestic blank, Company made the important contribution for national power construction, especially for Three Gorges project, West-East power transmission project and UHV transmission projects. 1,18 million pieces toughened glass insulators of our company were used in 31 transmission lines of 500kV in Three Gorges project, accounted for the total amount of transmission line insulator and glass insulator for projects 60% and 80%.

In recent years, company closely focus on the national power construction, speeds up the independent innovation and new product development, master the the world's leading core technology in researching and manufacturing toughened glass insulator, and has independent intellectual property rights, promote the national manufacturing level and international competitiveness of our glass insulators. Company for the national 1100 kV UHV AC and + 800 kV UHV DC transmission project construction of independent research and development of 550kN AC and DC insulators are new products, to fill the domestic blank, through national technical appraisal, leading technology products performance reached the international level of similar products. The company is currently the China State Grid Corp, South Power Grid Corp, the largest supplier and the State Power Corporation of South Africa, India and other glass insulator products, is the national grid, China Southern Power Grid with full voltage, the strength grade of AC and DC supply qualified manufacturers of glass insulator. In 2011, 550kN DC glass insulator in State Grid Jinping - South of Jiangsu and China Southern Power Grid of Nuozhadu Hydropower Station - Jiangmen 800kV UHVDC projects are successful, the domestic glass insulator made a major breakthrough in the field of uhv.

In addition, the company in R & D of capacitive bushing products, successfully developed the 800kV, 1100 kV wall bushing and transformer bushing, to fill the domestic blank, to break the foreign monopoly, and the realization of the 800 kV transformer bushing of domestic production and delivery.



Product Introduction

Since 1958 the company produced only the first of oil-paper capacitor bushing, the production experience of fifty years of oil-paper thick insulation product accumulation, formed a solid foundation for my company production of oil-paper capacitor bushing and high voltage transformer. Now the AC power transmission industry production of various types of high voltage bushing is only more than one hundred thousand, accounted for the total number of about 50% online operation. Long-term since the company focus on technology introduction, technology to understand and grasp the relevant paper foreign insulation products manufacturing technology, thus forming a proprietary process their own manufacturing technology. The design parameters, casing index level has reached the advanced level of similar products abroad. In the electrical performance of the product and the insulation margin and even better than foreign products.

From the point of view of adapt the requirement of high reliability of power grid development, our company also launched a new structure of maintenance-free casing, the difference and the modification of the casing at present a large number of production is: the new structure of casing will be free maintenance commitment, control measures and through improved technology and production process of a series of strict, to achieve and ensure the maintenance requirements. The electrical properties of control on the requirements and have greatly improved, new structure of casing in power frequency voltage measurement of PD, PD control measure voltage than GB (or IEC) requirements increase 1.5 times.

Starting from the user's point of view, the overall structure of the product was a series of improvement design, have improved in appearance and usability.

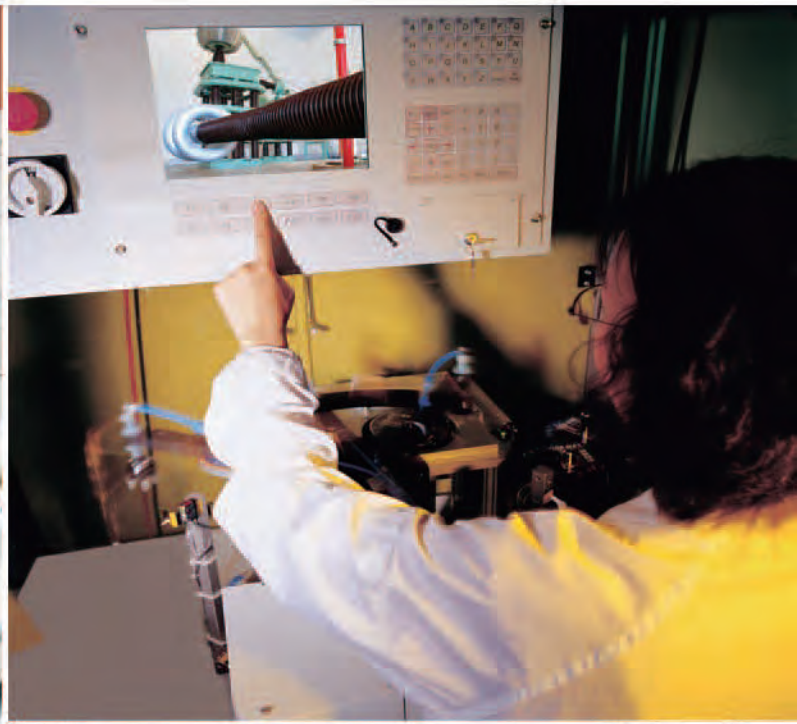
For parts, the classification of the material of the product make acceptance standard and strict technical requirements, to ensure the quality and performance of the final products.

Through the technical renovation project of electrical current completed, improve and perfect the new structure of sleeve (including other casing and transformer products) production equipment and process technology, reduce the influence of human factor in manufacturing process on the quality of the products.

A new architecture for the casing, further improve the level of factory control technology parameters and requirements, strictly the quality of manufactured products.

In addition, our company has in the production casing, resistant to environmental impact ability were improved, including the material used for the environmental invasion (ROT) inhibition ability and porcelain bushing contamination resistance ability. One of the voltage levels on the casing of the porcelain sleeve of creepage distance and the dry arcing distance, not only consider the influence of the porcelain sleeve diameter size factor, the creepage distance directly was modified to increase, also have a certain altitude and pollution influence margin coefficient.







Casing production line technological transformation in recent years.

With the development of China's electric power construction, in recent years the company has maintained a good momentum of development of capacitive bushing. In order to meet the electric power development needs and the user's requirements, the company combined with enterprise restructuring, investment of about 15000000 yuan, from the beginning of 2005, spent two years, the technological transformation of 110kV and 220kV and above capacitor casing production line, the manufacture of transformer bushing technology, vacuum pressure impregnation, and porcelain manufacturing etc. the introduction of ASEA and foreign advanced manufacturing technology and Germany, the United States and other foreign advanced manufacturing equipment, the expansion of the tube production line, then formed the largest casing production base. At the same time on the relevant test facilities were reformed and perfected, so that the production capacity, production equipment, technology, manufacturing quality and performance to a new level, and further improve the production environment, achieve the production site clean, beautiful environment, suitable for high pressure, high pressure electric appliance production environment, casing products manufacturing to reach the domestic first-class level.





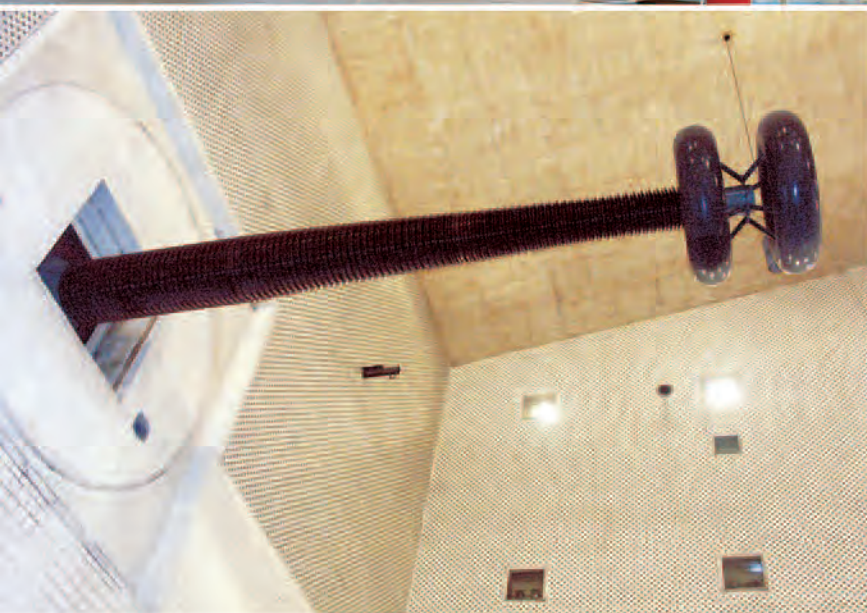
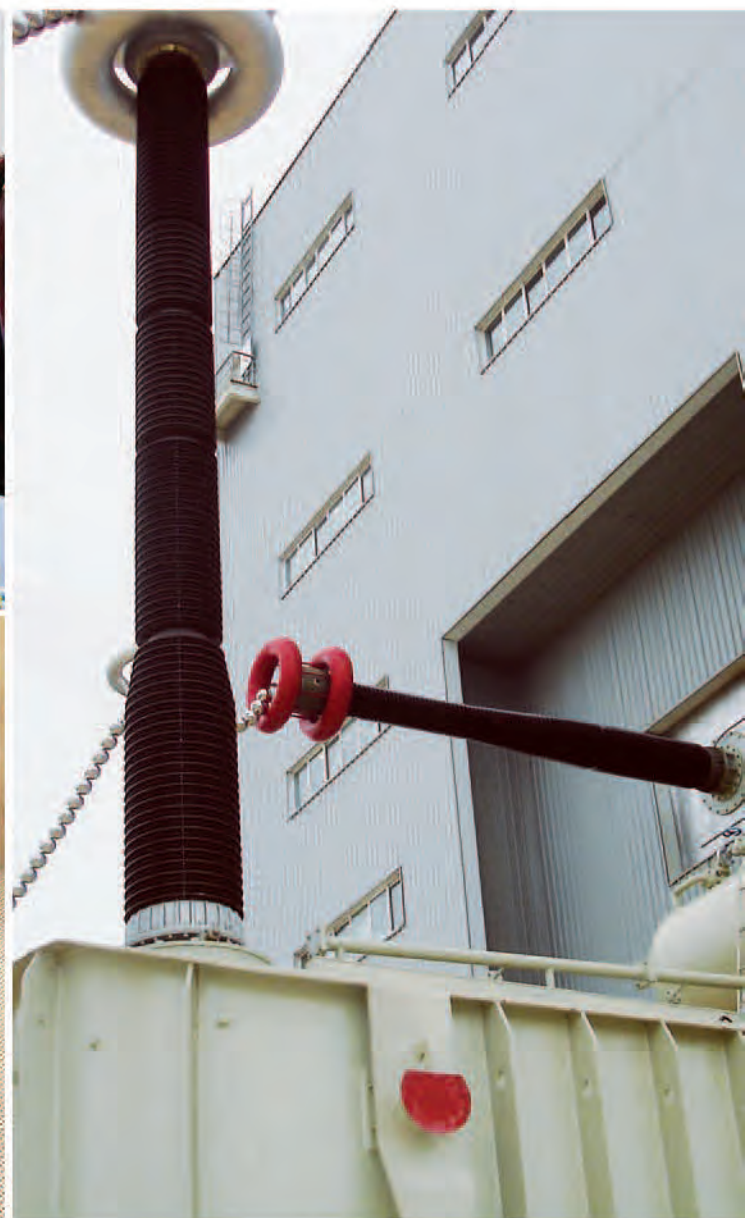
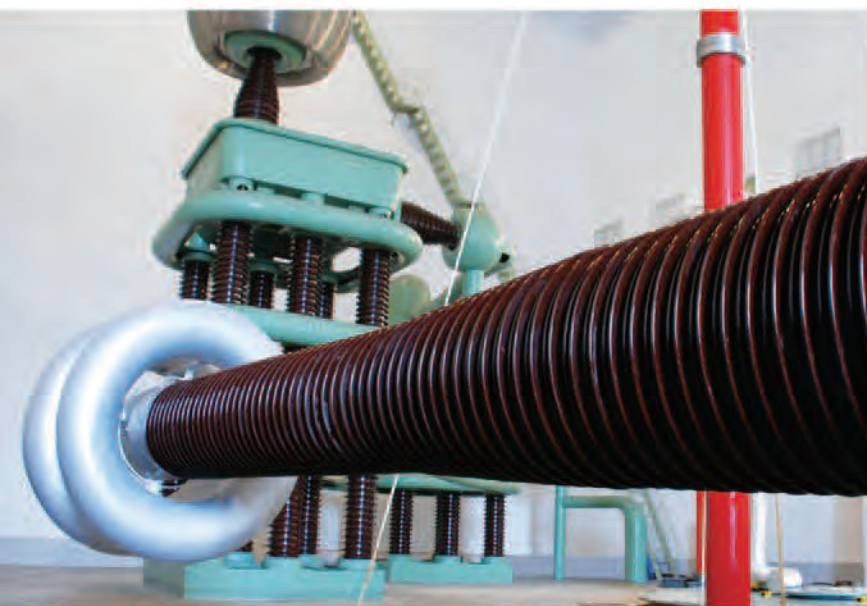
The main contents of technical transformation of capacitive bushing for, one is to adjust the process: Aiming at the international advanced level, combined with the existing plant layout, redesign the original process, so as to achieve the reasonable flow; two is to update the production equipment: the main insulation processing system and core drying system used at present the best manufacturers products, the main components are imported components, with automatic control system, stable product quality; three is to improve the assembling method: on product assembly, self-developed automatic hydraulic assembly, the assembly quality has been further improved; four is to improve the insulation treatment: the key process of insulating treatment – Extraction Process of drying room, to achieve near 400m³, domestic leading technology, and energy saving effect; five is to expand the operation area: in order to meet the needs of production increased, expanding the work area more than 3000 square meters.

The formation of the technological transformation of 220kV casing, the annual output will reach 3000, 330kV and 550kV casing annual output 500; 800kV or 1000kV and above the casing annual output 60; at the same time has formed with DC and dry-pipe production capacity. Technological transformation is completed, will be introduced by the manufacturing equipment, technology and equipment renewal, so that the production of products continue to maintain our excellent electrical performance, insulation margin higher characteristic, have been improved in the process of making uniform consistency, product performance level reached the international advanced level.



Special high-voltage capacitor bushing

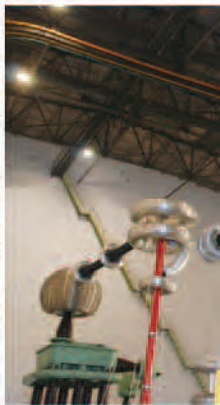
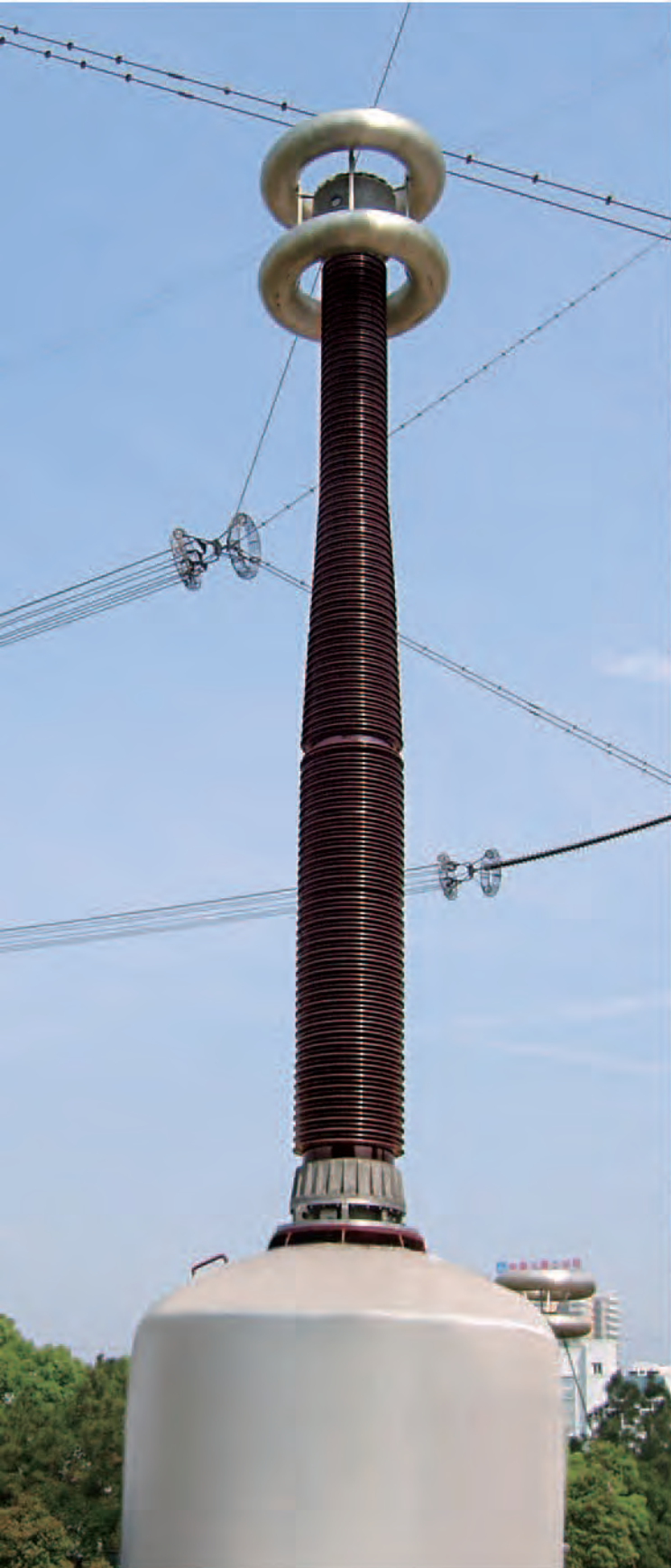
Our company is not only the first branch of oil-paper capacitor bushing production factory, ranking first in China in the total number of capacitive bushing power grid operation; at the same time in the 500kV level and above of oil-paper capacitor bushing production, including its joint ventures, domestic only my company also has production capacity and supply experience. Therefore, my company in April 5, 2006 won the bid in one fell swoop represents the highest level of domestic, China State Grid Corp UHV climatic test chamber (arms high) with wall bushing project. Subsequently, with the State Grid Beijing Electric Power Research Institute and the southern Power Grid Corp signed a million volts AC, DC bushing level of the supply contract, the timely completion of the delivery of the task, and through the test of corresponding, shows the strength of strong manufacturing enterprises.

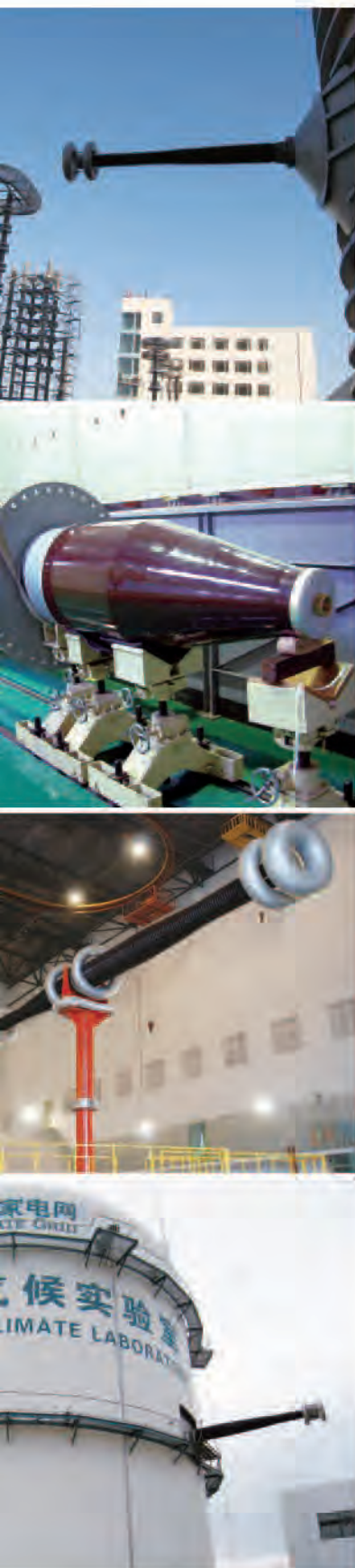


This is a few special high-voltage wall bushing is currently the largest, the highest requirements wall bushing, due to the use of special requirements, the design, the casing processing, manufacturing has brought great difficulty. In order to meet the national construction of UHV power grid assessment requirements of test equipment, a reflection of my company technology strength, our company play South porcelain hard-fighting style, were completed on schedule the UHV bushing of R & D and production task, make my company in the development of new domestic first.

At present a large number of production of modified new casing products to improve the breakthrough in the contamination resistance and tolerance to environmental erosion ability, the overall performance level products reached the international advanced level of similar products.

In each kind of new casing after the completion of the development, has conducted a series of performance tests, including electrical performance margin test, guarantee the electrical performance of new products and insulation inheritance margin the original product good electrical performance and improve.





The development history of transformer bushing

1958

In 1958, the first capacitor bushing in China was researched and produced successfully

1978

In 1978, the first 500kV capacitor bushing in China was researched and produced successfully

1983

In 1983, the 110kV capacitive transformer bushing obtained national silver medal of quality

1987

In 1987, made important contribution in national important equipment research and development project—complete equipment development of 500kV extra high voltage power transmission and transformation and was honored with honor certificates awarded by important technical equipments development leading team of the State Council

1988

In 1988, achieved outstanding results in Jinzhou–Liaoyang 500kV test wire segment and development of complete set power transmission and transformation equipment, and obtained special prize of national mechanical science and technology

1990

In 1990, 220kV oil–paper capacitor wall bushing was rated as national new product

1991

In 1991, successfully repaired 850kV wall bushing for Electric Power Research Institute in Northeast China

2001

In 2001, produced 690kV AC and DC wall bushing for Beijing Electric Power Research Institute

2004

In 2004, successfully produced 800kV transformer bushing

2005

In 2005, successfully produced 800kV transformer bushing and passed all type tests

2006

In 2006, 800kV transformer bushing was awarded special prize of Chinese engineering industry science and technology award

In 2006, successfully produced the first 800kV wall bushing in China for Wuhan High Voltage Institute of State Grid

2007

In 2007, the first 1100kV ultrahigh voltage transformer bushing in China was researched and produced successfully

2008

In 2008, successfully produced megavolt level ultrahigh voltage A.C. and D.C. wall bushing for China Electric Power Research Institute and Yunnan Ultrahigh Voltage Test Base of Southern Grid

2012

In 2012, cooperation with the China Electric Power Research Institute to complete the 1100kV oil–SF6 transformer bushing



Transformer Bushing



The recent delivery performance

2008	126kV and below bushing	4500 branch	 国家电网公司 STATE GRID CORPORATION OF CHINA	 中国南方电网 CHINA SOUTHERN POWER GRID	 中国国电 CHINA GUODIAN
	252kV bushing	900 branch			
	330-550kV bushing	90 branch	 中电投集团公司	 ABB	
	800kV and above bushing	5 branch			
2009	126kV and below bushing	4800 branch	 天威集团 TIANWEI GROUP	 SANMEN	 CHINT 正泰集团 CHINT GROUP
	252kV bushing	980 branch			
	330-550kV bushing	136 branch	 TBEA 特变电工 Always Reliable 全球信赖	 HUAPENG 华鹏	 华夏特变
	800kV and above bushing	-			
2010	126kV and below bushing	5082 branch	 长春三鼎变压器有限公司 Changchun Sanyuan Transformer Co., Ltd.	 湖北阳光电气有限公司	
	252kV bushing	825 branch			
	330-550kV bushing	148 branch	 哈尔滨变压器有限责任公司 HARBIN TRANSFORMER LIMITED LIABILITY COMPANY	 华城电机(武汉)有限公司 Fortune Electric(Wuhan)Ltd.	
	800kV and above bushing	7 branch			
2011	126kV and below bushing	5120 branch	 江西变压器科技股份有限公司 Jiangxi Transformer Science & Technology Co., Ltd.	 锦州变压器股份有限公司 JINZHOU TRANSFORMER CO., LTD.	
	252kV bushing	988 branch	 辽宁易发式电气设备有限公司 Liaoning-EPAC Electrical Equipment Co., Ltd.	 HYOSUNG 南通晓星变压器有限公司	
	330-550kV bushing	168 branch	 QRE 钱江电气 QIANTANG ELECTRIC CO., LTD.	 山东鲁能泰山电力设备有限公司 Shandong Lumeng Mount. Tai Electric Equipment Co., Ltd.	
	1100kV and above bushing	1 branch	 Dashi 山东达驰电气有限公司 SHANDONG DACHI ELECTRIC CO., LTD.	 武汉变压器有限责任公司 WUHAN TRANSFORMER	
2012	126kV and below bushing	5213 branch	 WOLONG 卧龙电气银川变压器有限公司 WOLONG ELECTRIC YINCHUAN TRANSFORMER CO., LTD.	 云南通变电器有限公司 YUNNAN TONGBIAN ELECTRIC APPLIANCE CO., LTD.	
	252kV bushing	990 branch			
	330-550kV bushing	221 branch	 中国·人民电器集团 CHINA PEOPLE'S ELECTRIC GROUP CHINA 江西人民电器有限公司	 JTB 浙江江山变压器有限公司 ZHEJIANG JIANGSHAN TRANSFORMER CO., LTD.	

12kV transformer bushing

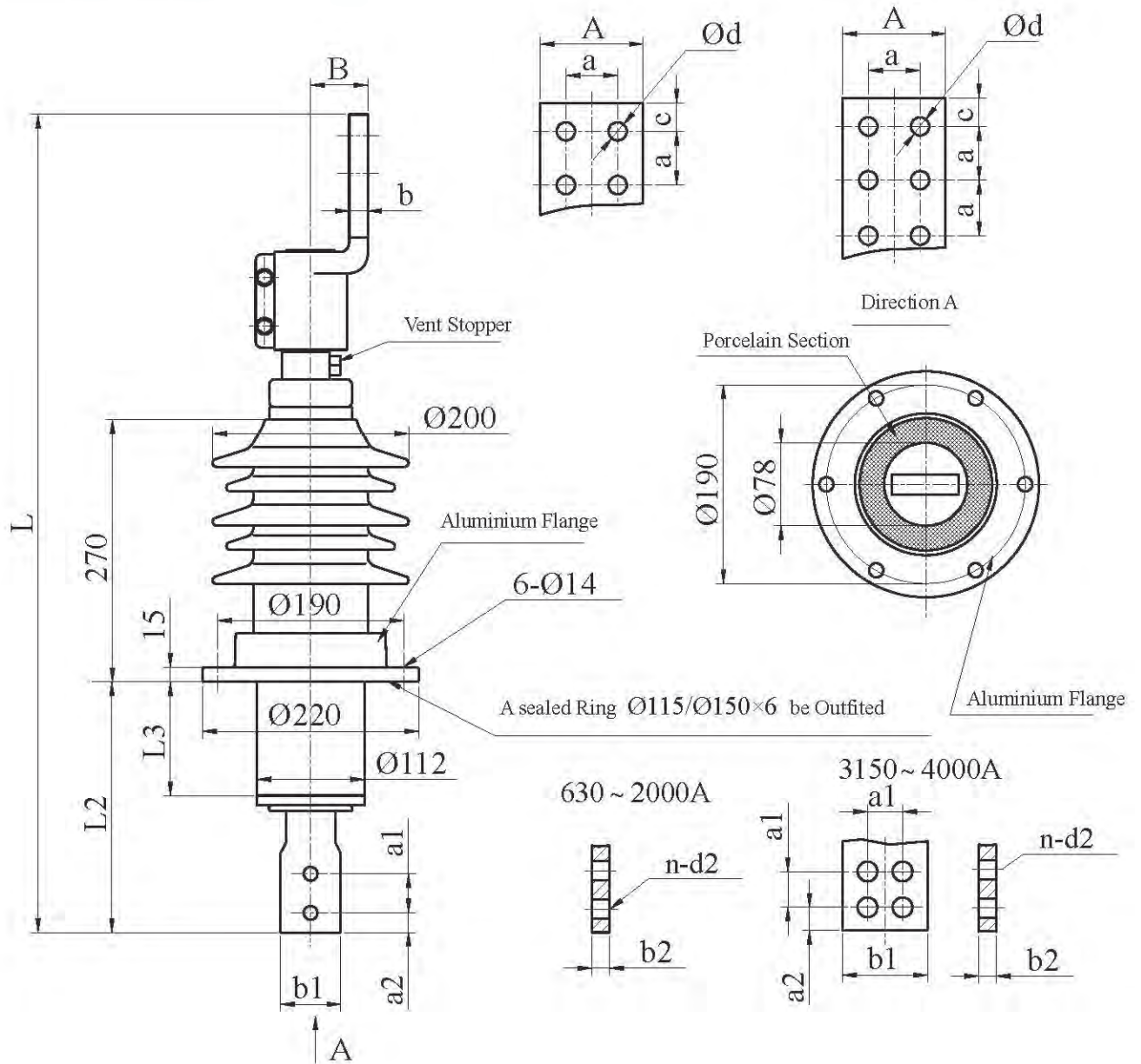


Table3 12kV Bushing Outline Dimensions Creepage Distance: 450mm

Type	Cat. No	Rated Current (A)	L	L2	L3	a1	a2	b1	b2	n-d2	a	c	A	B	b	Ød
BW-12/630-4	321101	630	650	180	70	30	15	36	14	2-Ø14	30	16.5	63	15	8	4-Ø14
BW-12/1250-4	321201	1250	670	180	70	30	15	36	14	2-Ø14	40	20	80	20	10	4-Ø14
BW-12/2000-4	321301	2000	730	210	70	45	25	45	18	2-Ø14	50	25	100	45	14	4-Ø18
BW-12/2500-4	321401	2500	760	210	70	45	25	60	18	2-Ø14	50	32	125	55	16	4-Ø18
BW-12/3150-4	321501	3150	820	210	70	40	20	80	18	4-Ø14	50	31	112	60	20	6-Ø18
BW-12/4000-4	321601	4000	820	210	70	40	20	80	18	4-Ø14	50	31	112	60	20	6-Ø18
BLW-12/1250-4	321202	1250	970	480	370	30	15	36	14	2-Ø14	40	20	80	20	10	4-Ø14
BLW-12/2000-4	321302	2000	1030	510	370	45	25	45	18	2-Ø14	50	25	100	45	14	4-Ø18
BLW-12/4000-4	321602	4000	1120	510	370	40	20	80	18	4-Ø14	50	31	112	60	20	6-Ø18

Note: The transformer bushing can be designed according as order demand.

24kV transformer bushing

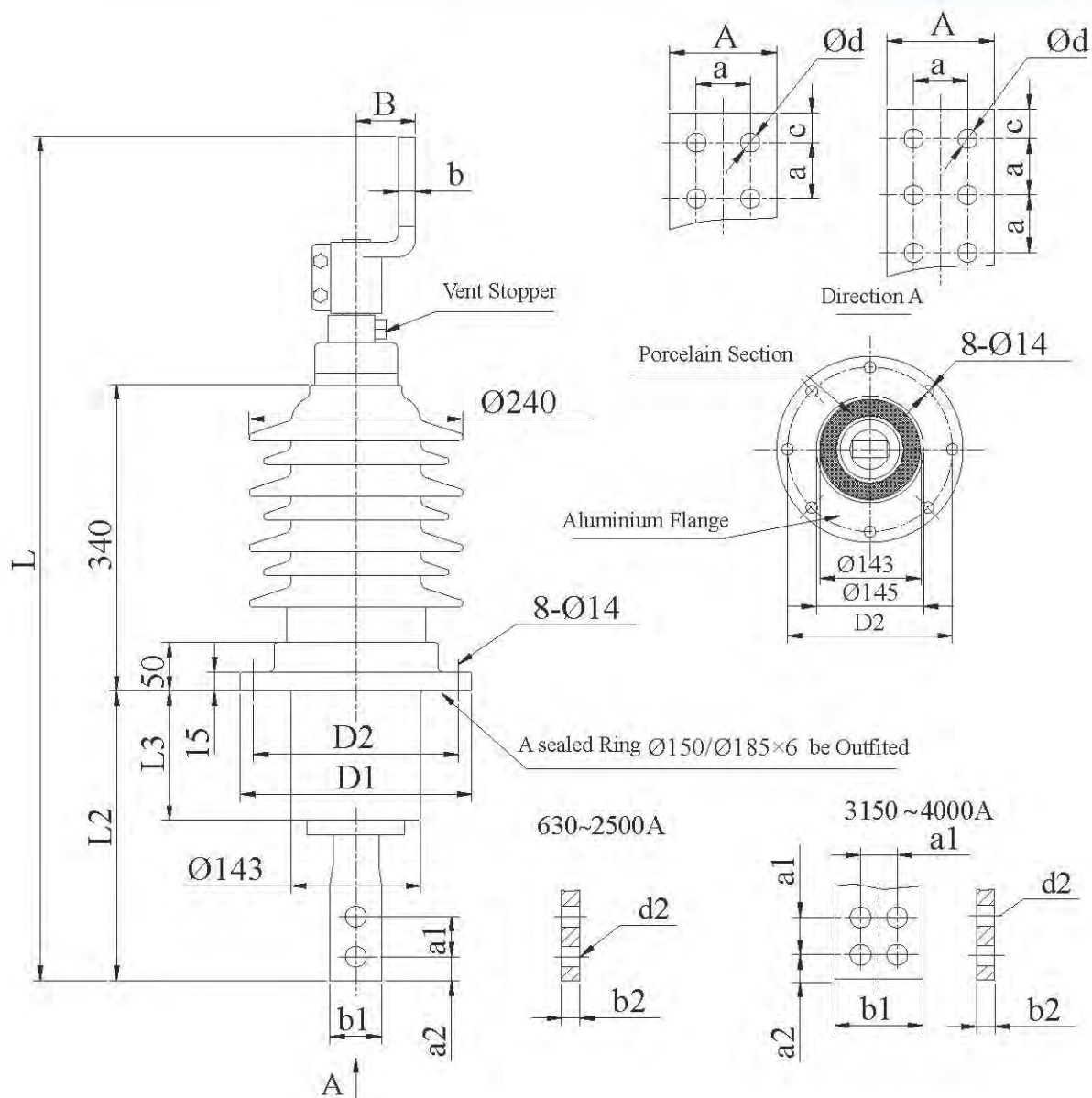


Table4 24kV Bushing Outline Dimensions Creepage Distance: 780mm

Type	Cat. No	Rated Current (A)	L	L2	L3	a1	a2	b1	b2	n-d2	a	c	A	B	b	Ød	D1	D2
BW-24/630-4	322101	630	770	230	120	30	15	36	14	2-Ø14	30	16.5	63	15	8	4-Ø14	240	210
BW-24/1250-4	322201	1250	790	230	120	30	15	36	14	2-Ø14	40	20	80	20	10	4-Ø14	240	210
BW-24/2000-4	322301	2000	850	260	120	45	25	45	18	2-Ø14	50	25	100	45	14	4-Ø18	240	210
BW-24/2500-4	322401	2500	880	260	120	45	25	60	18	2-Ø14	60	32	125	55	16	4-Ø18	240	210
BW-24/3150-4	322501	3150	940	260	120	40	23	86	18	4-Ø14	50	31	112	60	20	6-Ø18	255	225
BW-24/4000-4	322601	4000	940	260	120	40	23	86	20	4-Ø14	50	31	112	60	20	6-Ø18	255	225
BLW-24/1250-4	322202	1250	1120	560	450	30	15	36	14	2-Ø14	40	20	80	20	10	4-Ø14	240	210
BLW-24/2000-4	322302	2000	1180	590	450	45	25	45	18	2-Ø14	50	25	100	45	14	4-Ø18	240	210
BLW-24/2500-4	322402	2500	1210	590	450	45	25	60	18	2-Ø14	60	32	125	55	16	4-Ø18	240	210
BLW-24/4000-4	322602	4000	1190	510	370	40	23	86	20	4-Ø14	50	31	112	60	20	6-Ø18	255	225

Note: The transformer bushing can be designed according as order demand.

40.5kV transformer bushing

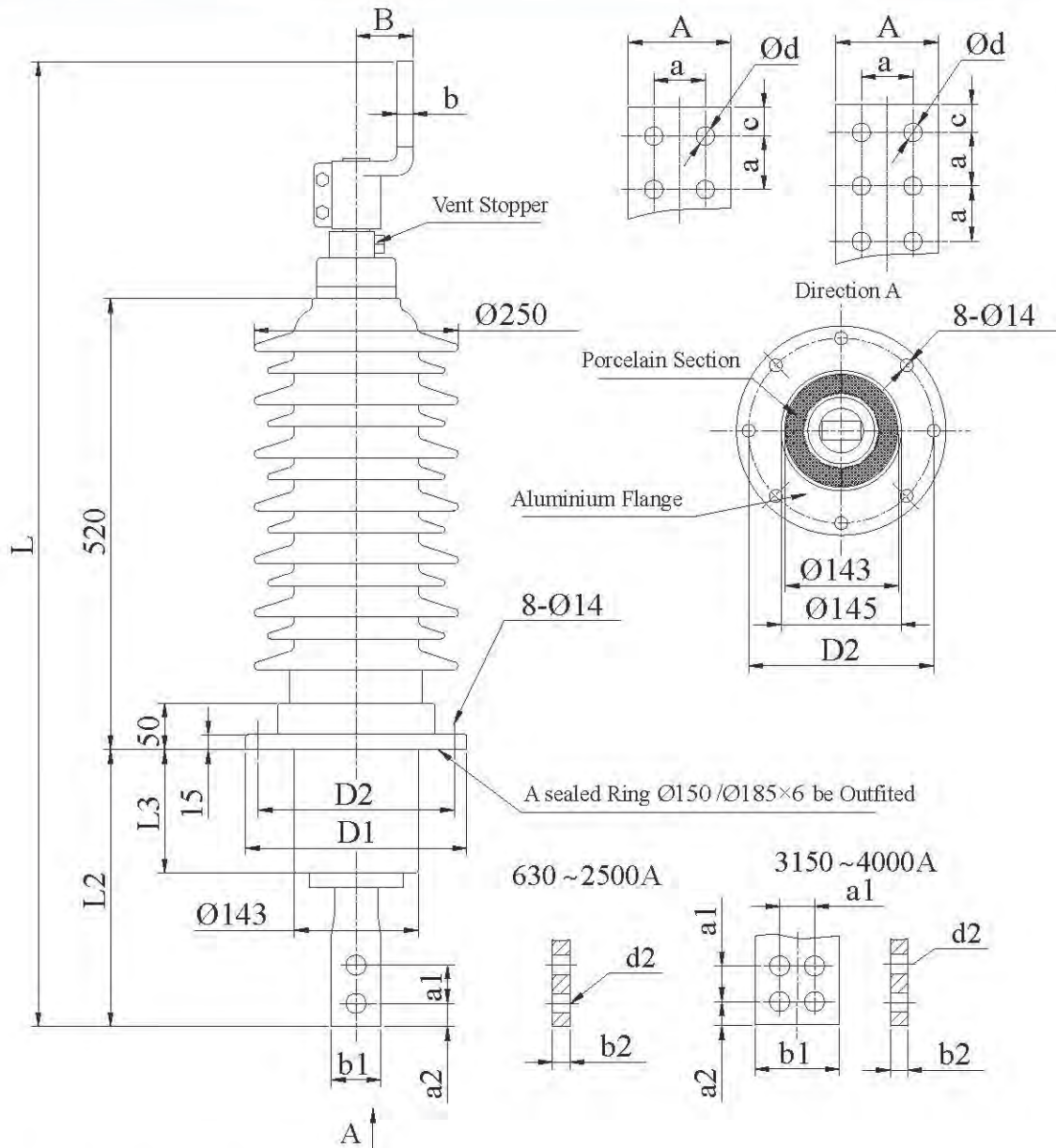


Table5 40.5kV Bushing Outline Dimensions Creepage Distance: 1260mm

Type	Cat. No	Rated Current (A)	L	L2	L3	a1	a2	b1	b2	n-d2	a	c	A	B	b	Ød	D1	D2
BW-40.5/630-4	323102	630	970	250	140	30	15	36	14	2-Ø14	30	16.5	63	15	8	4-Ø14	240	210
BW-40.5/1250-4	323202	1250	990	250	140	30	15	36	14	2-Ø14	40	20	80	20	10	4-Ø14	240	210
BW-40.5/2000-4	323302	2000	1050	280	140	45	25	45	18	2-Ø14	50	25	100	45	14	4-Ø18	240	210
BW-40.5/2500-4	323402	2500	1080	280	140	45	25	60	18	2-Ø14	60	32	125	55	16	4-Ø18	240	210
BW-40.5/3150-4	323502	3150	1140	280	140	40	23	86	18	4-Ø14	50	31	112	60	20	6-Ø18	255	225
BW-40.5/4000-4	323602	4000	1140	280	140	40	23	86	20	4-Ø14	50	31	112	60	20	6-Ø18	255	225
BLW-40.5/630-4	323101	630	1220	500	390	30	15	36	14	2-Ø14	30	16.5	63	15	8	4-Ø14	240	210
BLW-40.5/1250-4	323201	1250	1240	500	390	30	15	36	14	2-Ø14	40	20	80	20	10	4-Ø18	240	210
BLW-40.5/2000-4	323301	2000	1300	530	390	45	25	45	18	2-Ø14	50	25	100	45	14	4-Ø18	240	210
BLW-40.5/2500-4	323401	2500	1330	530	390	45	25	60	18	2-Ø14	60	32	125	55	16	4-Ø18	240	210
BLW-40.5/3150-4	323501	3150	1390	530	390	40	23	86	18	4-Ø14	50	31	112	60	20	6-Ø18	255	225
BLW-40.5/4000-4	323601	4000	1390	530	390	40	23	86	20	4-Ø14	50	31	112	60	20	6-Ø18	255	225

Note: The transformer bushing can be designed according as order demand.

24kV - 40.5kV transformer bushing

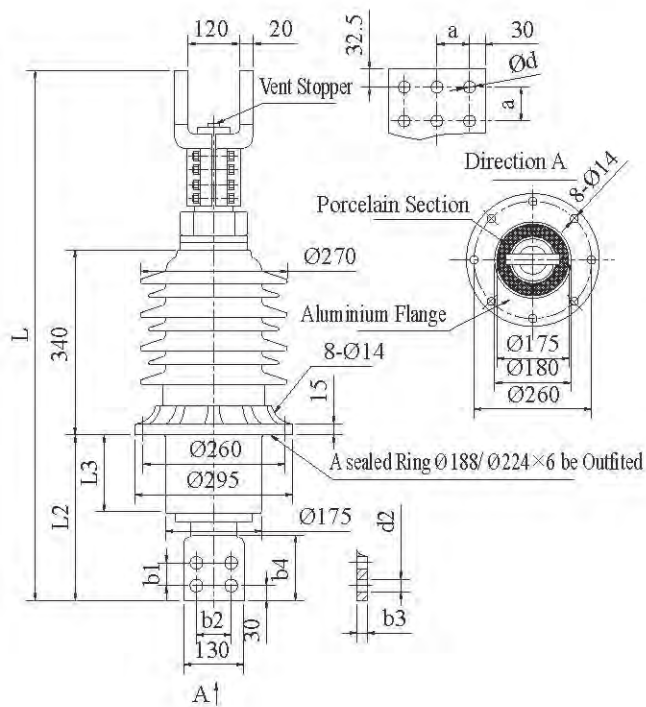


Fig.1

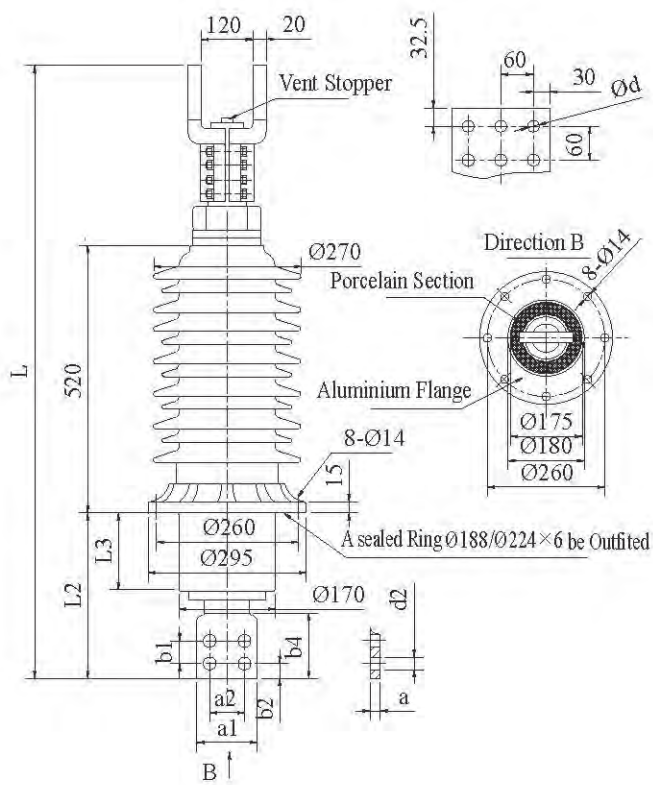


Fig.2

Table6 24kV~40.5kV Bushing Outline Dimensions

Type	Cat. No	Fig. No	Rated Current (A)	L	L2	L3	b1	b2	b3	b4	a1	a2	n-d2	a	Ød	Creepage Distance mm
BW-24/6000-4	322701	1	6000	940	260	120	50	70	20	110	-	-	4-Ø14	60	12-Ø18	780
BW-24/6000-4	322702	1	6000	970	290	120	80	60	20	140	-	-	4-Ø18	60	12-Ø18	780
BLW-24/6000-4	322703	1	6000	1180	500	360	50	70	20	110	-	-	4-Ø14	60	12-Ø18	780
BLW-24/6000-4	322704	1	6000	1210	530	360	80	60	20	140	-	-	4-Ø18	60	12-Ø18	780
BW-40.5/6000-4	323701	2	6000	1140	280	140	50	30	-	110	130	70	4-Ø14	20	12-Ø18	1260
BW-40.5/6000-4	323702	2	6000	1170	310	140	80	30	-	140	130	60	4-Ø18	20	12-Ø18	1260
BLW-40.5/6000-4	323703	2	6000	1380	520	380	50	30	-	110	130	70	4-Ø14	20	12-Ø18	1260
BLW-40.5/6000-4	323704	2	6000	1410	550	380	80	30	-	140	130	60	4-Ø18	20	12-Ø18	1260

Note: The transformer bushing can be designed according as order demand.

12kV – 40.5kV transformer bushing (double panel)

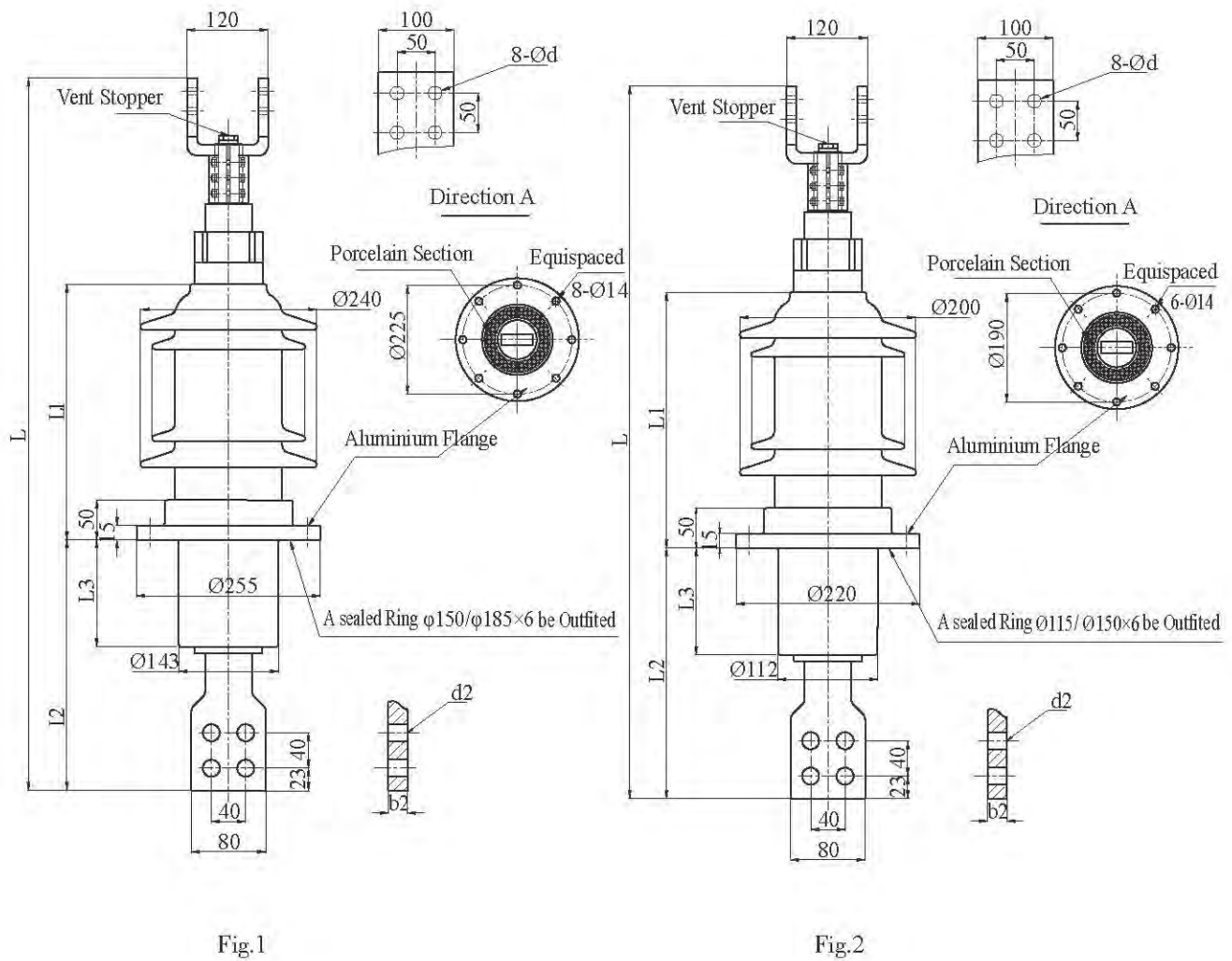


Table 8 12kV~40.5kV Bushing Outline Dimensions

Type	Cat. No	Fig. No	Rated Current (A)	L	L1	L2	L3	b2	d2	d	Creepage Distance mm
BW-12/3150-4	321502	2	3150	790	270	210	70	18	4- $\text{Ø}14$	8- $\text{Ø}18$	450
BW-12/4000-4	321603	2	4000	790	270	210	70	20	4- $\text{Ø}14$	8- $\text{Ø}18$	450
BW-24/3150-4	322502	1	3150	910	340	260	120	18	4- $\text{Ø}14$	8- $\text{Ø}18$	780
BW-24/4000-4	322603	1	4000	910	340	260	120	20	4- $\text{Ø}14$	8- $\text{Ø}18$	780
BW-40.5/3150-4	323503	1	3150	1110	520	280	140	18	4- $\text{Ø}14$	8- $\text{Ø}18$	1260
BW-40.5/4000-4	323603	1	4000	1110	520	280	140	20	4- $\text{Ø}14$	8- $\text{Ø}18$	780

Note: The transformer bushing can be designed according as order demand.

24kV ~ 40.5kV transformer bushing (16000A)

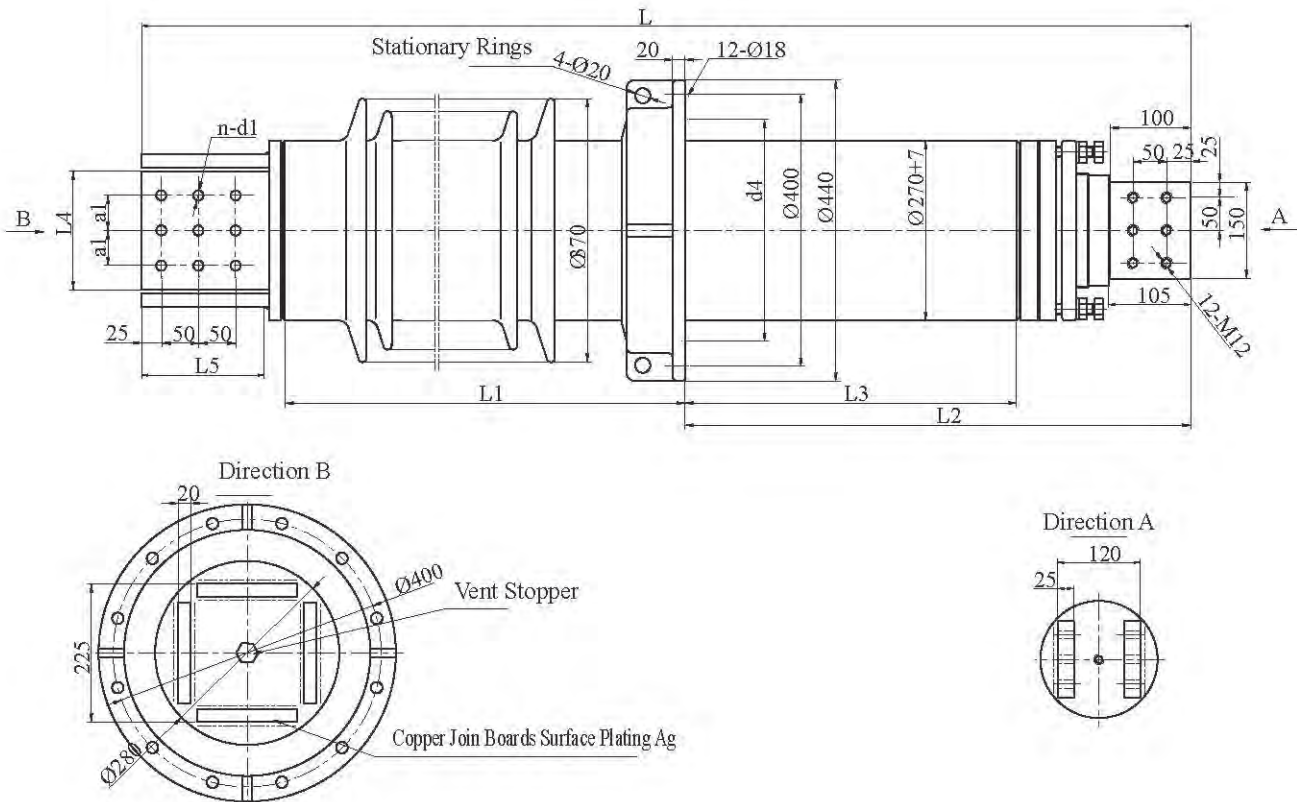


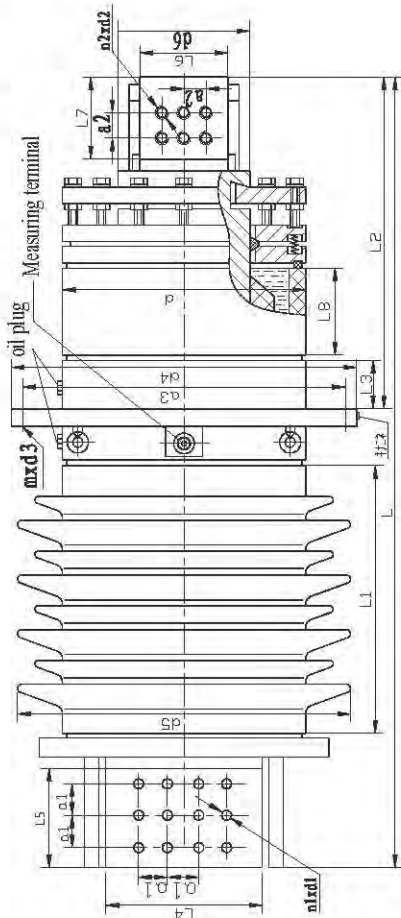
Table10 24kV~40.5kV Bushing Outline Dimensions

Recommendatory Sealed Range: Ø290/Ø330

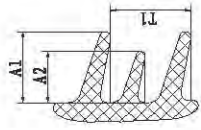
Type	Cat. No	Rated Current (A)	L	Top Join Board Dimensions					L1	L2	L3	Max Sealed Outer Dia d4	Creepage Distance mm
				Board. No	L4×L5	n	a1	d1					
BW-24/12500-4	322901	12500	930	4	150×150	9×4	50	18	400	360	140	340	780
BLW-24/12500-4	322902	12500	1190	4	150×150	9×4	50	18	400	610	400	340	780
BW-24/16000-4	322903	16000	930	4	150×150	9×4	50	18	560	350	140	340	780
BW-40.5/16000-4	323903	16000	1090	4	150×150	9×4	50	18	560	350	140	340	1360

Note: The transformer bushing can be designed according as order demand.

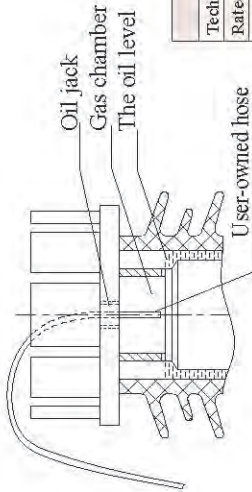
40.5kV oilpaper capacitive transformer bushing



40.5kV oilpaper capacitive transformer bushing assumption diagram:



Umbrella structure diagram

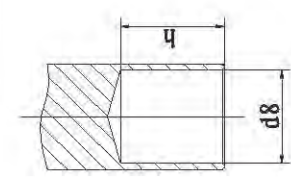
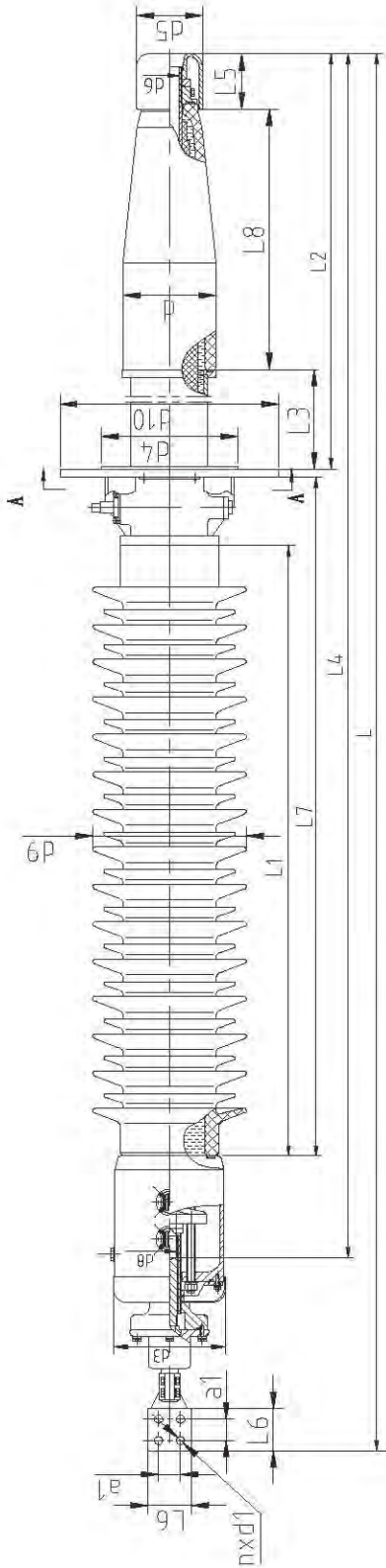


Tube directly (alone) when using the oil level control schematic diagram:

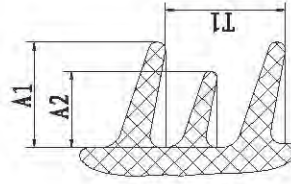
Main performance		GB/T 4109
Technical standard	kV	40.5
Rated Voltage	A	10000 - 25000
Rated Current	kV	90
1min power frequency dry voltage withstand	kV	90 (80)
1min power frequency dry (wet) voltage withstand	kV	200
Full-wave impulse withstand voltage of lightning	kV	220
Clipped-wave impulse withstand voltage of lightning	kV	220
Partial discharge under the rated voltage	pC	≤10
Under 1.05 times of maximum phase voltage τaδ	N	≥3150
Bending resistant test load	N	≥3150

Type	Cat. No	Rated Voltage (kV)	Rated Current (A)	Main Dimensions mm										Casing weight kg																
				Wiring terminal			On the porcelain			Flange			Under the porcelain sleeve length		Under the terminal															
				Terminals number	Panel surface L4 x L5	Each of the wiring board	Effective insulation creepage distance L1	Nominal creepage distance S	Maximum diameter of umbrella d5	Large umbrella out of range A1	Small umbrella out of range A2	Big umbrella out of range T1			Outside diameter of flange plate d7	Center distance of installation hole a3	Number of holes m	Aperture d3	The length of the oil in the ground L3	Total length of oil integrated part L2	Maximum diameter of oil D	Terminals number	Panel surface L6 x L7	Hole distance a2	Hole number a2	Aperture d2				
BRLW-40.5/16000-3	353001	40.5	16000	8	302 x 140	25	50	10	17	730	400	1015	450	45	无	45	520	450	8	20	285	685	360	2	130 x 120	40	6	M12	245	350
BRLW-40.5/10000-3	353003D	40.5	10000	4	150 x 175	25	40	9	14	220	400	1015	405	65	40	80	400	350	8	20	400	800	270	2	80 x 135	40	4	M12	170	195
BRLW-40.5/10000-3	353004D	40.5	10000	2	150 x 210	25	40	12	18	220	400	1015	405	80	65	40	400	350	8	20	400	800	270	2	80 x 135	40	4	M12	170	230
BRLW-40.5/16000-3	353006	40.5	16000	8	180 x 140	25	40	9	14	435	400	1015	450	45	无	45	520	450	8	20	285	685	360	2	130 x 120	40	6	M12	245	350
BRLW-40.5/5000-3	353007D	40.5	5000	2	125 x 135	30	40	9	14	160	400	1015	350	80	65	40	360	325	8	20	400	765	220	2	80 x 110	40	4	M12	120	170
BRW-40.5/10000-2	353008D	40.5	10000	4	150 x 155	25	40	9	14	220	300	810	390	65	45	75	400	350	8	20	30	418	265	2	80 x 120	40	4	M12	170	120
BRW-40.5/10000-2	353009D	40.5	10000	8	100 x 150	25	40	6	14	300	300	810	390	65	45	75	400	350	8	20	30	418	265	2	80 x 120	40	4	M12	170	123
BRW-40.5/16000-3	353010	40.5	16000	8	180 x 140	25	40	9	14	435	400	1015	450	65	45	75	520	450	8	20	30	420	360	2	130 x 120	40	6	M12	245	255
BRW-40.5/16000-2	353014D	40.5	16000	4	238 x 150	25	40	12	14	300	300	810	480	65	45	75	480	430	8	20	30	418	355	2	130 x 120	40	6	M12	250	220
BRW-40.5/16000-3	353017D	40.5	16000	4	238 x 150	25	40	12	14	300	400	1015	480	65	45	75	480	435	8	20	30	418	355	2	130 x 120	40	6	M12	250	230
BRW-40.5/20000-4	353016D	40.5	20000	4	180 x 140	25	40	9	14	450	450	1418	490	65	45	75	520	450	8	20	30	420	360	2	140 x 140	40	6	M12	245	275
BRW-40.5/25000-3	353018D	40.5	25000	8	300 x 155	25	40	18	14	400	400	1015	620	65	45	75	680	620	16	22	200	665	490	2	350 x 100	50	12	M12	390	600

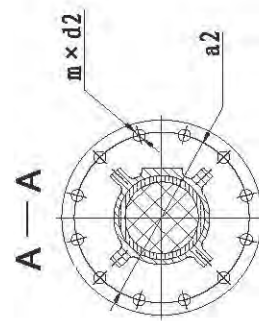
126kV/630A small oil pillow cable wear type oilpaper capacitive transformer bushing



Lead connector cable welding Kong Tu



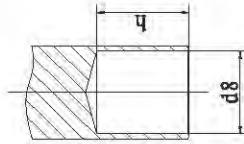
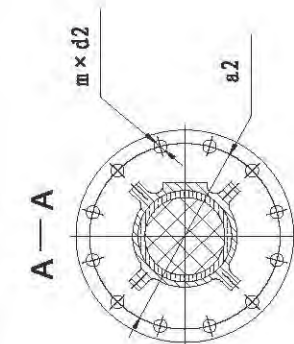
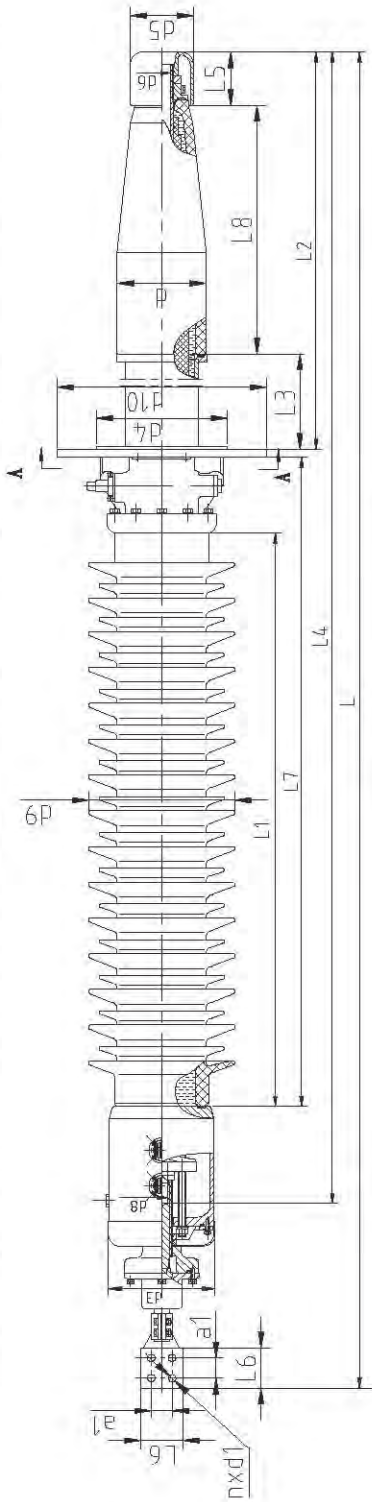
Umbrella structure diagram



Main performance	
Technical standard	GB/T 4109
Rated Voltage	kV 126
Rated Current	A 630
Minimum power frequency dry voltage withstand	kV 230
Minimum power frequency dry (wet) voltage withstand	kV 230
Full-wave impulse withstand voltage of lightning	kV 550
Clipped-wave impulse withstand voltage of lightning	kV 633
Partial discharge under the rated voltage	pC ≤ 10
Under 1.05 times of maximum phase voltage ratio	≤ 0.005
Bending resistant test load	N ≥ 1250

Main Dimensions mm																																		
Type	Cat. No.	Rated Voltage (kV)	Rated Current (A)	Total length of casing (L)	Wiring terminal			Oil drum diameter		Lead connector		On the porcelain			Flange		Oil		Average pressure ball		Casing weight kg													
					Hole distance	Hole number	Aperture	The introduction of cable length	Oil pillow to the flange distance	Thread specification	Welding cable diameter	Welding cable hole depth	Effective insulation creepage distance	Normal distance	Maximum diameter of umbrella	Large umbrella out of range	Small umbrella out of range	Big umbrella spacing	The average diameter of umbrella	Outside diameter of the flange		Center distance of installation	Open holes	Inner diameter of sealing surface	The length of the oil in the ground	The flange thickness	Oil seamed length	Maximum diameter of oil	Under the porcelain sleeve length	High	Diameter	Conductive tube diameter		
BRDW-126/630-3	355078D	126	630	2298	80 x 80	40	4	14	1970	200	M33 x 1.5	28	50	1150	3150	290	60	40	70	252	400	350	6	24	240	40	18	450	170	350	60	120	35	137
BRDLW-126/630-3	355080D	126	630	2658	80 x 80	40	4	14	2300	200	M33 x 1.5	28	50	1150	3150	290	60	40	70	252	400	350	6	24	240	400	18	810	170	350	60	120	35	158

126kV/630A small oil pillow cable wear type oilpaper capacitive transformer bushing (clamping)

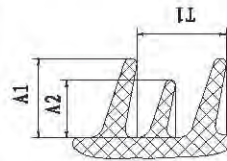
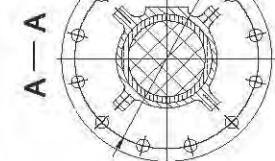
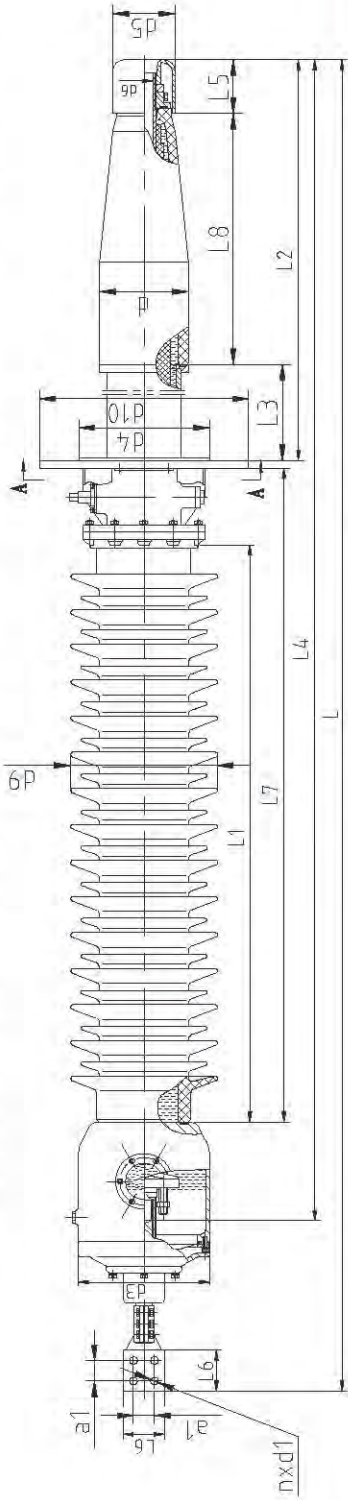


Umbrella structure diagram
Lead connector cable welding Kong Tu

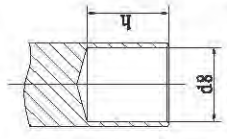
Main performance		CBT-4109
Technical standard		126
Rated Voltage	kV	630
Rated Current	A	230
1min power frequency dry voltage withstand	kV	550
1min power frequency dry (wet) voltage withstand	kV	633
Full-wave impulse withstand voltage of lightning	kV	≤10
Clipped-wave impulse withstand voltage of lightning	kV	≤0.005
Partial discharge under the rated voltage	pC	≥3150
Under 1.05 times of maximum phase voltage band		
Bending resistant test load	N	

Type	Cat. No	Rated Voltage (kV)	Rated Current (A)	Main Dimensions mm										Casing weight kg																					
				Total length of casing (L)	Wiring terminal			Lead connector			On the porcelain				Flange		Average pressure ball																		
				L	Panel surface	Hole distance	Hole number	Aperture	The introduction of cable length	Oil drum diameter	Oil pillow to the flange distance	Thread specification	Welding cable diameter	Welding cable hole depth	Effective insulation distance	Nominal overage distance	Maximum diameter of umbrella	Large umbrella out of range	Small umbrella out of range	Big umbrella spacing	The average diameter of umbrella	Outside diameter of the flange	Center distance of installation hole	Open holes	Aperture	Inner diameter of sealing surface	The length of the oil in the ground	The flange thickness	Oil treated length	Maximum diameter of oil	Under the porcelain sleeve length	Diameter	Average pressure ball		
BRDW-126/630-3	355082D	126	630	2808	80 x 80	40	4	14	2460	200	1280	M33 x 1.5	28	50	1090	3150	300	60	40	70	252	400	350	6	24	240	550	18	960	170	350	60	120	35	162
BRDLW-126/630-4	355084D	126	630	2910	80 x 80	40	4	14	2550	200	1480	M33 x 1.5	28	50	1290	3910	300	60	40	70	252	400	350	6	24	240	450	18	858	170	350	60	120	35	162
BRDW-126/630-4	355085D	126	630	2500	80 x 80	40	4	14	2170	200	1480	M33 x 1.5	28	50	1290	3910	300	60	40	70	252	400	350	6	24	240	40	18	450	170	350	60	120	35	142
BRW-126/630-4	355086D	126	630	2715	80 x 80	40	4	14	2425	200	1480	M33 x 1.5	28	50	1290	3910	300	60	40	70	252	400	350	6	24	240	70	18	680	170	500	105	120	35	167

126kV/630~1250A put cable structure oilpaper capacitive transformer bushing



Umbrella structure diagram

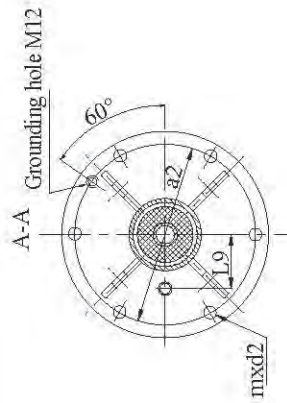
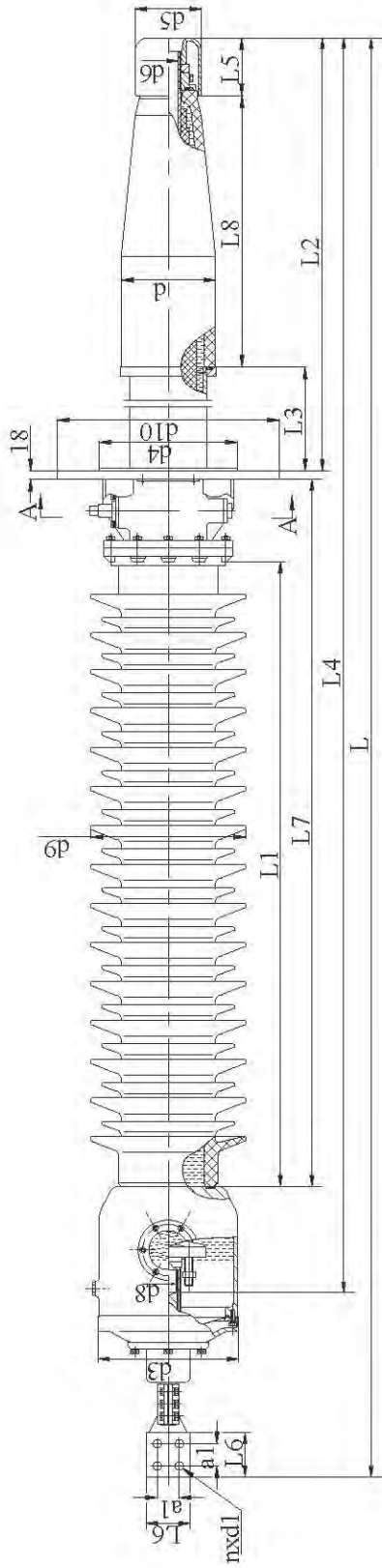


Lead connector cable welding Kong Tu

Main performance	
Technical standard	GB/T 4109
Rated Voltage	kV 126
Rated Current	A 630、1250
Min power frequency dry voltage withstand	kV 230
Min power frequency dry (wet) voltage withstand	kV 230
Full-wave impulse withstand voltage of lightning	kV 550
Clipped-wave impulse withstand voltage of lightning	kV 633
Partial discharge under the rated voltage	pC ≤10
Under 1.05 times of maximum phase voltage U_{m0}	≤0.005
Bending resistant test load	N ≥3150

Type	Cat. No.	Rated Voltage (kV)	Rated Current (A)	Total length of casing (L)	Wiring terminal			Oil drum diameter	Oil pillow to the flange distance	Lead connector			On the porcelain					Flange			Oil earthed length	Maximum diameter of oil	Average pressure ball		Casing weight kg										
					Panel surface	Hole distance	Hole number			Aperture	The introduction of cable length	Thread specification	Welding cable diameter	Welding cable hole depth	Effective insulation (creepage distance)	Maximum diameter of umbrella	Large umbrella out of range	Small umbrella out of range	Big umbrella spacing	The average diameter of umbrella			Outside diameter of the flange	Center distance of installation hole		Open holes	Aperture	Inner diameter of sealing surface	The length of the oil in the ground	The flange thickness	Under the porcelain sleeve length	High	Diameter	Conductive tube diameter	
BRLW-126/630-3	355057D	126	630	2980	80 x 80	40	4	14	2660	250	1280	M33 x 1.5	28	50	1090	3150	300	60	40	70	252	400	350	6	24	240	565	18	1175	170	500	105	120	35	182
BRLW-126/630-4	355059D	126	630	3165	80 x 80	40	4	14	2855	250	1480	M33 x 1.5	28	50	1290	3910	300	60	40	70	252	400	350	6	24	240	550	18	1160	170	500	105	120	35	260
BRDLW-126/630-4	355077D	126	630	2835	80 x 80	40	4	14	2530	250	1480	M33 x 1.5	28	50	1290	3910	300	60	40	70	252	400	350	6	24	240	400	18	810	170	350	60	120	35	165
BRLW-126/1250-3	355058D	126	1250	3070	100 x 100	50	4	18	2695	250	1280	M48 x 2	46	50	1090	3150	320	60	40	70	267	400	350	6	24	240	585	18	1185	200	500	100	140	55	235
BRLW-126/1250-3	355074D	126	1250	3070	100 x 100	50	4	18	2695	250	1280	M48 x 2	46	50	1090	3150	320	60	40	70	267	400	350	6	24	240	585	18	1185	200	500	100	140	55	235
BRDLW-126/1250-4	355068D	126	1250	2940	100 x 100	50	4	18	2560	250	1480	M48 x 2	46	50	1290	3910	320	60	40	70	267	400	350	6	24	240	400	18	845	200	350	95	155	55	215
BRDLW-126/1250-4	355070D	126	1250	3090	100 x 100	50	4	18	2710	250	1480	M48 x 2	46	50	1290	3910	320	60	40	70	267	400	350	6	24	240	550	18	995	200	350	95	155	55	245
BRDLW-126/1250-3	355087D	126	1250	2890	100 x 100	50	4	18	2510	250	1280	M48 x 2	46	50	1090	3150	320	60	40	70	267	400	350	6	24	240	550	18	995	200	350	95	155	55	230

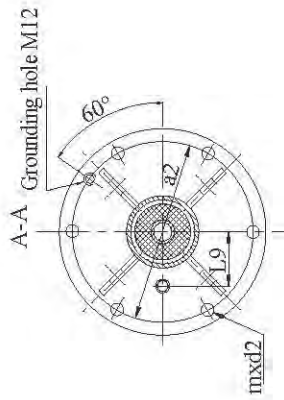
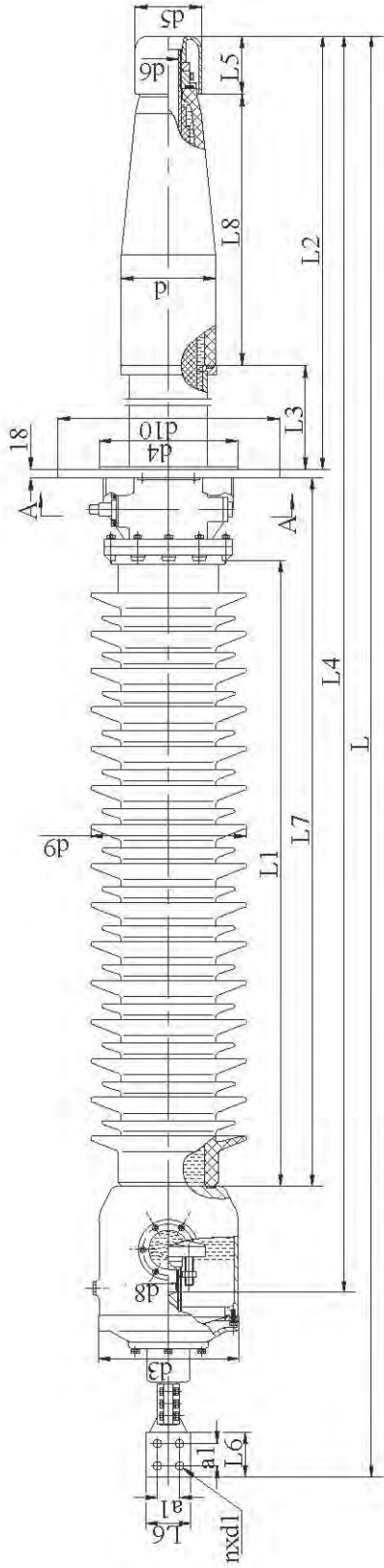
145kV/630~1250A put cable structure oilpaper capacitive transformer bushing



Main performance		CB/T 4109
Technical standard		145
Nominal voltage	kV	145
Rated Voltage	kV	630(1250)
Rated Current	A	275
Min power frequency dry (wet) voltage	kV	650
Full-wave impulse withstand voltage of lightning	kV	748
Clipped-wave impulse withstand voltage of lightning	kV	≤ 0.5%
Under 1.05 times of maximum phase voltage tanδ		≤ 10
Partial discharge at rated voltage	pC	≤ 3150
Bending resistant test load	N	25(31)
Minimum nominal creepage distance	mmkV	25(31)

Type	Cat. No	Main Dimensions mm														Casing weight kg																								
		Total length of casing (L)	Wiring terminal		The introduction of cable length	Oil drum diameter	Oil pillow to the flange distance	Lead connector		On the porcelain			Flange				Oil earthed length	Under the porcelain sleeve length	Average pressure	Conductive tube diameter																				
		The distance of the hole (L)	Board thickness	Hole number	Panel surface	d1	d1	L6 × L6	L4	L4	d3	L7	Thread specification	Welding cable diameter	Welding cable hole depth	h	L1	S	Effective insulation distance	Nominal creepage distance	Maximum diameter of umbrella	The average diameter of umbrella	Outside diameter of the flange	d10	a2	Center distance of installation hole	Hole number	Aperture	d2	d4	Inner diameter of sealing surface	The vent hole center distance	L9	L3	L2	d	d5	d6	High	Diameter
BRW-145/630-3	355071D	2775	4	40	14	80×80	2455	250	1480	M3×1.5	28	50	1290	3906	300	252	400	350	6	24	240	108	150	760	170	500	105	120	35	148										
BRLW-145/630-3	355412	3020	4	40	14	80×80	2700	250	1480	M3×1.5	28	50	1290	3906	300	252	400	350	6	24	240	108	400	1005	170	500	105	120	35	165										
BRLW-145/630-3	355094D	3175	4	40	14	80×80	2855	250	1480	M3×1.5	28	50	1290	3906	300	252	400	350	6	24	240	108	550	1160	170	500	105	120	35	175										
BRLW-145/630-4	355429	3120	4	40	14	80×80	2800	250	1580	M3×1.5	28	50	1390	4700	315	267	400	350	6	24	240	108	400	1005	170	500	105	120	35	170										
BRLW-145/630-4	355419	3220	4	40	14	80×80	2900	250	1580	M3×1.5	28	50	1390	4700	315	267	400	350	6	24	240	108	500	1105	170	500	105	120	35	180										
BRLW-145/1250-4	355451Z1	3280	4	50	18	100×100	2900	250	1680	M4×2	46	50	1490	5270	360	295	400	350	6	24	240	117	400	995	230	500	95	155	55	340										
BRLW-145/1600-4	355451	3300	4	60	18	125×125	2900	250	1680	M4×2	46	50	1490	5270	360	295	400	350	6	24	240	117	400	995	230	500	95	155	55	340										

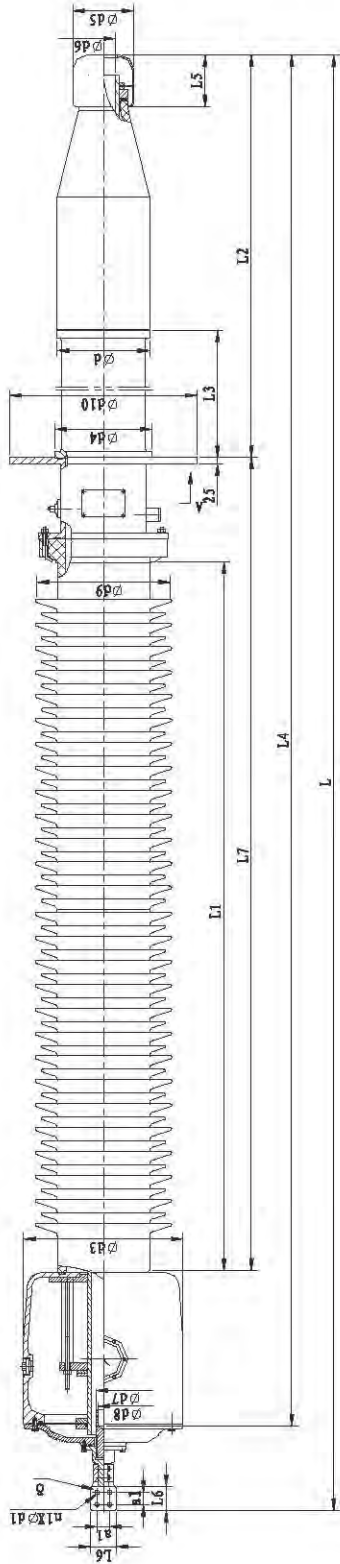
170kV/630~1250A put cable structure oilpaper capacitive transformer bushing



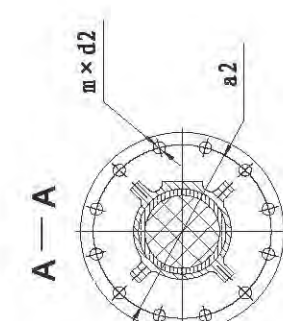
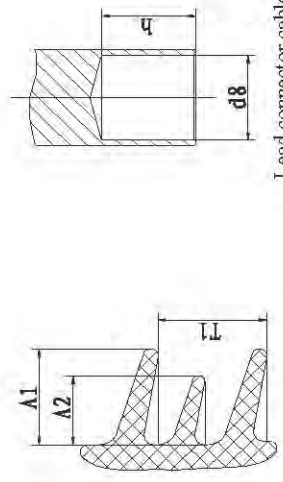
Main performance		GB/T 4109
Technical standard		GB/T 4109
Nominal voltage	LV	170
Rated Voltage	kV	170
Rated Current	A	630(1250)
1min power frequency dry (wet) voltage	kV	355(325)
1min power impulse withstand voltage of lightning	LV	750
Clipped-wave impulse withstand voltage of lightning	kV	863
Under 1.05 times of maximum phase voltage test		≤ 0.3%
Partial discharge at rated voltage	pC	≤ 10
Bending resistant test load	N	≥ 3150
Minimum nominal creepage distance	mm/kV	31

Type	Cat. No	Main Dimensions mm														Casing weight kg											
		Total length of casing (L)	The distance of the hole	Wiring terminal	The introduction of cable length	The oil drum diameter	Oil pillow to the flange distance	Lead connector	Effective insulation distance	Nominal creepage distance	Maximum diameter of umbrella	The average diameter of umbrella	Outside diameter of the flange	Center distance of installation hole	Hole number	Aperture	Flange	liner diameter of sealing surface	The vent hole center distance	The length of oil in the ground	Oil seathed length	Minimum diameter of oil sleeve length	Under the porcelain sleeve length	Average pressure	Conductive tube diameter		
		d1	a1	L6 × L6	L4	d3	L7	d7	h	L1	S	d9	d10	a2	m	d2	d4	L19	L23	L2	L2	L8	L5	d5	d6		
BRW-170/1250-4	355439	4	50	18	100×100	2580	250	1680	46	50	1490	360	295	400	350	6	24	240	117	80	675	230	500	95	155	55	340
BRW-170/1250-4	355409	4	50	18	100×100	3030	250	1680	46	50	1490	360	295	400	350	6	24	240	117	550	1145	230	500	95	155	55	340
BRW-170/1250-4	355409Z	4	50	18	100×100	2850	250	1680	46	50	1490	360	295	400	350	6	24	240	117	350	945	230	500	95	155	55	320
BRW-170/630-4	355409Z3	4	50	18	100×100	2850	250	1680	46	50	1490	360	295	400	350	6	24	240	117	350	945	230	500	95	155	55	320
BRW-170/630-4	355409Z4	4	50	18	100×100	2950	250	1680	46	50	1490	360	295	400	350	6	24	240	117	450	1045	230	500	95	155	55	330
BRW-170/630-4	355457	4	50	18	100×100	3030	250	1680	46	50	1490	360	295	400	350	6	24	240	117	550	1145	230	500	95	155	55	340
BRW-170/630-4	355457Z1	4	50	18	100×100	3100	250	1680	46	50	1490	360	295	400	350	6	24	240	117	600	1195	230	500	95	155	55	340

252kV/630~1250A put cable structure oilpaper capacitive transformer bushing

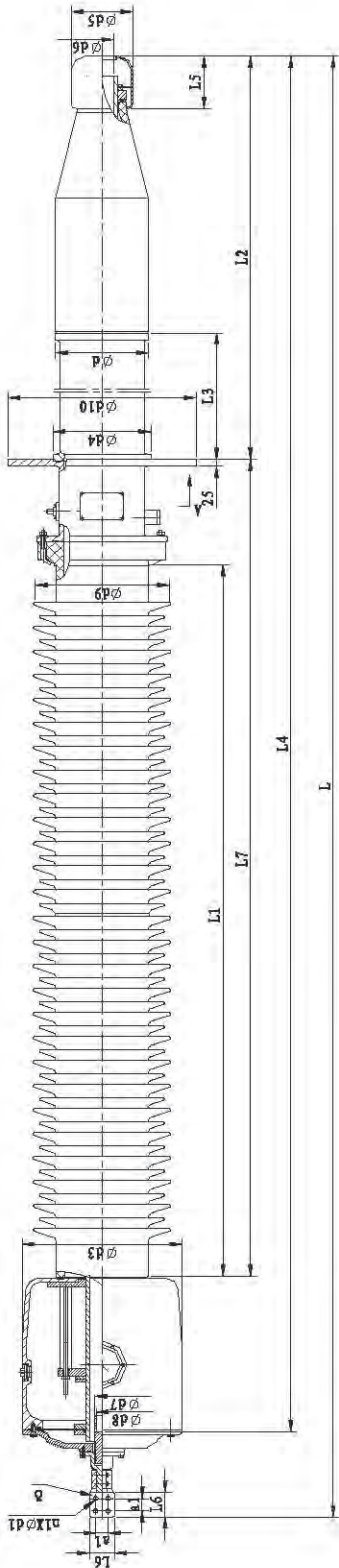


Main performance		GB/T 4109
Technical standard		GB/T 4109
Rated Voltage	kV	252
Rated Current	A	630, 1250
Min power frequency dry voltage withstand	kV	460
Min power frequency dry (wet) voltage withstand	kV	435
Full-wave impulse withstand voltage of lightning	kV	1050
Clipped-wave impulse withstand voltage of lightning	kV	1175
Partial discharge under the rated voltage	pC	≤10
Under 1.05 times of maximum phase voltage load		≤0.005
Bending resistant test load	N	≥4000

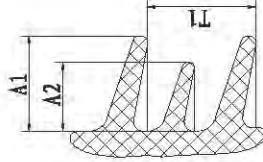
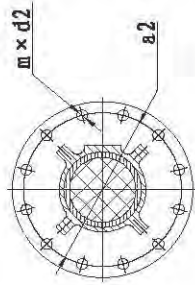


Type	Cat. No	Rated Voltage (kV)	Rated Current (A)	Wiring terminal				Total length of casing (L)	Oil drum diameter	Oil pillow to the flange distance	Lead connector		On the porcelain				Flange				Under the porcelain sleeve length	Average pressure (bar)	Conductive tube diameter	Casing weight (kg)											
				Panel surface L6 x L6	Hole distance a1	Hole number n1	Aperture d1				Thread specification	Welding cable diameter	Welding cable hole depth	Effective insulation distance	Nominal creepage distance	Maximum diameter of umbrella	Large umbrella out of range	Small umbrella out of range	Big umbrella spacing	The average diameter of umbrella					Outside diameter of the flange	Center distance of installation hole	Open holes	Hole number m	Aperture d2	Inner diameter of sealing surface	The length of oil in the surface ground	The flange thickness	Oil earthed length	Maximum diameter of oil	Diameter
BRLW-252/630-3	356075D	252	630	80 x 80	15	40	4	14	4030	370	2410	M33 x 1.5	32	50	2130	6930	400	65	47	72	345	550	500	12	19	300	550	25	1380	265	700	130	236	55	550
BRLW-252/630-3	356091D	252	630	80 x 80	15	40	4	14	4530	370	2410	M33 x 1.5	32	50	2130	6930	400	65	47	72	345	550	500	12	19	300	750	25	1880	265	1000	130	236	55	590
BRLW-252/630-3	356091D.1	252	630	80 x 80	15	40	4	14	4530	370	2410	M33 x 1.5	32	50	2130	6930	400	65	47	72	345	550	500	12	19	300	750	25	1880	265	1000	130	236	55	590
BRLW-252/630-4	356093D	252	630	80 x 80	15	40	4	14	4730	370	2610	M33 x 1.5	32	50	2330	8595	420	75	57	75	368	550	500	12	19	300	750	25	1880	265	1000	130	236	55	610
BRLW-252/630-4	356093D.1	252	630	80 x 80	15	40	4	14	4730	370	2610	M33 x 1.5	32	50	2330	8595	420	75	57	75	368	550	500	12	19	300	750	25	1880	265	1000	130	236	55	610
BRLW-252/630-4	356082D	252	630	80 x 80	15	40	4	14	4230	370	2610	M33 x 1.5	32	50	2330	8595	420	75	57	75	368	550	500	12	19	300	550	25	1380	265	700	130	236	55	570
BRLW-252/630-4	356083D	252	630	80 x 80	15	40	4	14	4430	370	2610	M33 x 1.5	32	50	2330	8595	420	75	57	75	368	550	500	12	19	300	750	25	1580	265	700	130	236	55	580

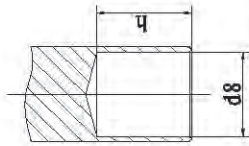
252kV/630~1250A put cable structure oilpaper capacitive transformer bushing



A — A



Umbrella structure diagram

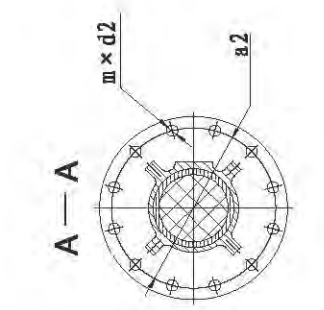
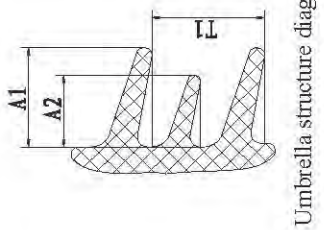
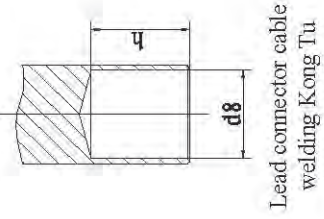
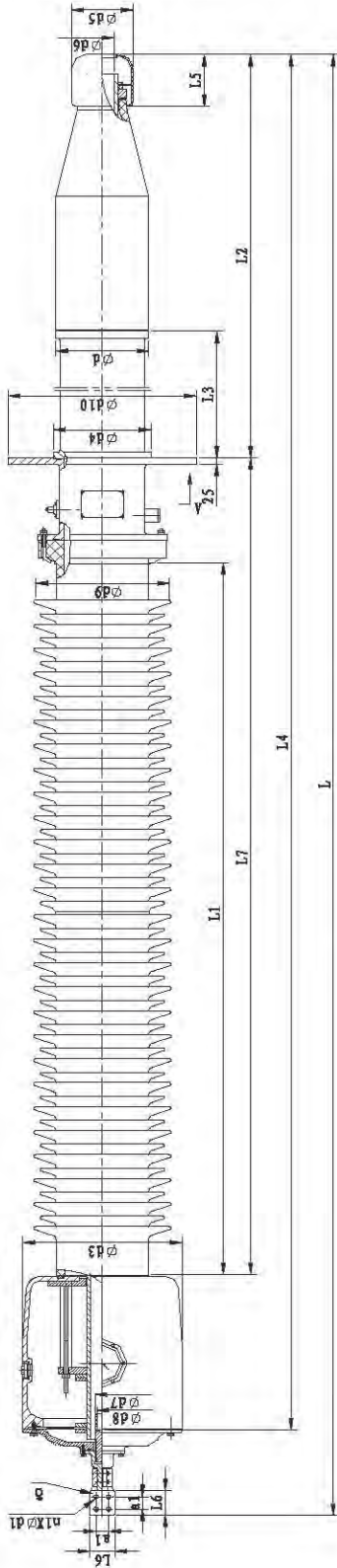


Lead connector cable welding Kong Tu

Main performance	
Technical standard	GBT 4109
Rated Voltage	kV 252
Rated Current	A 630、1250
Min power frequency dry voltage withstand	kV 460
Min power frequency dry (wet) voltage withstand	kV 435
Full-wave impulse withstand voltage of lightning	kV 1050
Clipped-wave impulse withstand voltage of lightning	kV 1175
Partial discharge under the rated voltage	pC ≤10
Under 1.05 times of maximum phase voltage tanδ	≤0.005
Bending resistant test load	N ≥4000

Type	Cat. No	Rated Voltage (kV)	Rated Current (A)	Total length of casing (L)	Wiring terminal			Oil drum diameter	Oil pillow to the flange distance	Lead connector			On the porcelain				Flange				Oil earthed length	Maximum diameter of oil	Under the porcelain sleeve length		Average pressure ball		Casing weight									
					Panel surface	Board thickness	Hole distance			Hole number	Aperture	Effective insulation distance	Nominal creepage distance	Maximum diameter of umbrella	Large umbrella out of range	Small umbrella out of range	Big umbrella spacing	The average diameter of umbrella	Outside diameter of the flange	Center distance of the hole			Openholes	Hole number	Aperture	Inner diameter of sealing surface		The length of the oil in the ground	The flange thickness	L2	D	L8	High	Diameter	d6	kg
BRLW-252/1250-3	356080D	252	1250	4420	100 x 100	16	50	4	18	4030	370	2410	M48 x 2	46	50	2130	6930	400	75	57	75	368	550	500	12	19	300	550	25	1380	265	700	130	236	58	560
BRLW-252/1250-3	356094D	252	1250	4720	100 x 100	16	50	4	18	4330	370	2410	M48 x 2	46	50	2130	6930	400	75	57	75	368	550	500	12	19	300	550	25	1680	265	1000	130	236	58	590
BRLW-252/1250-3	356095D	252	1250	4920	100 x 100	16	50	4	18	4530	370	2410	M48 x 2	46	50	2130	6930	400	75	57	75	368	550	500	12	19	300	750	25	1880	265	1000	130	236	58	600
BRLW-252/1250-3	356095D.1	252	1250	4920	100 x 100	16	50	4	18	4530	370	2410	M48 x 2	46	50	2130	6930	400	75	57	75	368	700	680	12	19	300	750	25	1880	265	1000	130	236	58	600
BRLW-252/1250-3	356127D	252	1250	4420	100 x 100	16	50	4	18	3900	370	2410	M48 x 2	46	50	2130	6930	400	75	57	75	368	700	680	12	19	300	550	25	1380	265	700	130	236	58	560
BRLW-252/1250-4	356084D	252	1250	4620	100 x 100	16	50	4	18	4230	370	2610	M48 x 2	46	50	2330	8595	420	75	57	75	368	550	500	12	19	300	550	25	1380	265	700	130	236	58	580
BRLW-252/1250-4	356097D	252	1250	5120	100 x 100	16	50	4	18	4730	370	2610	M48 x 2	46	50	2330	8595	420	75	57	75	368	550	500	12	19	300	750	25	1880	265	1000	130	236	58	620

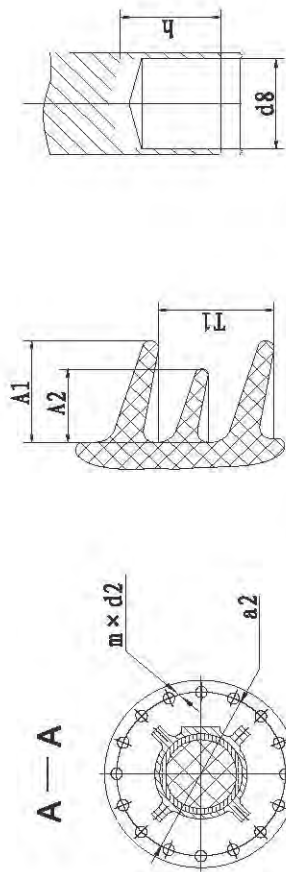
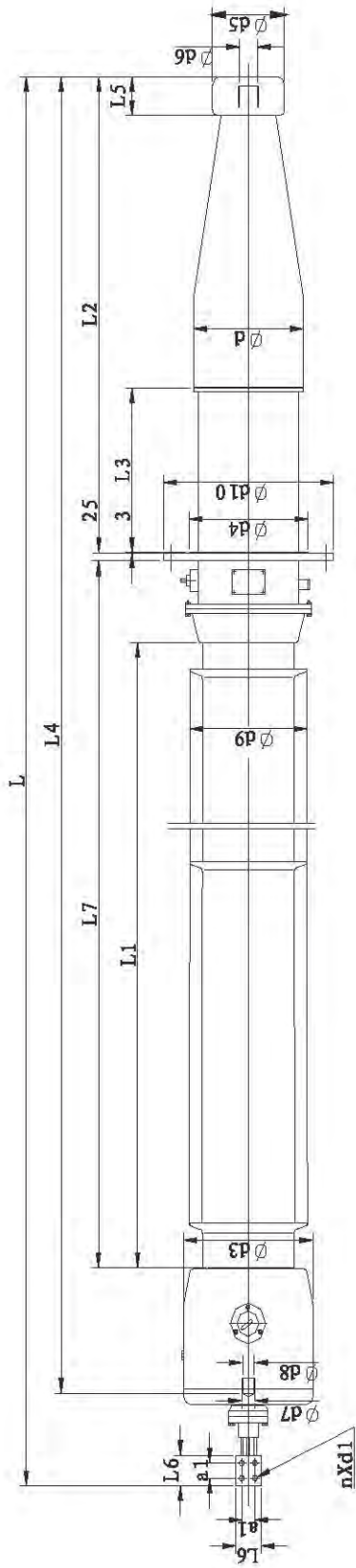
252kV/630~1250A put cable structure oilpaper capacitive transformer bushing



Main performance		GB/T 4109
Technical standard		GB/T 4109
Rated Voltage	kV	252
Rated Current	A	630, 1250
1min power frequency dry voltage withstand	kV	460
1min power frequency dry (wet) voltage withstand	kV	435
Full-wave impulse withstand voltage of lightning	kV	1050
Clipped-wave impulse withstand voltage of lightning	kV	1175
Partial discharge under the rated voltage	pC	≤10
Under 1.05 times of maximum phase voltage tanδ		≤0.005
Bending resistant test load	N	≥4000

Type	Cat. No	Rated Voltage (kV)	Rated Current (A)	Total length of casing (L)	Wiring terminal				Oil drum diameter d3	Oil pillow to the flange distance L7	Lead connector			On the porcelain				Flange				Oil earthed length L2	Maximum diameter of oil D	Average pressure (kPa)		Casing weight kg					
					Panel surface I6 x I6	Hole distance a1	Hole number n1	Aperture d1			Thread specification	Welding cable diameter d8	Welding cable hole depth h	Effective insulation distance L1	Nominal creepage distance S	Maximum diameter of umbrella d9	Large umbrella out of range A1	Small umbrella out of range A2	Big umbrella spacing T1	The average diameter of umbrella	Outside diameter of the flange d10			Center distance of installing hole a2	Open holes		Hole number m	Aperture d2	Inner diameter of sealing surface d4	The length of the oil in the surface ground L3	The flange thickness
BRLW-252/1250-4	356097D.1	252	1250	5120	100 x 100	16	50	4	18	M48 x 2	46	50	2330	8595	420	75	368	550	500	12	24	300	750	25	1880	265	1000	130	236	58	620
BRLW-252/1600-3	356086D	252	1600	4680	125 x 125	16	60	4	18	M48 x 2	48	50	2130	6930	400	65	47	345	550	12	24	300	650	25	1605	265	700	251	260	58	560
BRLW-252/1600-4	356129D	252	1600	4820	100 x 100	16	50	4	18	M48 x 2	46	50	2130	8595	400	75	368	550	12	19	300	750	25	1580	265	700	130	236	58	590	
BRDLW-252/630-3	356112D	252	630	4220	80 x 80	15	40	4	14	M33 x 1.5	32	50	2130	6930	400	65	47	345	550	12	24	300	550	25	1220	265	570	110	236	55	540
BRDLW-252/630-3	356125D	252	630	4120	80 x 80	15	40	4	14	M33 x 1.5	32	50	2130	6930	400	65	47	345	550	12	24	300	450	25	1120	265	570	110	236	55	530
BRDLW-252/630-4	356113D	252	630	4420	80 x 80	15	40	4	14	M33 x 1.5	32	50	2330	8595	420	75	368	550	12	24	300	550	25	1220	265	570	110	236	55	560	
BRDLW-252/1250-4	356124D	252	1250	4700	100 x 100	16	50	4	18	M48 x 2	46	50	2330	8595	420	75	368	550	12	24	300	650	25	1440	265	570	230	260	58	575	

363kV/630A put cable structure oilpaper capacitive transformer bushing

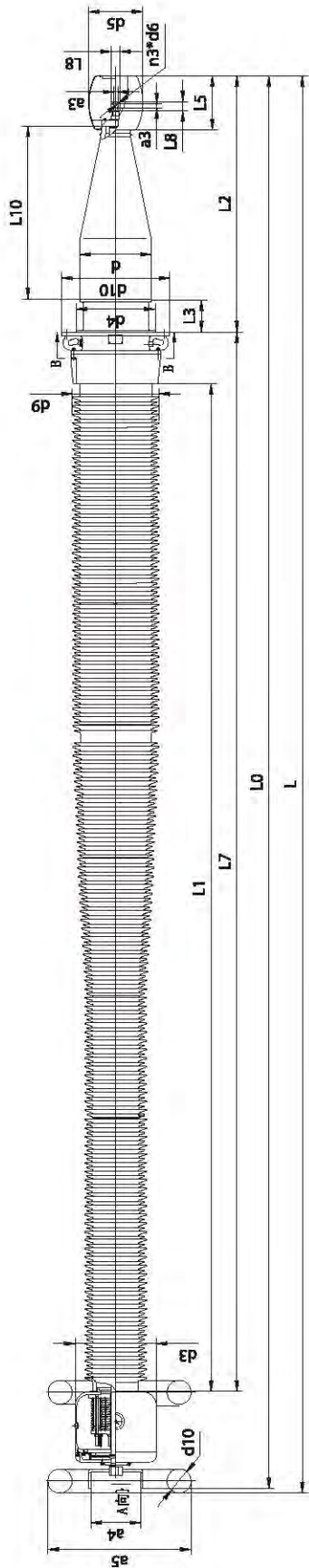


Umbrella structure diagram Lead connector cable welding Kong Tu

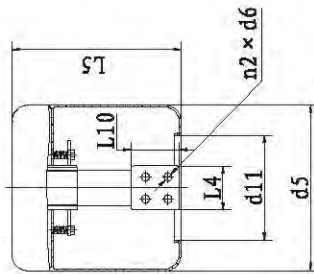
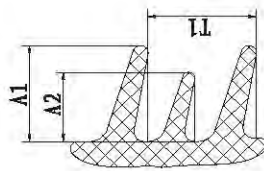
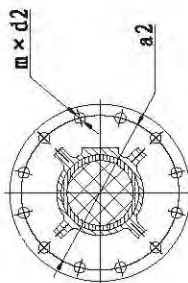
Main performance		GB/T 4109
Technical standard		363
Rated Voltage	kV	630
Rated Current	A	570
1min power frequency dry voltage withstand	kV	570
1min power frequency dry (wet) voltage withstand	kV	1225
Full-wave impulse withstand voltage of lightning	kV	1354
Clipped-wave impulse withstand voltage of lightning	kV	950
Switching impulse withstand voltage	kV	≤10
Partial discharge under the rated voltage	pC	≤0.005
Under 1.05 times of maximum phase voltage tanδ		≥2500
Bending resistant test load	N	

Type		Cat. No	Rated Voltage (kV)	Rated Current (A)	Total length of casing (L)	Wiring terminal				The introduction of cable length		Lead connector				On the porcelain				Flange				Oil earthed length		Under the porcelain sleeve length		Average pressure		Casing weight		
						Panel surface I6 x I6	Hole distance a1	Hole number n1	Aperture d1	L4	L5	Thread specification	Welding cable diameter d8	Welding cable hole depth h	Effective insulation distance L1	Nominal creepage distance S	d9	A1	A2	Small umbrella out of range A2	Big umbrella spacing T1	The average diameter of umbrella	Outside diameter of the flange d10	Center distance of installation hole a2	Open holes	Aperture d2	Hole number m	The inner diameter of sealing surface d4	The length of the oil in the surface ground L3	The flange thickness	Maximum diameter of oil D	L2
BRDLW-380/1250-3	357006D	363	1250	5800	520	3460	M48 x 2	46	50	3115	9600	495	60	42	75	442	650	600	16	24	400	550	30	1585	395	900	130	280	70	850		
BRDLW-363/630-4	357007D	363	630	6535	520	4150	M48 x 2	46	50	3805	11255	495	60	42	75	442	650	600	16	24	400	550	30	1650	375	900	200	280	70	980		

800kV~1100kV oilpaper capacitive transformer bushing



A — A



Equalizing ball and wiring board

Main performance		GB/T 4109
Technical standard	kV	840, 1100
Rated Voltage	A	1250, 2500
Rated Current	kV	960 (1 min), 1200 (5 min)
Short duration power-frequency withstand voltage	kV	1675
Full-wave impulse withstand voltage of lightning	kV	1927
Clipped-wave impulse withstand voltage of lightning	kV	1900
Switching impulse withstand voltage	pc	≤0.005
Under 1.05 times of maximum phase voltage tanδ	pc	≤5
Partial discharge of 1.05 times the maximum voltage	pc	≤10
Minimum nominal creepage distance	mm/kV	≥25
Minimum creepage distance	mm	≥24900, ≥31000
Bending resistant test load	N	≥6000, ≥5000

Type	Cat. No	Rated Voltage (kV)	Rated Current (A)	Main Dimensions mm																																				
				Wiring board to a lower end length (L)	Strapping	Wiring terminal	Intrabundle spacing	Oil plow to the flange distance	Thread specification	Lead connector	On the porcelain			Flange			Oil	The lower wiring board																						
BREDLW-750/2500-3	359001D	750	2500	10825	850	150	4	125 x 125	20	60	4	18	620	6950	M16	h	6650	24800	690	780	711	12	32	630	605	30.5	2515	546	1420	80 x 85	40	4	14	500	500	3800				
BREDLW-800/1250-4	359401D	800	1250	10810	950	200	2	120 x 125	60	4	18	415	620	7300	M16	h	7300	24800	690	780	711	12	32	630	430	35	2020	546	1420											
BREDLW-1100/2500-3	359451	1100	2500	12010	150	155	80	4	18	440	11035	750	8635			8155	31000	800	1020	950	16	36	700	300	40	2400	660	1600												
BREDLW-1100/2500-3	359452	1100	2500	13520	150	155	80	4	18	440	12515	750	10025			9545	36900	800	1200	1100	36	32	700	380	26	2490	650	1700												



NANJING ELECTRIC (GROUP) CO.,LTD
NANJING ELECTRO-CERAMIC FACTORY

ADDRESS: No. 63 TAIXIN ROAD, NANJING, JIANGSU

POSTCODE: 210038

TEL: 0086-025-85312093 85372060 85372038

FAX: 0086-025-85372060 85312093

http: //www.LD-cn.com

E-mail: njdc@LD-cn.com