

OFERTA TEHNICĂ

Nr	Denumirea	**Referința producătorului	Cantitatea	Term. de livrare
1	Treceți izolate 110 kV cu izolația de tip condensator pentru transformatoare de forță	Treceți izolate TIP – CGRBJL-110/800 Dry type condenser transformer bushing (see attached drawing and technical data) Um=135kV, Ir=800A Draw lead type bushing Package: 2600mm*585mm*680mm Gross weight: 300kg/case	un. 5	90 zile

****Producator: Baoding Hewei Power Technology Co.,Ltd.**

- Livrarea:** SRL Electrocon va efectua livrarea în condițiile DDP Chișinău, depozit Central IS “MOLDELECTRICA”- or. Chișinău str. Ciocana 8, conform INCOTERMS 2010 și a cerințelor stabilite de către Organizator. (SRL Electrocon suporta toate cheltuielile și riscurile legate de aducerea marfii în acest loc inclusiv a taxelor vamale, și a altor taxe, speze oficiale care se plătesc la import, precum și a costurilor și riscurilor de îndeplinire a formalităților vamale.)
- Descarcarea materialelor:** - va fi efectuată de către IS MOLDELECTRICA, depozit Central - or. Chișinău str. Ciocana 8. (precum este menționat în caietul de sarcini).
- Cerinte de ambalare:** - materialele vor fi ambalate conform cerințelor și normelor ce asigură integritatea mărfii și transportarea în siguranță a acesteia.
- Termenul de îndeplinire a contractului:** 90 zile;
- Eliberarea mărfii:** - se va face în MDL, la cursul oficial al BNM în ziua perfectării documentelor fiscale;
- Termenul de achitare** – 30 zile din momentul primirii bunurilor.

Data: 12 februarie 2026
SRL „ELECTROCON”





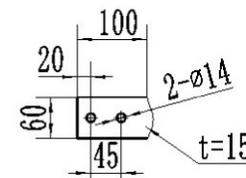
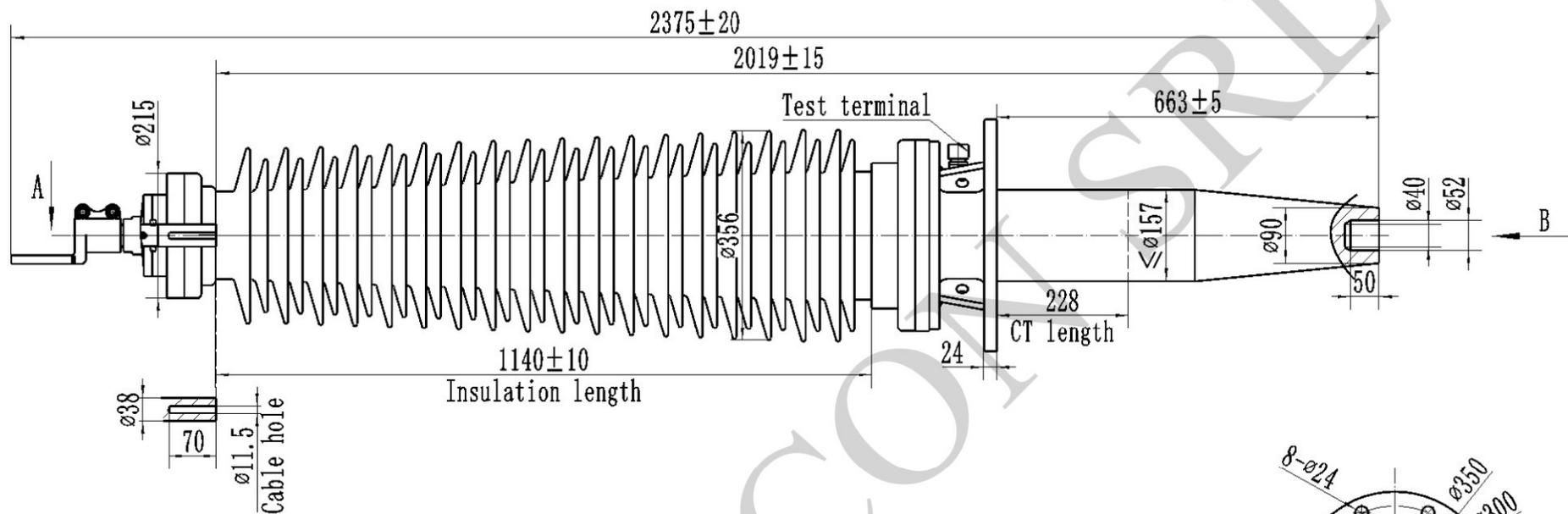
SPECIFICAȚIA TEHNICĂ
TRECERI IZOLATE CU IZOLAȚIE DE TIP
CONDENSATOR

ANEXA 1

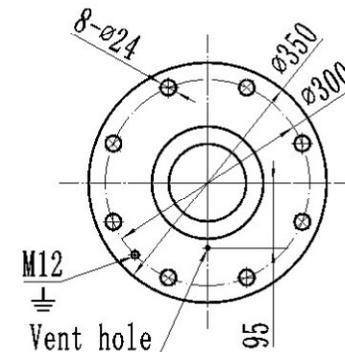
FIȘA TEHNICĂ TRECERI IZOLATE 110 kV PENTRU TRANSFORMATOARE DE FORȚĂ TIP 1
(pentru înlocuirea trecerilor izolate de tip ГБМТ-0-45-110/630 2ИЭ.800.026)

Nr crt	Caracteristica	U.M	Date tehnice solicitate	Date tehnice garantate (oferta furnizorului)
PRODUCĂTOR – Baoding Hewei Power Technology Co.,Ltd.				
TIP – CGRBJL-110/800				
ȚARA DE ORIGINE - China				
1	CONDIȚII IMPUSE DE SISTEMUL ENERGETIC			
1.1	Tensiunea nominală a sistemului	kV	110	110
1.2	Tensiunea cea mai ridicată pentru echipament Um	kV	123	135
1.3	Frecvența nominală	Hz	50	50
1.4	Tensiuni de ținere față de pământ			
1.4.1	la impuls de trăsnet 1,2/50μs	kVmax	550	550
1.4.2	la frecvența industrială	kV	230	230
2	CONDIȚII CLIMATERICE ȘI DE MEDIU			
2.1	Temperatura mediului ambiant	°C	-40 / +40	-40 / +40
2.2	Radiația solară maxima	kW/m ²	1,1	1,1
2.3	Locul de montaj		exterior	exterior
2.4	Altitudine	m	≤1000	≤1000
2.5	Umiditatea relativă a aerului	%	100	100
2.6	Grosimea stratului de gheață	mm	24	24
2.7	Clasa seismică conform MSK 64		8	8
3	CARACTERISTICI ELECTRICE			
3.1	Tensiunea nominală (Ur)	kV	123	123
3.2	Curent nominal (Ir)	A	800	800
3.3	Curent de scurtcircuit limita termic (1sec)	kA	20	20
3.4	Curent dinamic nominal minim	kA	50	50
3.5	Nivelul de izolație			
3.5.1	la impuls de trăsnet (1,2/50)	kVmax	550	550
3.5.2	la frecvența industrială (50Hz 1min)	kVef	230	265
3.6	Nivelul maxim al descărcărilor parțiale			
3.6.1	la Ur	pC	10	10
3.6.2	la 1,05Ur/√3	pC	5	5
4	CERINȚE CONSTRUCTIVE SOLICITATE			
4.1	Izolația externă		porțelan electrotehnic	Electrotechnical porcelain
4.2	Izolația internă		RIP/RIS	RIP/RIS
4.3	Linia de fugă specifică minimă	cm/kV	2,25	3,1
4.4	Borna de control ale parametrilor de izolație		Da	Yes

Nr crt	Caracteristica	U.M	Date tehnice solicitate	Date tehnice garantate (oferta furnizorului)
4.5	Eforturi maxime admisibile	N	1250	1250
4.6	Tip conexiune la capătul înfășurării		conductor de trecere flexibil cu borna interioară	Reserve the tube and connect the existing lexible pass-through conductor with internal terminal
4.7	Dimensiuni de gabarit			
4.7.1	lungimea trecerii	mm	≤2390	2375±20
4.7.2	lungimea părții imersate(de la flanșa de fixare)	mm	663±12	663/±5
4.8	Flanșa de fixare			Adapter flange
4.8.1	nr de găuri		8	8
4.8.2	diametrul de gaură	mm	24	24
4.8.3	diametrul flanșei	mm	350	350
4.8.4	diametrul centrelor de găuri	mm	300	300
5	ÎNCERCĂRI			
5.1	Încercări de tip conform IEC 60137 și capitolul 5 al ST		Da	Yes
5.2	Încercări individuale conform IEC 60137 și capitolul 5 al ST		Da	Yes
5.3	Încercări de tip și individuale vor fi efectuate în laboratoare certificate conform ISO/IEC 17025		Da	Yes
6	CONDIȚII DE ASIGURARE A CALITĂȚII ȘI PROTECȚIA MEDIULUI			
6.1	Condiții de asigurare a calității protecției mediului sănătății și securității în muncă conform ISO 9001, ISO 14001, OHSAS 18001 și standardelor de calitate, mediu, și sănătate în muncă asociate lor		Da	Yes



A (Terminal size)



B (The flange)

Technical requirements:

1. Ur: 110kV
2. Um: 135kV
3. Running voltage: 78kV
4. Ir: 800A
5. Frequency: 50Hz
6. Dry lightning impulse voltage withstand: 550kV
7. Wet power-frequency voltage withstand: 230kV
8. Dry power-frequency voltage withstand: 265kV
9. $1.5U_m/\sqrt{3}$ kV discharge: $>10pC$;
10. $\tan \delta$: $\leq 0.7\%$
11. The creepage distance : 3910mm
12. Cantilever load withstand: 1250N
13. Installation angle: 0-90°
14. External insulation material: porcelain; The colour is brown

						Dry type capacitive type transformer bushings			Baoding Hwei Power Technology Co., Ltd.	
									CGRBJL-110/800	
Remark	Qty	Partition	Docu. No	Signature	Date	Revision NO.	Weight	Scale	Figuration dimension	
Design			Proofread							
Audit						C		1:14		
Process			Approved			Page 1 of 1				

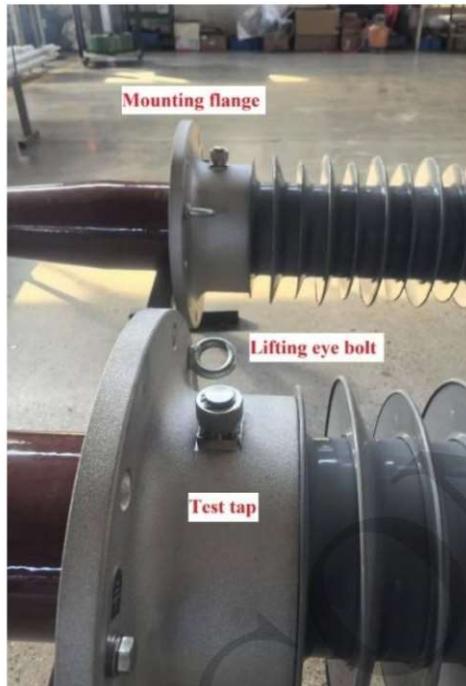


Technical Data for 110 kV dry type condenser transformer bushing

No.	Description	Unit	Offered
1	Reference standard		IEC 60137 & GOST 55187
2	Manufacturer		Baoding Hewei Power Technology Co., Ltd.
3	Type		CGRBJL-110/800
4	Inner insulation		Dry-type condenser core RIS / RIF
5	External insulation		Porcelain, brown
6	Service		Outdoor
7	Bottom connected		Draw-lead
8	Rated voltage	kV	110
9	Max voltage, Um	kV	135
10	Rated phase to earth voltage	kV	73
11	Power frequency withstand voltage, 1 min, 50Hz	kV	265
12	Lightning impulse withstand voltage	kV	650
13	Rated frequency	Hz	50~60, AC
14	Rated primary current	A	800
15	Rated thermal short time current, I _{th} , 1 sec	kA/1s	20
16	Rated dynamic current, I _d	kA	50
17	Dielectric loss Tanδ	%	less than 0.7
18	Partial discharge, 1.05Um/√3	pC	less than 10
19	Creepage distance	mm	3910
20	Arcing distance	mm	1140
21	Cantilever operating load	N	625
22	Cantilever test load	N	1250
23	CT position	mm	228
24	Flange		Weather resistant aluminium alloy
25	Test tap, earthing screw, lifting holes, air vent		Yes
26	Max angle to mounting from vertical	°	90
Climatic condition			
27	Temperature	°C	-55 to +55
28	Humidity	%	100
29	Solar radiation resistance	W/cm ²	0.11
30	Max ice thickness	mm	10
31	Ground horizontal acceleration	m/s ²	3
32	Average max wind speed sustained for 10 minutes at a height of 10 meters above ground	m/s	35
33	Altitude	m	less than 1000
34	Work life	year	more than 30
35	Warranty	year	2
Transport info			
36	HS code		8546900000
37	Net weight	kg	230
38	Gross weight	kg	300
39	Package size	mm	2600mm*585mm*680mm

Photos for reference only.

Final product specifications are subject to the approved technical drawings







Dry-type Condenser Bushing

Introduction

FBRGL condenser bushing is used to safely transfer power through the earthed transformer tank, wall or reactor, etc. OIP and RIP type bushings have been used for transformers for many years. However, with the aging of transformer accessories and the decrease in humidity resistance of insulation paper in bushings, these bushings may fail. Therefore, RIF and RIS have emerged. The RIF technology has been on the market since the early 2000s.

Resin-Impregnated Fiberglass (RIF) Core

The core consists of multi-layer resin-impregnated fiberglass wound around a central conductor, with embedded semi-conductive layers to ensure uniform electric field distribution, high dielectric strength, and long-term reliability.

Advantage

- Installation at any angle.
- Shorter production time.
- Easier handling for transportation and storage.
- Not affected by humidity.
- Uniform Electric Field – Eliminates stress concentration points for stable operation.
- Environmental Resilience – Silicone rubber housing resists pollution, moisture, and UV, minimizing flashover risk.
- High Electrical Performance – Very low PD and $\tan \delta$, meeting IEC/IEEE standards.
- True Dry Design – No insulating oil, SF₆, or additional impregnation required.
- Maintenance-Free & Explosion-Proof – Durable, safe, and ideal for harsh sites.
- Wide Voltage Range – Suitable for up to 252 kV systems.

Hewei Power provides a high level of customization.





Production process

RIF condenser bushings use high-insulation glass fiber impregnated with epoxy resin. The winding process is microcomputer-controlled, crossing and stacking insulation layers along the geodesic. With a special mechanical paving design, the bushings have high mechanical strength, withstand harsh environments, and exceed magnitude 9 earthquake resistance at 0.4 g. The flange, made of high-strength aluminum alloy, is bonded with the condenser core. External insulation is sealed with silicone rubber sheds or porcelain insulators. The conductor is either a draw lead or rod type.

Applications

- Power and distribution transformers
- GIS Equipment or Renewable energy grids
- HVDC converter stations

This dry-type bushing delivers high performance, reliability, and eco-friendly operation—an advanced solution for modern high-voltage networks.

Standards

IEC 60137 Insulated bushing for alternating voltages above 1000V

GB/T4109 Insulated bushing for alternating voltages above 1000V

IEEE C57.19.00 General Requirements and Test Procedure for Power Apparatus Bushings

Key technical parameters- IEC 60137												
Highest voltage for equipment Um	kV	24	36	52	72.5	100	123	145	170	245	300	362
Rated frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power frequency withstand voltage 1 minute	kV	50	70	90	140	185	230	275	325	460	460	510
Lightning impulse (BIL)	kV	125	170	250	325	450	550	650	750	1050	1050	1174
Switching impulse (SIL)	kV	/	/	/	/	/	/	/	/	850	850	950
Max rated Current	A	12000	10000	6000	4000	4000	4000	4000	3150	3150	3150	3150

Key technical parameters-- IEEE C57.19.01-2017											
Highest voltage for equipment Um	kV	25	34.5	46	69	115	138	161	230	345	
Rated frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power frequency withstand voltage 1 minute	kV	60	80	105	160	260	310	365	425	520	
Lightning impulse (BIL)	kV	150	200	250	350	550	650	750	900	1175	
Switching impulse (SIL)	kV	/	/	/	/	/	/	/	/	835	
Max rated Current	A	12000	10000	6000	4000	4000	4000	3150	3150	3150	



Production

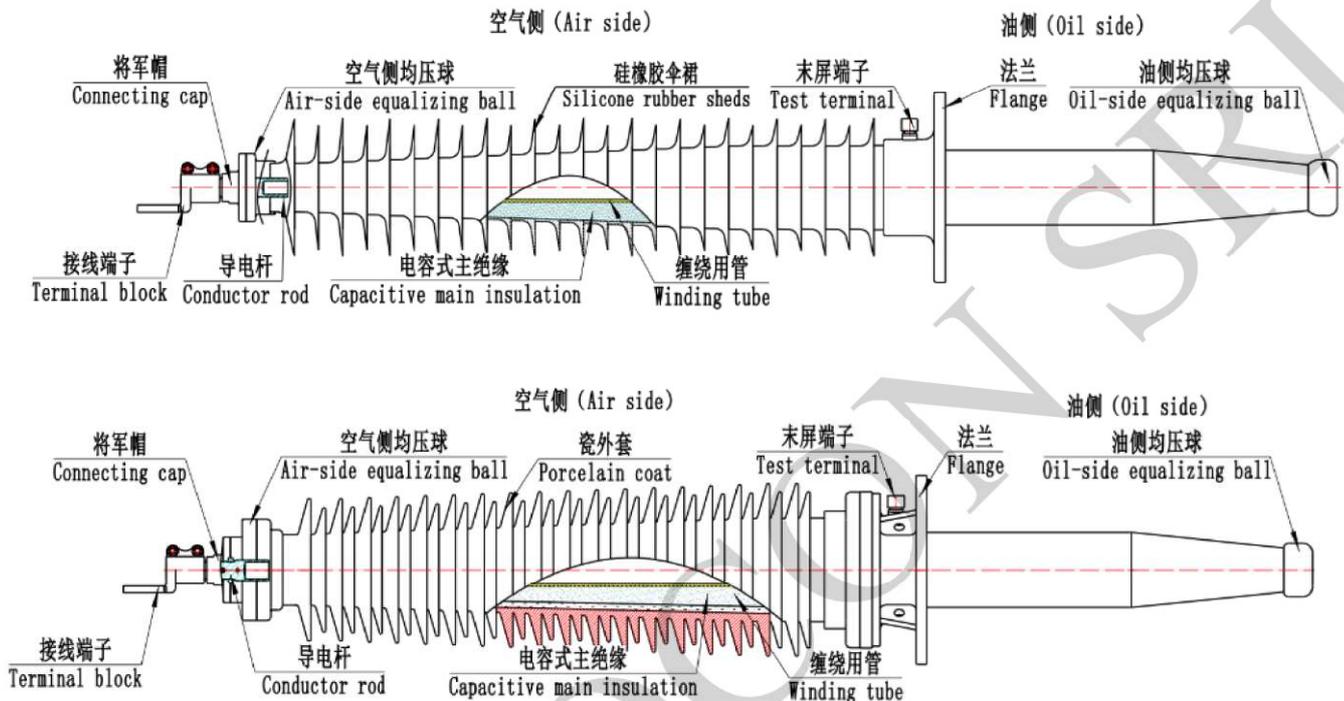
- 1, Raw material preparation.
- 2, Primary insulation, resin impregnated fiberglass winding.
- 3, Intermediate test.
- 4, Machining and cutting into custom shapes.
- 5, Assemble the flange and condenser core with HV electrical insulation filling gel.
- 6, Insulation assembling, porcelain sheds or silicone rubber sheds.
- 7, Accessory installation, corona rings, clamps and test taps, etc.
- 8, Performance test, fill Ex-work test report according to the test results.
- 9, Package for delivery





Technical parameter

Drawings for RIF composite bushing and RIF porcelain bushing



Terminal block

RIF bushing is delivered with a tinned copper terminal. It's bolted to the head of the bushing for draw-lead and fixed rod of conductor.

Terminal block can be offered as a optional accessory.

Draw-lead type

The maximum continuous current rating of the draw-lead cable is determined by the size and type of the cable supplied by the transformer manufacturer.

Hewei Power offers various possibilities of draw-lead connectors to ensure a full interchangeability in case of bushing replacement.

The draw-lead has to be insulated to isolated it from the bushing center tube.

Fix rod type

Hewei Power offers extended condenser bushing flexibility and ease-of-use through the use of a fix-rod contactor. A split copper rod allows easy installation, also providing current rating beyond draw-lead ratings.

Mounting flange:

Made of Aluminum alloy, equipped with Lifting holes.

Test tap/terminal:

All bushings have a power factor tap. The tap is connected to the earth.



Technical data

Rated frequency: 50Hz、60Hz

Operation temperature: -55~+55°C

Temperature rise: ≤85K

Pollution class: III、IV

Altitude: 1000m (conferring with consumer if above 1000m)

Dielectric loss factor is not more than 0.005 under 10kV and $1.05U_m/\sqrt{3kV}$ (ambient air temperature 10~40°C).

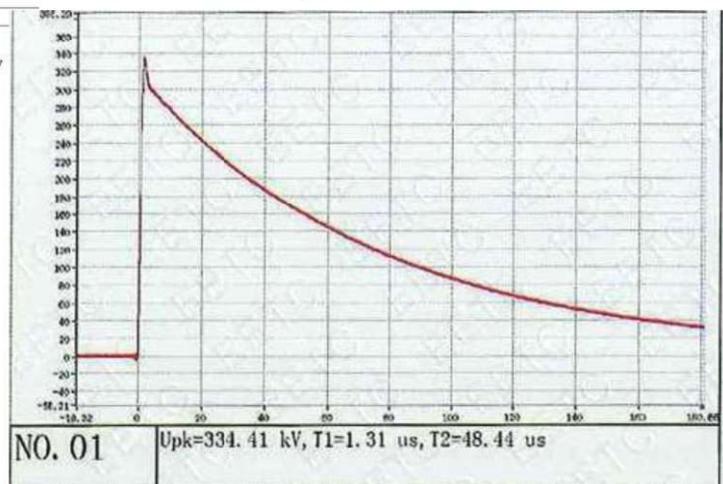
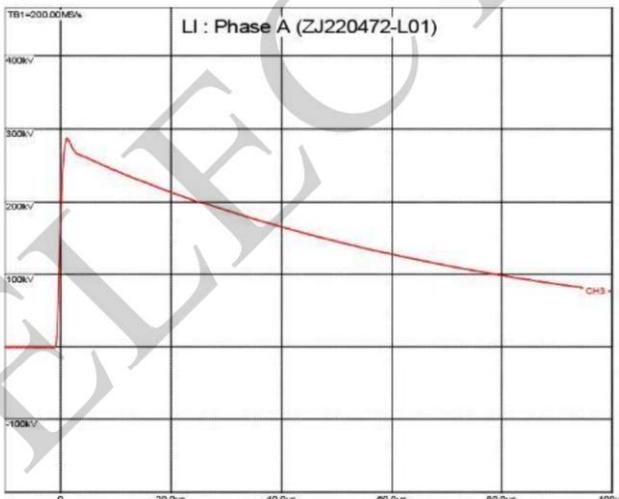
Rated short-time thermal current is 25 times rated current when time keeps up 1 second. when the bushings are handed over. In generally, there is no maintenance basically. Engineers usually check the primary winding capacity and dielectric loss factor every 2~3 years.

Highest voltage(U_m) (kV)	Rated Voltage(U_r) (kV)	Power frequency withstand voltage (kV)		BIL(kV)	pC	Tan δ (%)	Ith(kA)
		dry	wet				
12	10	28	28	75	≤10	≤0.4	25Ir
24	20	50	50	125	≤10	≤0.4	25Ir
40.5	35	95	80	200	≤10	≤0.4	25Ir
72.5	66	160(140)	140	350(325)	≤10	≤0.4	25Ir
126	110	230(185)	230(185)	550(450)	≤10	≤0.4	25Ir
252	220	460(395)	460(395)	1050(950)	≤10	≤0.4	25Ir

Dry lightning impulse voltage withstand test

RIF transformer bushing FGRBJL-126/800

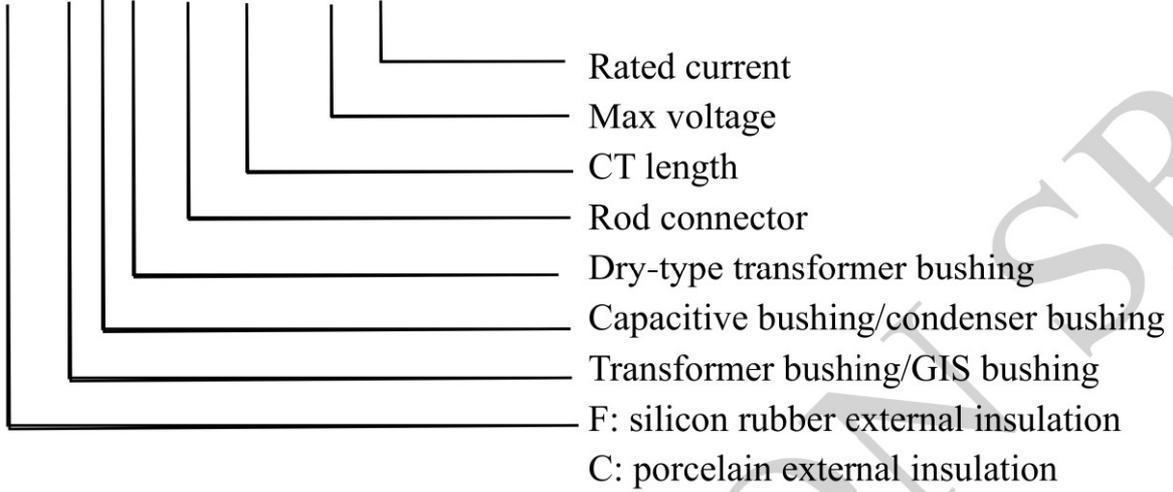
RIF wall bushing FCRGJ-126/2000





Description of bushing model

F(C) B R G (Z) (L) = X / Y



® Baoding Hewei Power Technology Co., Ltd

www.heweipower.com/www.heweidianli.cn

Email: info@heweipower.com

Tel: +86-312-7196695

Fax: +86-312-7166601

Whatsapp /Wechat: +86 15031254260

Add: Nanhan Village Industrial Zone, Mancheng District, Baoding, Hebei, China





Baoding Hewei Power Technology Co., Ltd

Donggou Village North, Nanhan Town, Mancheng District, Baoding, Hebei, China

Declaration of Conformity

We, **Baoding Hewei Power Technology Co., Ltd** here by declare that the products for this bid has been designed, manufactured, and tested in accordance with the following standards:

Type tests in conformity with IEC 60137 and cap.5 of ST.

Individual tests in conformity with IEC 60137 and cap.5 of ST.

Type and individual tests will be carried out in laboratories certitied according to ISO/IEC 17025.

The quality of environmental protection, health and safety at work will be guaranteed according to ISO 900 I, ISO 1400 I, and the quality, environment and occupational health standards associated with them.

We hereby certify that the bushings provided for this bid will be manufactured and tested in accordance with the specified standards mentioned above, and that they will meet all applicable quality and performance requirements. This certificate is issued to affirm the product's compliance and reliability.

Baoding Hewei Power Technology Co., Ltd

Feb, 11, 2026



Hewei Power ISO Certificates

ISO 9001:2015 Quality Management System

Certificate No. 06525Q01241R2S

ISO 14001:2015 Environmental Management System

Certificate No.84024E10055R0S

ISO 45001:2018 Standard & Occupational Health and Safety Management System

Certificate No.84024S10054R0S

ELECTROCON SRL



CFL CERTIFICATION CENTER
CERTIFICATION OF QUALITY MANAGEMENT SYSTEM

Registration No: 06525Q01241R2S

Baoding Hewei Power Technology Co., Ltd.

Unified social credit code: 91130607MA08D4A93F

Registered Address: Donggou Village North, Nanhuacun Town, Mancheng District, Baoding City

Production / Operation Address: Donggou Village North, Nanhuacun Town, Mancheng District,
Baoding City, Hebei Province

Complies with the requirements of
GB/T19001-2016/ISO9001:2015

The scope of certification business covers:

Production of insulated high-voltage bushings and high-voltage current transformers for
power use, sales of power fittings and accessories, and power equipment

the 1st qualified identification	the 2nd qualified identification	the 3rd qualified identification
----------------------------------	----------------------------------	----------------------------------

There must paste a new certification tag every 12 months from the date when the certificate is granted.
Otherwise the certificate will be invalid.

Certificate Effective Period: 22 May 2025 to 21 May 2028

Certificate Issue Date: 22 May 2025



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C065-M



Address: Room 418,4th floor,Building 56,Dongxinglong Street,Dongcheng District,Beijing, 100062,P.R.C.
To inquiry about the effective period of this certificate, go to website www.bjzwl.org or call: +86-10-67124736
The information about this certificate can be found on the official Certification and Accreditation Administration
of the P.R.C website: www.cnca.gov.cn



北京中物联联合认证中心
质量管理体系认证证书

注册号：06525Q01241R2S

保定和为电力科技有限公司

统一社会信用代码：91130607MA08D4A93F

注册地址：保定市满城区南韩村镇东苟村村北

生产/经营地址：河北省保定市满城区南韩村镇东苟村村北

质量管理体系符合

GB/T19001-2016/ISO9001:2015

证书覆盖业务范围

电力用绝缘高压套管、高压电流互感器的生产，
 电力金具配件、电力器材的销售

第一次监督标志粘贴处	第二次监督标志粘贴处	第三次监督标志粘贴处
------------	------------	------------

自颁证之日起，须每距上次审核 12 个月内再粘贴一次监督标志，否则证书将会无效。

证书有效期：2025 年 05 月 22 日至 2028 年 05 月 21 日 证书签发日期：2025 年 05 月 22 日



中国认可
 国际互认
 管理体系
 MANAGEMENT SYSTEM
 CNAS C065-M



地址：北京市东城区东兴隆街 56 号楼 4 层 418，邮编：100062
 证书有效性查询方式：www.bjzwl.org 电话：010-67124736
 本证书信息可在国家认证认可监督管理委员会官方网站(www.cnca.gov.cn)上查询

CERTIFICATE

ISO 14001 Environmental Management System

Certificate No.: 84024E10055R0S

This is to certify that

Baoding Hewei Power Technology Co., Ltd

Unified Social Credit Identifier: 91130607MA08D4A93F

Registered address: Donggou Village North, Nanhan Town, Mancheng District, Baoding, Hebei, China

Business address: Donggou Village North, Nanhan Town, Mancheng District, Baoding, Hebei, China

is in conformity with

GB/T24001/2016/ISO 4001:2015

The scope of certification business covers:

Environmental management activities related to the production of insulating high-voltage bushings and high-voltage current transformers for power use.

Initial Certification Date: February 6th 2024

Valid until: February 5th 2027

Approver: Zhang Haibing

批准人



The validity of this certificate must be maintained through regular surveillance audits. Certificate information can be verified on the official website of the Certification and Accreditation Administration of China (www.cnca.gov.cn).



Bochuang Zhongcheng (Beijing) Certification Service Co., Ltd.

3-1211 Floor, 16# Building, YichengYuan, Chengnanjiayuan, Fengtai District, Beijing

Original Certificate of
ISO 14001 Environmental Management
System (Chinese version)

CERTIFICATE

环境管理体系认证证书

证书号：84024E10055R0S

兹证明

保定和为电力科技有限公司

社会统一信用代码：91130607MA08D4A93F

注册地址：保定市满城区南韩村镇东苟村村北

经营地址：保定市满城区南韩村镇东苟村村北

环境管理体系符合标准：

GB/T24001-2016/ISO14001:2015

认证范围：

电力用绝缘高压套管、高压电流互感器的生产所涉及的相关环境管理活动

初次发证日期：2024年02月06日

有效期至：2027年02月05日

批准人



证书有效性需通过定期的监督审核确认保持。证书信息可在国家认证认可监督管理委员会官方网站(www.cnca.gov.cn)查询。

博创众诚(北京)认证服务有限公司

北京市丰台区城南嘉园益城园16号楼12层3-1211



CERTIFICATE

ISO 45001 Standard & Occupational Health and Safety Management System

Certificate No.84024S10054R0S

This is to certify that

Baoding Hewei Power Technology Co., Ltd

Unified Social Credit Identifier: 91130607MA08D4A93F

Registered address: Donggou Village North, Nanhan Town, Mancheng District,
Baoding, Hebei, China

Business address: Donggou Village North, Nanhan Town, Mancheng District,
Baoding, Hebei, China

is in conformity with

GB/T45001/2020/ ISO 45001:2018

The scope of certification business covers:

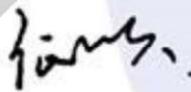
Occupational Health and Safety Management activities related to the production of insulating high-voltage bushings and high-voltage current transformers for power use.

Initial Certification Date: February 6th 2024

Valid until: February 5th 2027

Approver: Zhang Haibing

批准人



The validity of this certificate must be maintained through regular surveillance audits. Certificate information can be verified on the official website of the Certification and Accreditation Administration of China (www.cnca.gov.cn).



Bochuang Zhongcheng (Beijing) Certification Service Co., Ltd.

3-1211 Floor, 16# Building, YichengYuan, Chengnanjiayuan, Fengtai District, Beijing

Original Certificate of
ISO 45001 Standard & Occupational Health
and Safety Management System
(Chinese version)

CERTIFICATE

职业健康安全管理体系认证证书

证书号: 84024S10054R0S

兹证明

保定和为电力科技有限公司

社会统一信用代码: 91130607MA08D4A93F

注册地址: 保定市满城区南韩村镇东苟村村北

经营地址: 保定市满城区南韩村镇东苟村村北

职业健康安全管理体系符合:

GB/T45001-2020/ISO 45001:2018

认证范围:

电力用绝缘高压套管、高压电流互感器的生产所涉及的相关职业健康安全管理活动

初次发证日期: 2024年02月06日

有效期至: 2027年02月05日

批准人



证书有效性需通过定期的监督审核确认保持。证书信息可在国家认证认可监督管理委员会官方网站(www.cnca.gov.cn)查询。

博创众诚(北京)认证服务有限公司

北京市丰台区城南嘉园益城园16号楼12层3-1211



Baoding Hewei Power Technology Co., Ltd

(License info)

Registration No. : 91130607MA08D4A93F

Tax No. : 91130607MA08D4A93F

Organization Code: 91130607MA08D4A93F

ISO 9001:2015 Quality Management System:

Certificate No. 06525Q01241R2S

ISO 14001:2015 Environmental Management System:

Certificate No.84024E10055R0S

ISO 45001:2018 Standard & Occupational Health and Safety Management System:

Certificate No.84024S10054R0S

OHSAS 18001: 2017 Occupational Health and Safety Assessment Series:

Certificate No.10408S22544R0S



® www.heweipower.com; www.heweidianli.cn

Email: info@heweipower.com

Tel: +86-312-7196695

Fax: +86-312-7166601

Whatsapp /Wechat/Phone: +86 15031254260

Add: Donggou Village North, Nanhan Town, Mancheng District, Baoding, Hebei, China,



Certificate of Incorporation

(Duplication)

Unified Social Credit Identifier:
91130607MA08D4A93F



扫描二维码
登录国家
企业信用信息公示系统
查询企业
信用信息
扫描二维码
登录国家
企业信用信息公示系统
查询企业
信用信息

Company Name: Baoding Hewei Power Technology Co., Ltd.

Registration Capital: CNY 10 million

Type of Enterprise: Limited Liability corporation (investment or holdings by a natural person)

Date of Establishment: April 6th 2017

Legal Representative: Mr. Lu Yijing

Business address: Donggou Village North,
Nanhan Town, Mancheng District, Baoding,
Hebei, China

Business Scope:

Technical development, technical consultation, technical transfer and technical service of electrical equipment; manufacturing of high and medium voltage power equipment; sales of electrical equipment, power equipment, power equipment accessories and electronic components; engaging in the import and export business of the enterprise's own products and technologies, except for commodities and technologies whose import and export is restricted or prohibited by the state. (For projects that require approval as required by law, business activities may be carried out only after approval by relevant departments.)

Registration authority:

Administrative Examination and Approval Bureau
of Mancheng District, Baoding City.

登记机关

Review date:

February 4th 2024

2024年02月04日





营业执照

(副本)

副本编号:1-1



扫描二维码
登录国家企业信用信息公示系统
了解更多登记、备案、许可、监管信息

统一社会信用代码

91130607MA08D4A93F

名称 保定和为电力科技有限公司

注册资本 壹仟万元整

类型 有限责任公司(自然人投资或控股)

成立日期 2017年04月06日

法定代表人 卢义京

住所 保定市满城区南韩村镇东苟村村北

经营范围 电气设备技术开发、技术咨询、技术转让、技术服务；高中压电力设备制造；电气设备、电力设备配件、电子元件销售；经营本企业自营产品及技术的进出口业务，但国家限定公司经营或禁止进出口的商品及技术除外。（依法须经批准的项目，经相关部门批准后方可开展经营活动）

登记机关

2024年02月04日



220008349512



中国认可
国际互认
检测
TESTING
CNAS L0681



CHPTL

TEST REPORT

No : CTQC/ZJ-22. 0472

Test object name: Resin impregnated fiber(RIF) dry type
capacitive type transformer bushings

Test object type: FGRBJL-126/800

Entrusted by: Baoding Hewei Power Technology Co., Ltd.

Manufacturer: Baoding Hewei Power Technology Co., Ltd.

Kind of testing: Type tests



SHENYANG TRANSFORMER RESEARCH INSTITUTE CO., LTD.

CHINA NATIONAL TRANSFORMER QUALITY DETECTION AND TESTING CENTER

CX-F-01	Test Report	No : CTQC/ZJ-22. 0472 Total 22 Page 1
---------	-------------	--

CONTENTS

	Page
1. Type test report cover	
2. Contents.....	1
3. Signing and issuing.....	2
4. Test results.....	3~5
5. Test object parameters.....	6
6. Sample condition description.....	6
7. Standards	6
8. Test items and conclusions.....	7~22
9. Annex 1: Rating plate and outline photo(Total page 1)	
10. Annex 2: Bushing drawings(Total pages 2)	

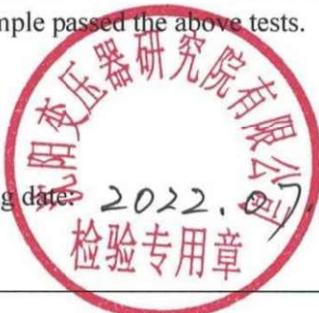
Shenyang Transformer Research Institute Co., Ltd.

China National Transformer Quality Detection And Testing Center

Test Report

No: CTQC/ZJ-22. 0472

Total 22 Page 2

Test object name	Resin impregnated fiber(RIF) dry type capacitive type transformer bushings	Test object type	FGRBJL-126/800
		Brand	/
Entrusted by	Baoding Hewei Power Technology Co., Ltd.	Kind of testing	Type tests
Manufacturer	Baoding Hewei Power Technology Co., Ltd.	Sampling date	May 07, 2022
		Test date	May 13, 2022~June 13, 2022
Address	Dagudian Village, South Korean Village and Town, Mancheng District, Baoding City, Hebei Province	Serial No	YJ-202101
Standards	IEC60137: 2017 GB/T4109-2008 Technical contract	Test items	Routine tests Type tests
Results	The test results of routine tests, type tests of FGRBJL-126/800 are in accordance with standards and technical contract. The sample passed the above tests.		
Note	  <p>Signing and issuing date: 2022. 05. 18</p>		

Approved by: Zhou Jingwei

Checked by: Du Jiansong

Compiled by: Jiang Anping

- Statement:
1. Testing report is invalid without test special seal.
 2. Testing report is invalid without compiler, checker and approver's signature.
 3. Please inform CTQC in time after received the testing report if you have some disagreement to the testing report.
 4. Testing or witnessing only apply to sample.
 5. Copying testing certificate or testing report is forbidden without written permission from CTQC(except for copying all the testing report).

Test Report

No : CTQC/ZJ-22. 0472

Total 22 Page 3

Test results

№	Test items	Specified values	Measured values	Conclusions
		Standards (Technical contract)		
1	Measurement of partial discharge quantity (Before type test)	Applied voltage (kV): U_m Partial discharge level (pC): ≤ 10	126 < 10	Passed
		Applied voltage (kV): $1.5U_m/\sqrt{3}$ Partial discharge level (pC): ≤ 10	109.1 < 10	
		Applied voltage (kV): $1.05U_m/\sqrt{3}$ Partial discharge level (pC): ≤ 5	76.4 < 5	
2	Measurement of dielectric dissipation factor ($\tan\delta$) and capacitances at ambient temperature (Before type test)	Applied voltage (kV): 2~20 $\tan\delta: \leq 0.005$ Providing capacitance of the sample(pF)	10 0.00335 440.6	Passed
		Applied voltage (kV): $1.05U_m/\sqrt{3}$ $\tan\delta: \leq 0.005$ Providing capacitance of the sample(pF)	76.4 0.00335 440.6	
		Applied voltage (kV): U_m $\tan\delta: \leq 0.005$ Providing capacitance of the sample(pF)	126 0.00335 440.7	
3	Visual inspection and dimensions check (Type test)	According to standard	See 4.3	Passed
4	Dry lightning impulse voltage withstand test (Type test)	Full wave voltage Positive polarity(kV): 513(Corrected value) $\pm 3\%$ Negative polarity (kV): 605 $\pm 3\%$ 15 positive and 15 negative polarity Chopped wave voltage (kV): 666 $\pm 3\%$ 5 negative polarity	507.6~515.9 602.0~609.9 Each 15 times 647.5~666.9 5 times	Passed
5	Wet power-frequency voltage withstand test (Type test)	Applied voltage (kV): 230 Duration(s): 60	230 60	Passed
6	Long-duration power-frequency voltage withstand test (ACLD) (Type test)	$U_1 = U_m$ (kV) Duration(s): 60	126 60	Passed
		$U_2=1.5U_m/\sqrt{3}$ Duration(min): 60 Partial discharge level (pC): ≤ 10	109.1 60 < 5	
		$1.1U_m/\sqrt{3}$ (kV) Duration(min): 5 Partial discharge level (pC): ≤ 5	80.0 5 < 5	

Test Report			№ : CTQC/ZJ-22. 0472 Total 22 Page 4	
№	Test items	Specified values	Measured values	Conclusions
		Standards (Technical contract)		
7	Radio interference voltage test (Type test)	Applied voltage (kV): $1.1U_m/\sqrt{3}$ Duration(min): 5 Radio interference level (μV): ≤ 500	80 5 200	Passed
8	Temperature rise test (Type test)	Temperature limit ($^{\circ}\text{C}$): 120 Temperature rise limit (K): 75	40.3~90.7 14.4~64.8	Passed
9	Verification of thermal short-time current withstand (Type test)	Thermal short-time current (kA): 20 Duration(s): 2 Final temperature of the conductor ($^{\circ}\text{C}$): ≤ 180	20 2 113.7	Passed
10	Cantilever load withstand test (Type test)	Applied load (N): 1250 Duration(s):60 Successfully repeat check items	1250 60 Passed	Passed
11	Measurement of partial discharge quantity (After type test)	Applied voltage (kV): U_m Partial discharge level (pC): ≤ 10	126 <5	Passed
		Applied voltage (kV): $1.5U_m/\sqrt{3}$ Partial discharge level (pC): ≤ 10	109.1 <5	
		Applied voltage (kV): $1.05U_m/\sqrt{3}$ Partial discharge level (pC): ≤ 5	76.4 <5	
12	Measurement of dielectric dissipation factor ($\tan\delta$) and capacitances at ambient temperature (After type test)	Applied voltage (kV): 2~20 $\tan\delta$: ≤ 0.005 Providing capacitance of the sample(pF)	10 0.00332 440.6	Passed
		Applied voltage (kV): $1.05U_m/\sqrt{3}$ $\tan\delta$: ≤ 0.005 Providing capacitance of the sample(pF)	76.4 0.00332 440.6	
		Applied voltage (kV): U_m $\tan\delta$: ≤ 0.005 Providing capacitance of the sample(pF)	126 0.00332 440.7	
13	Dry power-frequency voltage withstand test (Type test)	Applied voltage (kV): 255.7(Corrected value) Duration(s): 60	255.7 60	Passed
14	Visual inspection and dimensions check (Routine test)	According to standard	Sec 4.14	Passed

Test Report

No : CTQC/ZJ-22. 0472

Total 22 Page 5

№	Test items	Specified values	Measured values	Conclusions
		Standards (Technical contract)		
15	Tests of tap insulation (Routine test)	Dry power-frequency voltage withstand test on the tap: Applied voltage (kV): ≥ 2 Duration(s): 60	2 60	Passed
		Measurement of dielectric dissipation factor ($\tan\delta$) and capacitances at ambient temperature on the tap: Applied voltage (kV): ≥ 1 $\tan\delta: \leq 0.05$ Capacitance(pF) : ≤ 10000	2 0.01626 499.8	
16	Dry lightning impulse voltage withstand test (Routine test)	Full wave voltage (kV): 577.5 $\pm 3\%$ 3 negative polarity Chopped wave voltage (kV): 632.5 $\pm 3\%$ 2 negative polarity	570.8~579.4 3 times 635.5~636.5 2 times	Passed
17	Dry power-frequency voltage withstand test (Routine test)	Applied voltage (kV): 255.4(Corrected value) Duration(s): 60	255.4 60	Passed
18	Measurement of partial discharge quantity (Type test)	Applied voltage (kV): U_m Partial discharge level (pC): ≤ 10	126 <5	Passed
		Applied voltage (kV): $1.5U_m/\sqrt{3}$ Partial discharge level (pC): ≤ 10	109.1 <5	
		Applied voltage (kV): $1.05U_m/\sqrt{3}$ Partial discharge level (pC): ≤ 5	76.4 <5	
19	Measurement of dielectric dissipation factor ($\tan\delta$) and capacitances at ambient temperature (Routine test)	Applied voltage (kV): 2~20 $\tan\delta: \leq 0.005$ Providing capacitance of the sample(pF)	10 0.00332 440.6	Passed
		Applied voltage (kV): $1.05U_m/\sqrt{3}$ $\tan\delta: \leq 0.005$ Providing capacitance of the sample(pF)	76.4 0.00332 440.6	
		Applied voltage (kV): U_m $\tan\delta: \leq 0.005$ Providing capacitance of the sample(pF)	126 0.00332 440.7	
20	Tightness test at the flange (Routine test)	Applied pressure (MPa): 0.45 ± 0.01 Duration(min):20 No leakage and damage	0.45 20 No leakage and damage	Passed

Test Report		No : CTQC/ZJ-22. 0472 Total 22 Page 6				
<p>1. Test object parameters</p> <p>Highest voltage for equipment(kV): 126</p> <p>Rated phase to earth voltage(kV): $126/\sqrt{3}$</p> <p>Rated current(A): 800</p> <p>Rated frequency(Hz): 50</p> <p>Altitude(m): ≤ 1000</p> <p>Thermal class of insulation: B</p> <p>Insulation type of bushing: RIF</p> <p>Test tap(measured tap, $\tan\delta$): With</p> <p>Rated voltage of voltage tap (Potential tap, capacitance tap)(kV): 3</p> <p>2. Sample condition description</p> <p>Sample exterior construction and major dimensions(length, diameter) are in compliance with outline drawings.</p> <p>Measured values: length 2580mm, outer diameter $\Phi 400$mm.</p> <table border="1"> <thead> <tr> <th>Outline dimensions</th> <th>Rating plate</th> </tr> </thead> <tbody> <tr> <td>0HW.303.BTB001.1</td> <td>YJ-202101</td> </tr> </tbody> </table> <p>Rating plate and outline drawings see testing report annex.</p> <p>The form, performance data, specifications of sample rating plate are in compliance with drawing.</p> <p>The surface of the sample has no collision and damage.</p> <p>3. Standards</p> <p>IEC60137:2017, GB/T4109-2008 Insulated bushings for alternating voltage above 1000V</p> <p>Technical contract</p>			Outline dimensions	Rating plate	0HW.303.BTB001.1	YJ-202101
Outline dimensions	Rating plate					
0HW.303.BTB001.1	YJ-202101					

Test Report	No: CTQC/ZJ-22. 0472 Total 22 Page 7
-------------	---

4. Test items and conclusions

4.1 Measurement of partial discharge quantity (Before type test) Test date: May 13, 2022

Prestress voltage (kV)	Duration(s)	Measured voltage (kV)	Partial discharge level (pC)	Result
255	60	126.0	<10	Passed
		109.1	<10	
		76.4	<5	

Note: Background noise level was <2pC before and after test.

4.2 Measurement of dielectric dissipation factor ($\tan \delta$) and capacitances at ambient temperature (Before type test) Test date: May 13, 2022

Humidity: 37.0%; Ambient temperature: 20.5°C

Applied voltage (kV)	Dielectric dissipation factor ($\tan \delta$)	Capacitance (pF)	Result
10.0	0.00335	440.6	Passed
76.4	0.00335	440.6	
126.0	0.00335	440.7	

Note: $\tan \delta(126\text{kV}) - \tan \delta(76.4\text{kV}) = 0.00000 < 0.001$ (Standard value), passed.

4.3 Visual inspection and dimensional check (Type test) Test date: May 13, 2022

It has smooth surface, no cracks. Dimensional check is accordance with the drawing requirement.

Drawing values (mm): 2580 \pm 20 1250 \pm 10 840 \pm 10 Φ 400

Measured values (mm): 2590 1250 840 Φ 400

Arcing distance (mm): 1250

Creepage distance (mm): 4580

Result: Passed.

Test Report

No: CTQC/ZJ-22. 0472

Total 22 Page 8

4.4 Dry lightning impulse voltage withstand test (Type test)

Test date: May 14, 2022

Test atmospheric conditions: Humidity: 30.2%; Ambient temperature: 17.3°C; Atmospheric pressure: 101.6kPa.

Rated lightning impulse withstand voltage: Positive: 513kV(Corrected value) 15 positive polarity

Negative: 550kV 15 negative polarity

Chopped lightning impulse withstand voltage: 666kV 5 negative polarity

Test sequence:

One positive reference full wave impulse;

Fifteen positive rated full wave impulses;

One negative reference full wave impulse;

One negative rated full wave impulse;

One negative reference chopped wave impulse;

Five negative rated chopped wave impulses;

Fourteen negative rated full wave impulses.

Test oscillogram records:

T1: Front time;

T2: Time to half value;

Up: Peak voltage;

Tc: Time to chopping.

Result: Passed.

Test Report

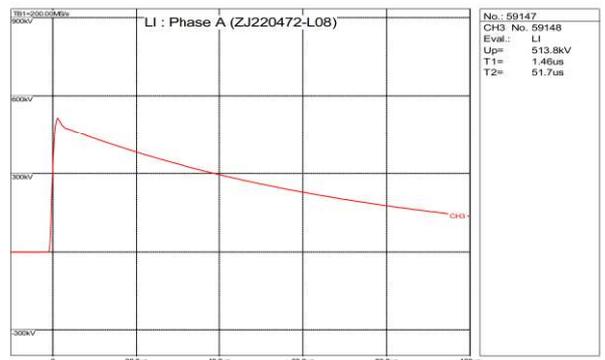
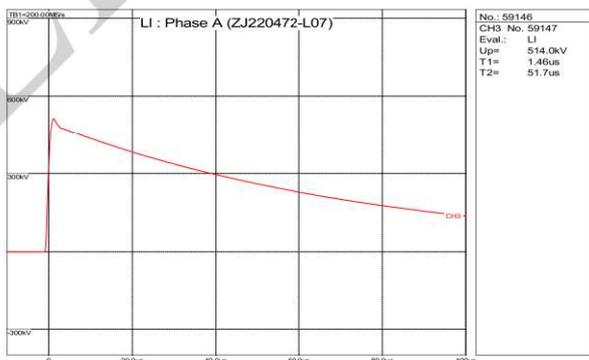
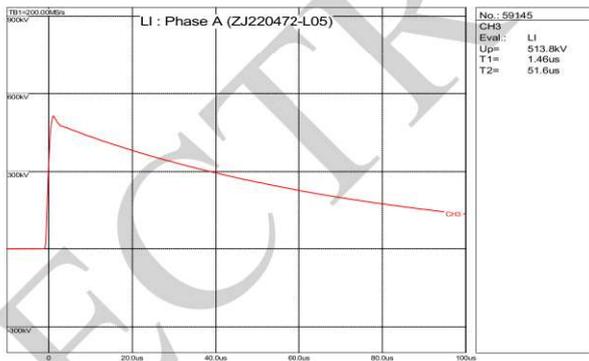
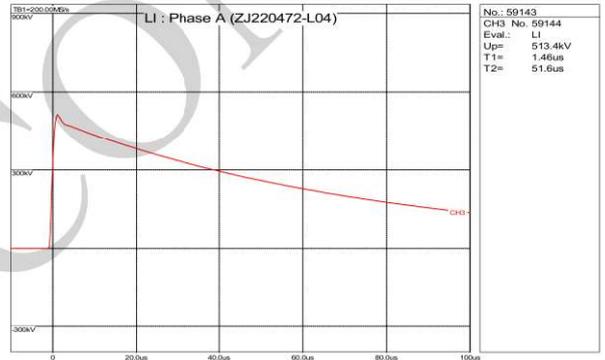
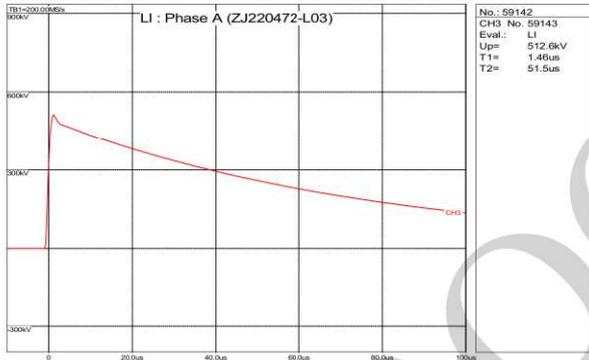
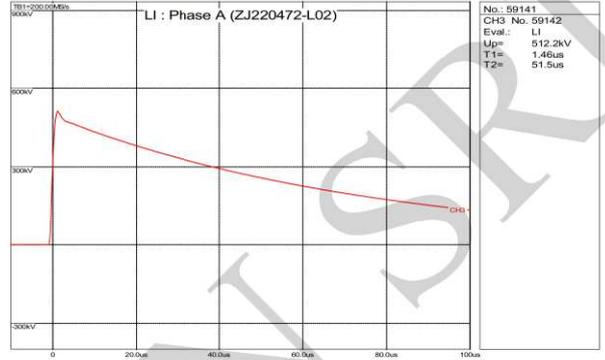
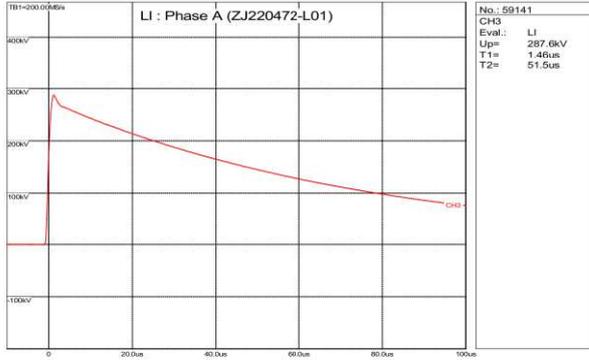
No : CTQC/ZJ-22. 0472

Total 22 Page 9

Tested terminal: To earth

Test polarity: Positive

CH1: Voltage wave



Test Report

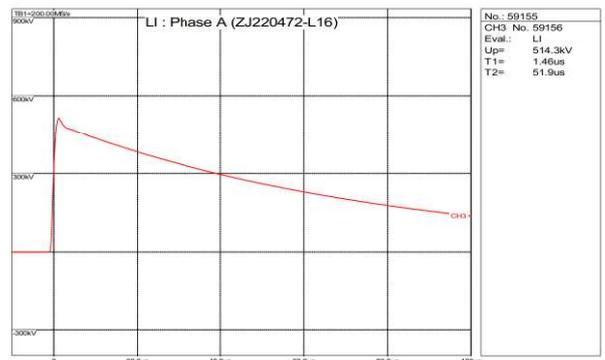
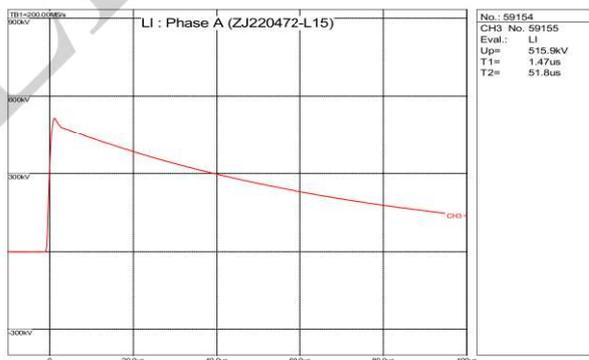
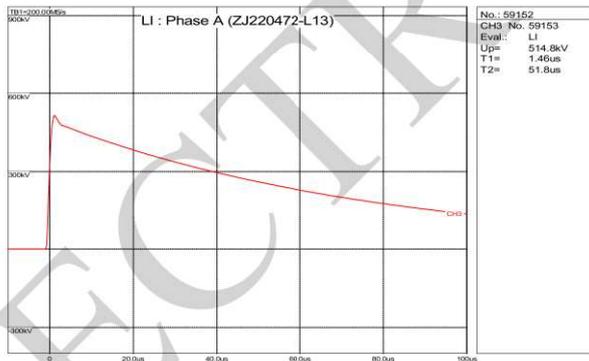
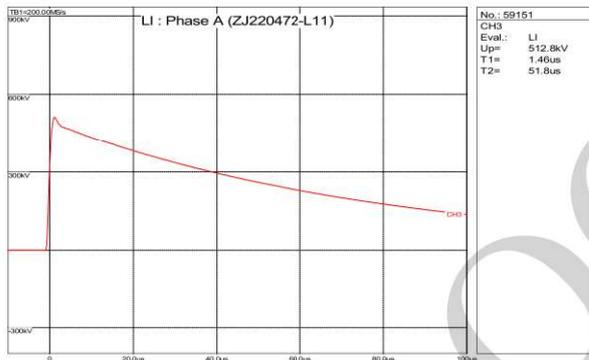
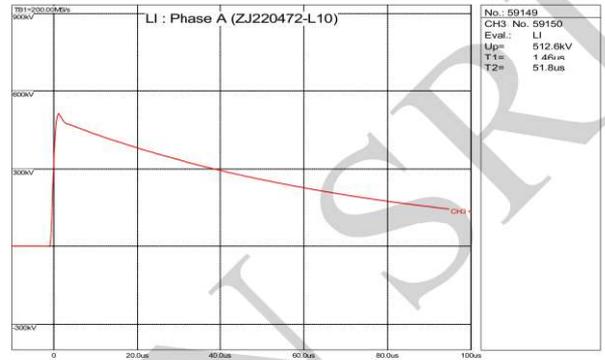
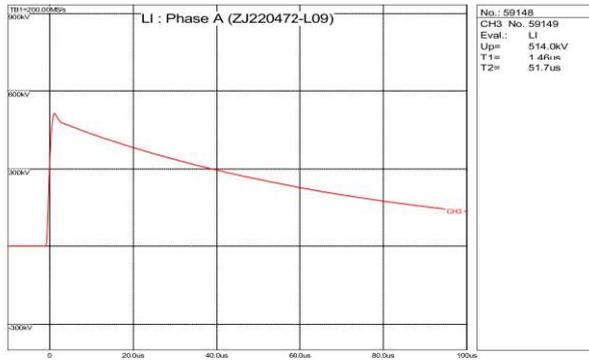
No : CTQC/ZJ-22. 0472

Total 22 Page 10

Tested terminal: To earth

Test polarity: Positive

CH1: Voltage wave



Test Report

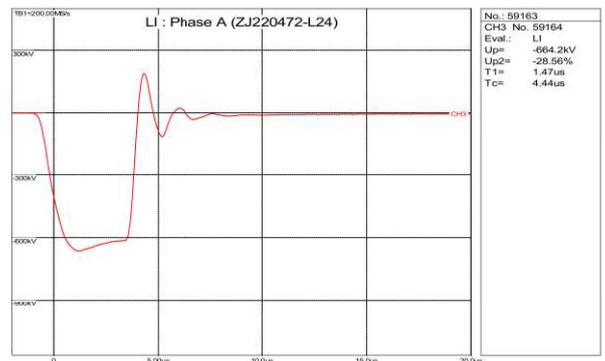
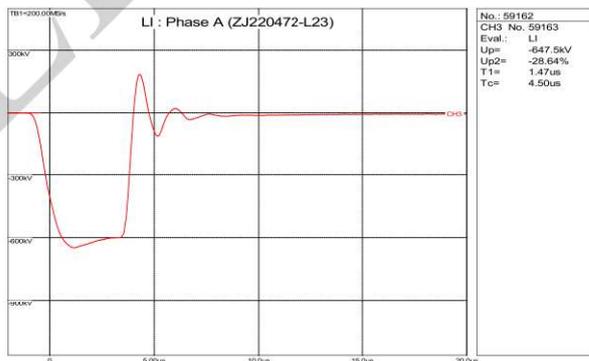
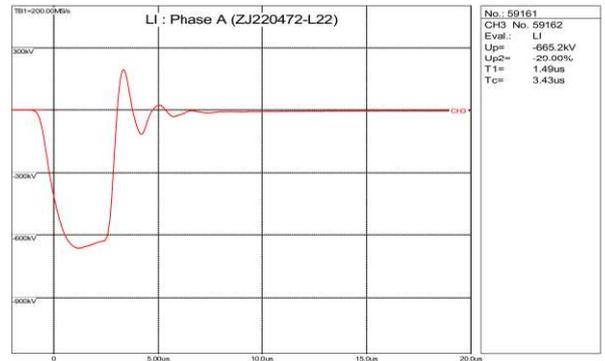
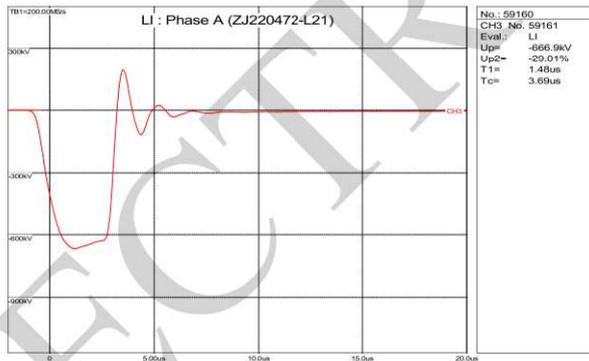
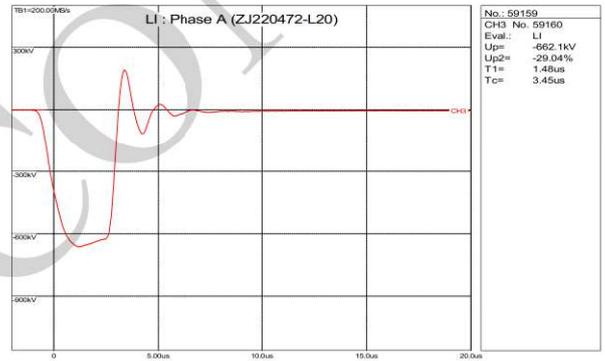
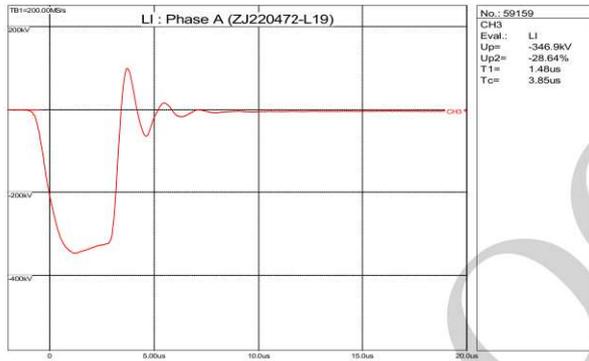
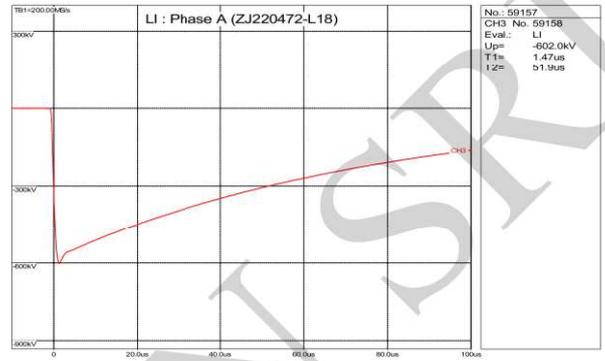
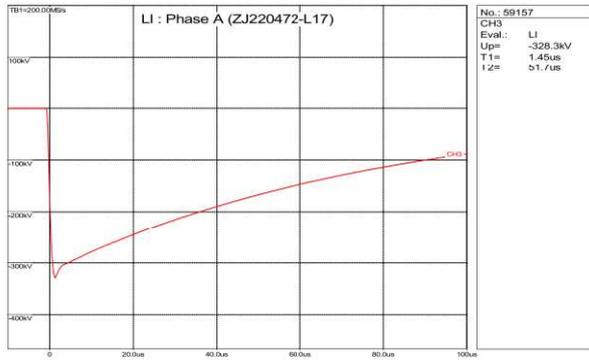
No : CTQC/ZJ-22. 0472

Total 22 Page 11

Tested terminal: To earth

Test polarity: Negative

CH1: Voltage wave



Test Report

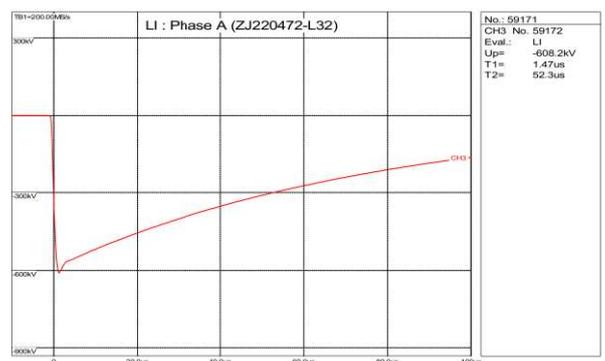
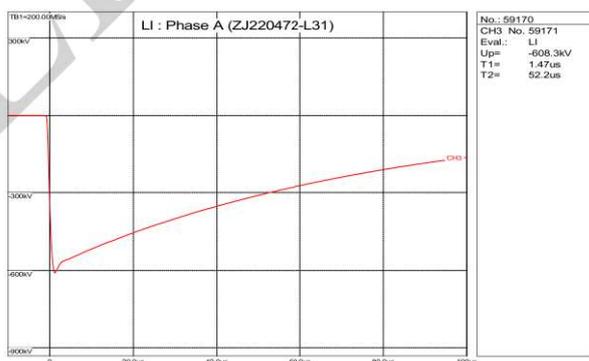
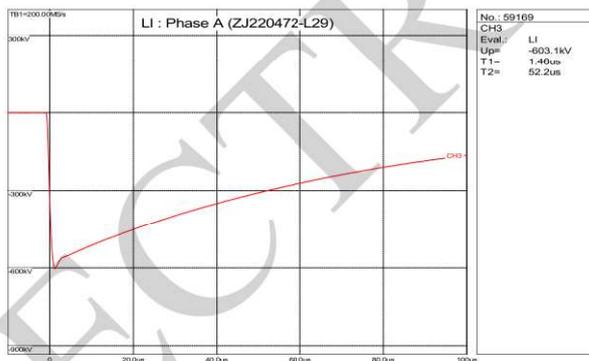
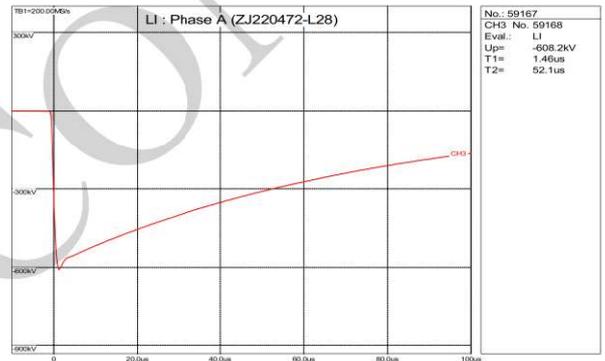
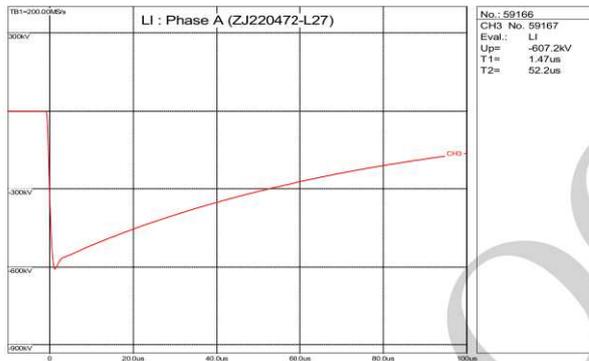
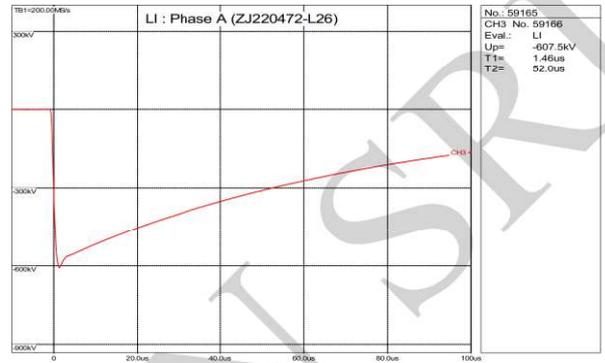
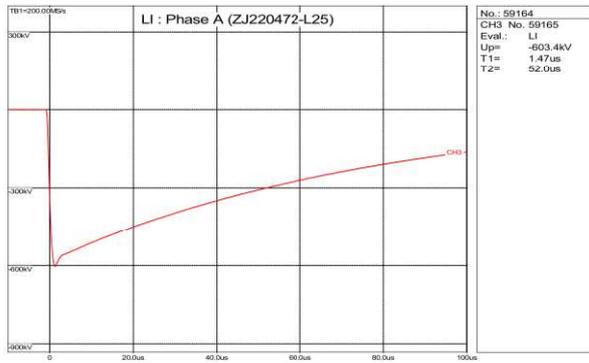
No : CTQC/ZJ-22. 0472

Total 22 Page 12

Tested terminal: To earth

Test polarity: Negative

CH1: Voltage wave



Test Report

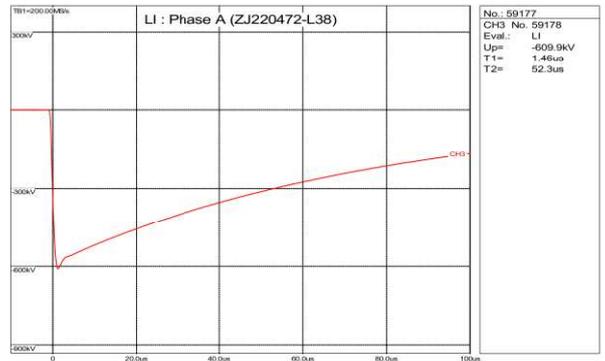
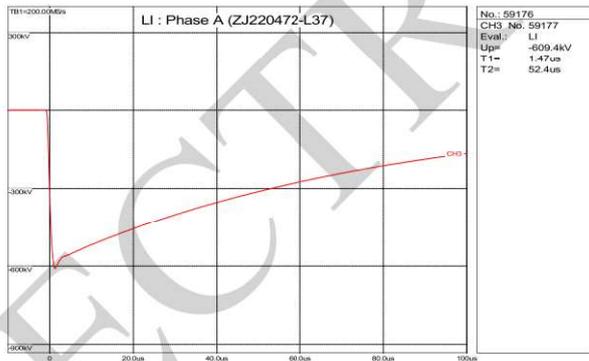
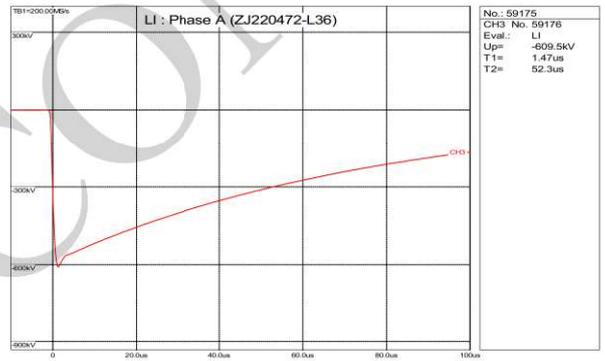
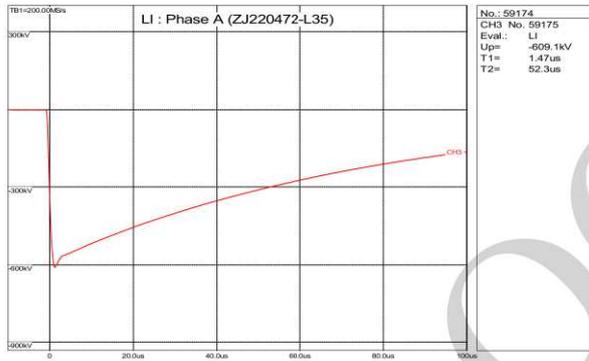
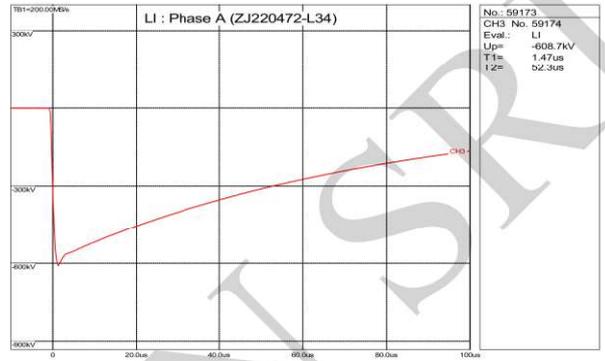
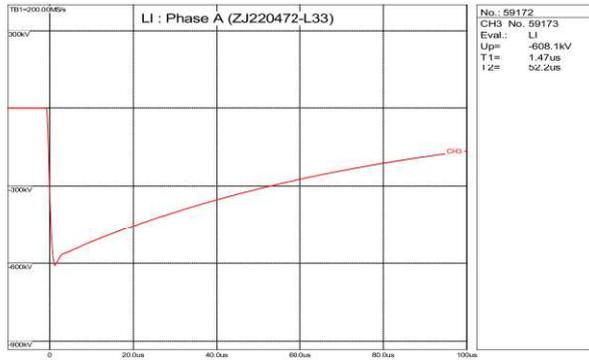
No: CTQC/ZJ-22.0472

Total 22 Page 13

Tested terminal: To earth

Test polarity: Negative

CH1: Voltage wave



<h2 style="margin: 0;">Test Report</h2>	No: CTQC/ZJ-22.0472 Total 22 Page 14
---	---

4.5 Wet power-frequency voltage withstand test (Type test)

Test date: June 03, 2022

Humidity: 70.6%; Ambient temperature: 22.3°C; Atmospheric pressure: 100.5kPa

Applied position	Applied voltage(kV)			Frequency (Hz)	Duration (s)	Result
	Standard value	Atmospheric corrected value	Applied value			
Terminals-earth	230	229.7	230	50	60	Passed

Note: The conductivity of collected water is 100.3μS/cm at 20°C.

The average precipitation rate: Vertical component 1.4mm/min, horizontal component 1.5mm/min.

4.6 Long-duration power-frequency withstand voltage test (ACLD) (Type test)

Test date: June 03, 2022

Ambient temperature: 25.6°C

Applied voltage		Duration	Partial discharge level(pC)
Multiple	Phase-earth(kV)		
$1.1U_m/\sqrt{3}$	80.0	5min	<5
$U_2=1.5U_m/\sqrt{3}$	109.1	5min	<5
$U_1=U_m$	126.0	1min	/
$U_2=1.5U_m/\sqrt{3}$	109.1	5min	<5
		10min	<5
		15min	<5
		20min	<5
		25min	<5
		30min	<5
		35min	<5
		40min	<5
		45min	<5
		50min	<5
55min	<5		
60min	<5		
$1.1U_m/\sqrt{3}$	80.0	5min	<5

Note: $U_m = 126kV$;

Background level is <2pC before and after test.

Result: Passed.

Test Report	No: CTQC/ZJ-22.0472 Total 22 Page 15
-------------	---

4.7 Radio interference voltage test (Type test)

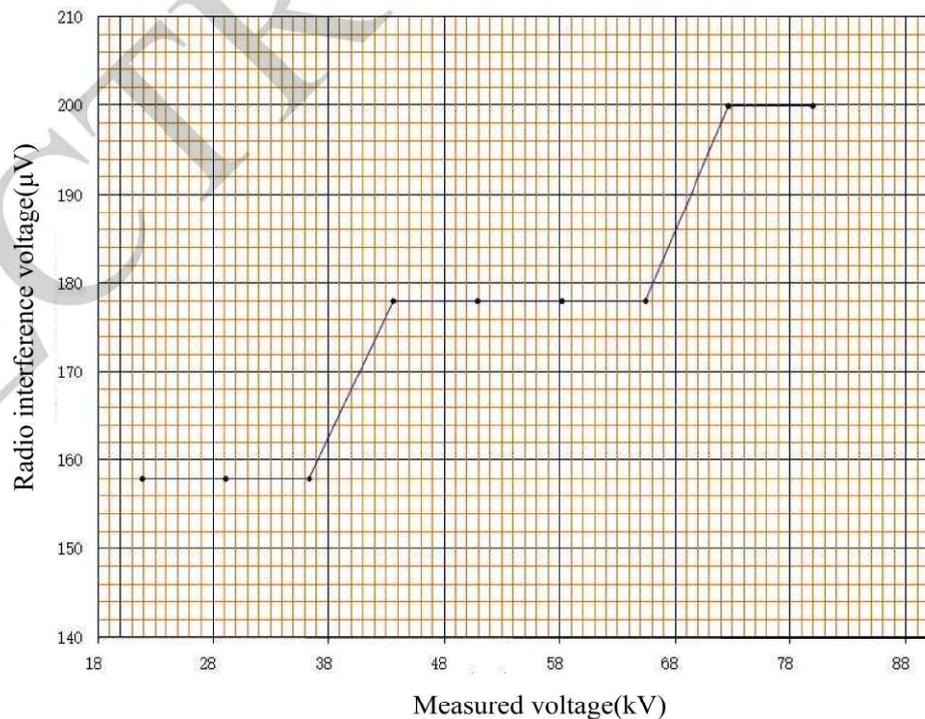
Test date: June 03, 2022

Humidity: 70.6%; Ambient temperature: 22.3°C; Atmospheric pressure: 100.5kPa

Measured frequency (MHz)	Attenuation factor of measurement circuit (dB)	Attenuation factor of resistance network (dB)	Measured voltage (kV)	Duration (min)	Radio interference reading B_m (dB)	Radio interference level (μV)
1.0	6	22	80	5	18	200
			72.7		18	200
			65.5		17	178
			58.2		17	178
			50.9		17	178
			43.6		17	178
			36.4		16	158
			29.1		16	158
			21.8		16	158

Result: Passed.

Radio interference curve



Test Report	No : CTQC/ZJ-22. 0472 Total 22 Page 16
-------------	---

4.8 Temperature rise test (Type test)

Test date: May 30, 2022

Specified current was 800A, injected current was 800A during test, the test duration was 7h, stability duration was 1h.

Calculated result of temperature rise

No.	Measured position	Temperature of bushing (°C)	Temperature rise of bushing (K)	Ambient temperature (°C)	Oil temperature (°C)	Result
1	Cable tail part	90.7	64.8	25.9	87.0	Passed
2	Cable top part	42.3	16.4			
3	Cable middle part	56.7	30.8			
4	Flange	58.9	33.0			
5	Terminal in the air	42.6	16.7			
6	Junction cover in the air	40.3	14.4			

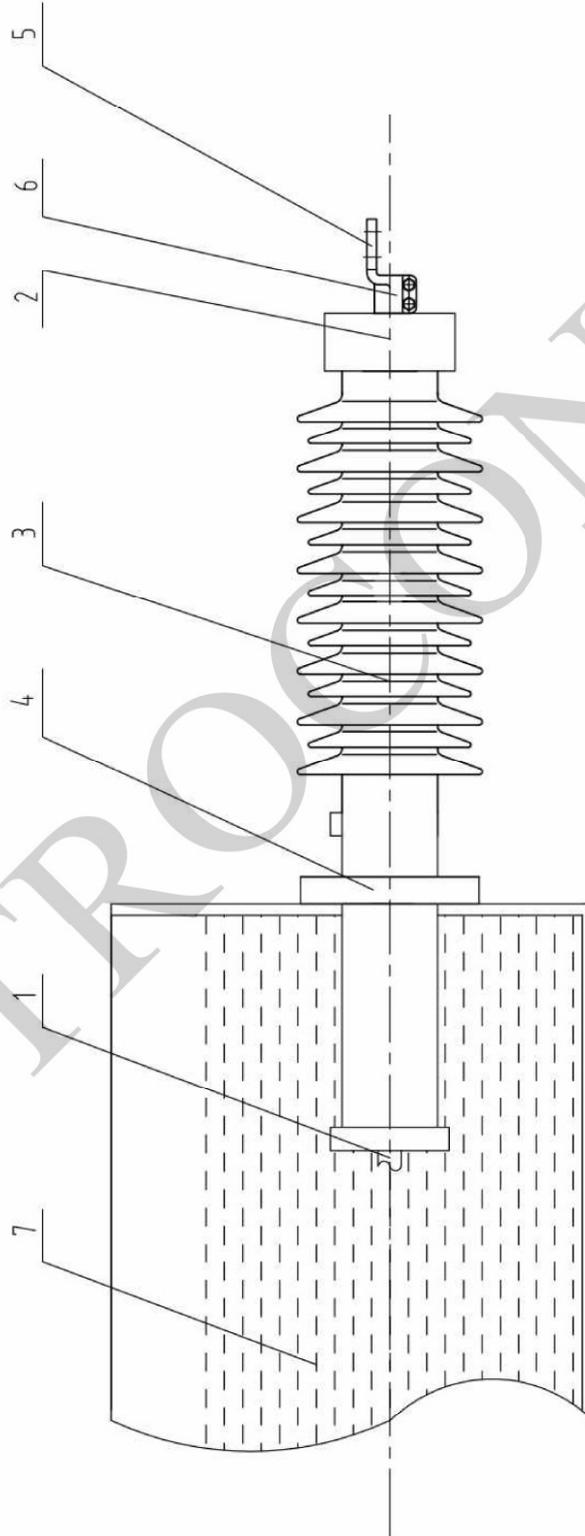
The schematic diagram of measured points shown in page 17.

Test Report

No: CTQC/ZJ-22. 0472

Total 22 Page 17

Schematic diagram of measured point of temperature rise



- 1. Cable tail part
- 2. Cable top part
- 3. Cable middle part
- 4. Flange
- 5. Terminal in the air
- 6. Junction cover in the air
- 7. Transformer oil

Test Report		No: CTQC/ZJ-22. 0472 Total 22 Page 18
<p>4.9 Verification of thermal short-time current withstand(Verified by the calculation) (Type test) Test date: June 09, 2022</p> <p>The standard value of thermal short-time current of bushing $I_{th}=20\text{kA}$, duration $t_{th}=2\text{s}$. According to calculation final temperature of the conductor $\theta_f=113.7^\circ\text{C}$. If $\theta_f \leq 180^\circ\text{C}$, it was considered that the bushing could withstand the standard value I_{th} of thermal short-time current.</p>		
Sample parameters		
Conductor material of sample	Copper	
Conductor resistivity $\rho(\mu\Omega\cdot\text{cm})$	1.724	
Total cross section area $S_t(\text{cm}^2)$	9.60	
Measured temperature rise of the bushing(K)	64.8	
Rated current $I_r(\text{A})$	800	
Standard value of rated thermal short-time current $I_{th}(\text{kA})$	20	
Rated duration $t_{th}(\text{s})$	2	
$\theta_0(^\circ\text{C})$	104.8	
Current penetration depth $d(\text{cm})$	0.935	
Diameter of the conductor $D(\text{cm})$	3.496	
$\alpha[(\text{K/s})/(\text{kA}/\text{cm}^2)^2]$	0.8	
Equivalent cross section area considering the skin effect $S_e(\text{cm}^2)$	7.523	
<p>Verify by the calculation:</p> $\theta_f = \theta_0 + \alpha \frac{I_{th}^2}{S_t \times S_e} t_{th} = 113.7^\circ\text{C}$		
Result: Passed.		

Test Report						No: CTQC/ZJ-22. 0472 Total 22 Page 19
4. 10 Cantilever load withstand test (Type test)						Test date: June 02, 2022
Load direction	Applied position	Standard value		Applied value		Result
		Load(N)	Duration(s)	Load(N)	Duration(s)	
Vertical	Terminal	1250	60	1250	60	No damage, distortion, passed.
4. 11 Measurement of partial discharge quantity (After type test)						Test date: June 03, 2022
Prestress voltage (kV)	Duration(s)	Measured voltage(kV)	Partial discharge level(pC)	Result		
255	60	126.0	<5	Passed		
		109.1	<5			
		76.4	<5			
4. 12 Measurement of dielectric dissipation factor ($\tan \delta$) and capacitances at ambient temperature (After type test)						Test date: June 03, 2022 Humidity: 70.6%; Ambient temperature: 22.3°C
Applied voltage(kV)	Dielectric dissipation factor($\tan \delta$)	Capacitance (pF)		Result		
10.0	0.00332	440.6		Passed		
76.4	0.00332	440.6				
126.0	0.00332	440.7				
Note: $\tan \delta(126\text{kV}) - \tan \delta(76.4\text{kV}) = 0.00000 < 0.001$ (Standard value), passed.						
4. 13 Dry power-frequency voltage withstand test (Type test)						Test date: June 03, 2022 Humidity: 70.6%; Ambient temperature: 22.3°C; Atmospheric pressure: 100.5kPa
Applied position	Applied voltage(kV)			Frequency (Hz)	Duration (s)	Result
	Standard value	Atmospheric corrected value	Applied value			
Terminal-earth	255	255.7	255.7	50	60	Passed
4. 14 Visual inspection and dimensional check (Routine test)						Test date: June 02, 2022
It has smooth surface, no cracks. Dimensional check is accordance with the drawing requirement. Dimensional check see 4.3. Result: Passed.						

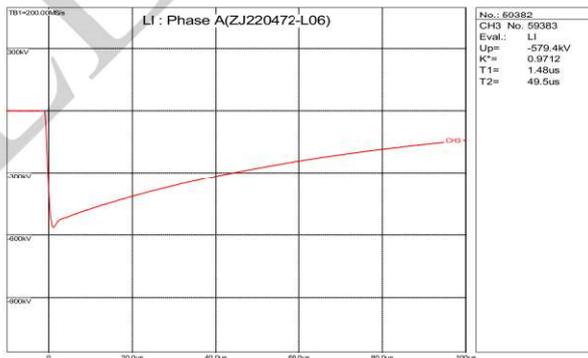
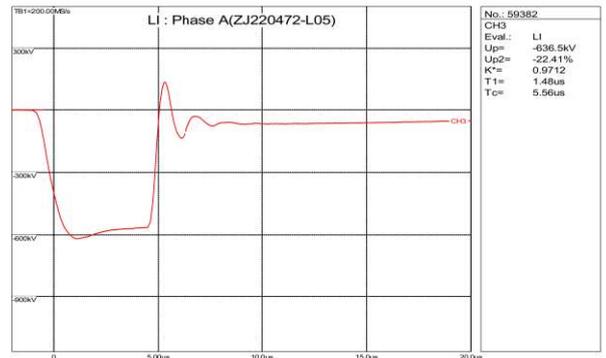
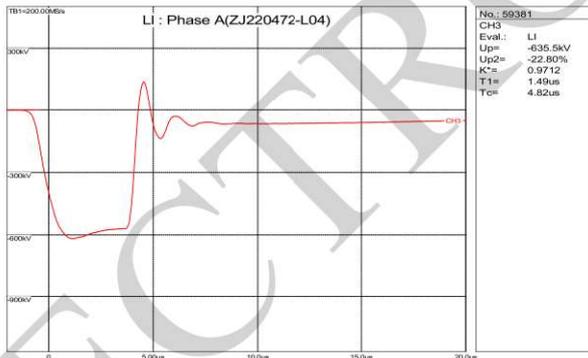
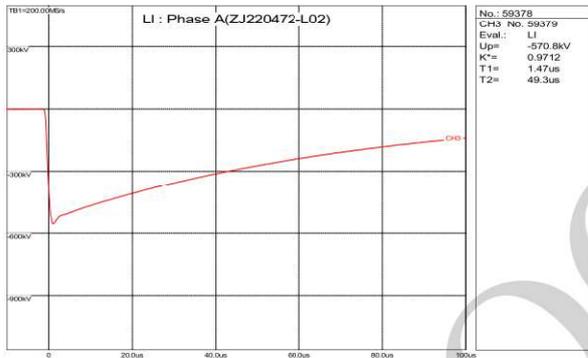
Test Report				No: CTQC/ZJ-22. 0472
				Total 22 Page 20
4. 15 Tests of tap insulation (Routine test)				Test date: June 13, 2022
Dry power-frequency voltage withstand test on the tap				
Applied position	Applied voltage(kV)	Frequency(Hz)	Duration(s)	Result
Tap-earth	2	50	60	Passed
Measurement of dielectric dissipation factor ($\tan\delta$) and capacitances at ambient temperature on the tap				
Humidity: 72.6%; Ambient temperature: 20.3°C				
Applied voltage(kV)	Dielectric dissipation factor($\tan\delta$)	Capacitance(pF)	Result	
2	0.01626	499.8	Passed	
4. 16 Dry lightning impulse voltage withstand test (Routine test)				Test date: June 07, 2022
Test atmospheric conditions: Humidity: 30.2%; Ambient temperature: 17.3°C; Atmospheric pressure: 101.6kPa.				
Rated lightning impulse withstand voltage: 577.5kV		3 negative polarity		
Chopped lightning impulse withstand voltage: 632.5kV		2 negative polarity		
Test sequence:				
One positive reference full wave impulse;				
One positive rated full wave impulses;				
One negative reference chopped wave impulse;				
Two negative rated chopped wave impulses;				
Two negative rated full wave impulses.				
Test records:				
T1: Front time;		T2: Time to half value;	Up: Peak voltage;	Tc: Time to chopping.
Result: Passed.				

Test Report

No : CTQC/ZJ-22. 0472

Total 22 Page 21

Tested terminal: To earth
 Test polarity: Negative
 CH1: Voltage records

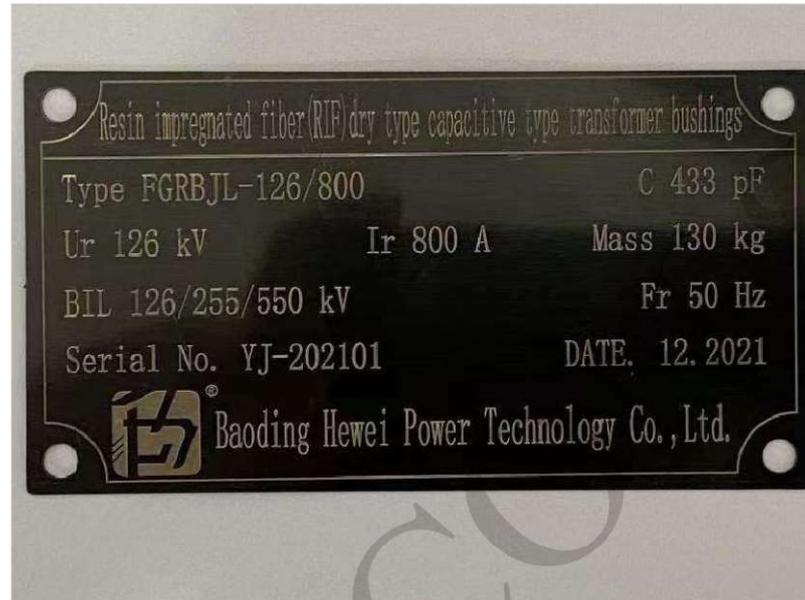


Test Report					No: CTQC/ZJ-22. 0472 Total 22 Page 22	
4. 17 Dry power-frequency voltage withstand test (Routine test)					Test date: June 13, 2022	
Humidity: 72.6%; Ambient temperature: 20.3°C; Atmospheric pressure: 100.3kPa						
Applied position	Applied voltage(kV)			Frequency (Hz)	Duration (s)	Result
	Standard value	Atmospheric corrected value	Applied value			
Terminals-earth	255	255.4	255.4	50	60	Passed
4. 18 Measurement of partial discharge quantity (Routine test)					Test date: June 13, 2022	
Prestress voltage (kV)	Duration (s)	Measured voltage (kV)	Partial discharge level(pC)	Result		
255	60	126.0	<5	Passed		
		109.1	<5			
		76.4	<5			
Note: Background level was <2pC before and after test.						
4. 19 Measurement of dielectric dissipation factor ($\tan \delta$) and capacitances at ambient temperature (Routine test)					Test date: June 13, 2022	
Humidity: 72.6%; Ambient temperature: 20.3°C						
Applied voltage(kV)	Dielectric dissipation factor($\tan \delta$)		Capacitance(pF)	Result		
10.0	0.00332		440.6	Passed		
76.4	0.00332		440.6			
126.0	0.00332		440.7			
Note: $\tan \delta(126kV) - \tan \delta(76.4kV) = 0.00000 < 0.001$ (Standard value), passed.						
4. 20 Tightness test at the flange (Routine test)					Test date: June 03, 2022	
Applied pressure(MPa)	Duration(min)	Residual pressure(MPa)		Result		
0.45	20	0.45		No leakage and damage, passed		

RATING PLATE AND OUTLINE PHOTOS

ELECTROCON SRL

Rating plate:



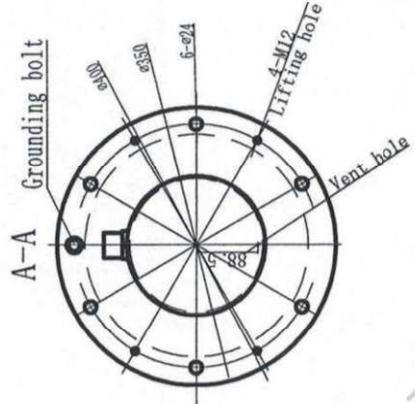
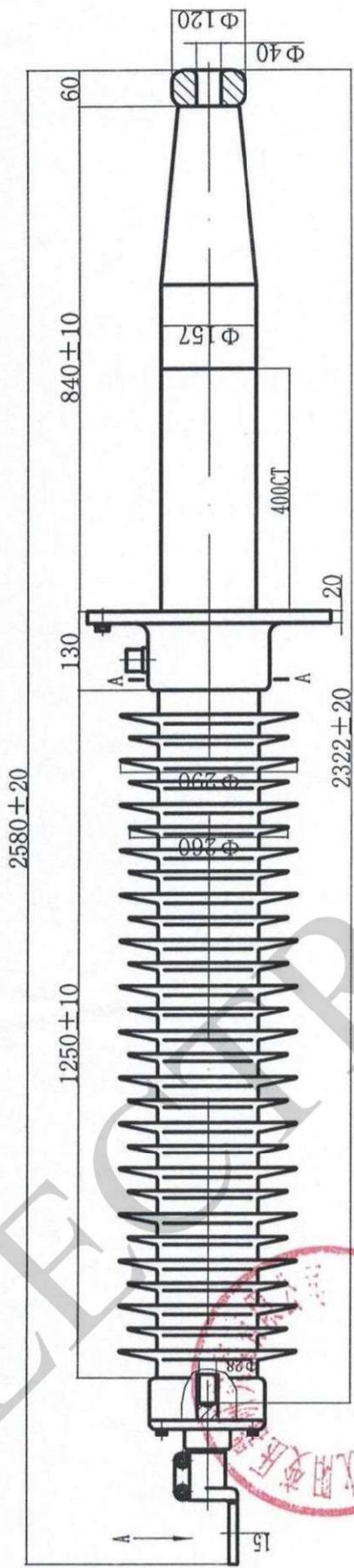
Outline:



BUSHING DRAWINGS

ELECTROCON SRL

Handwritten notes and signatures in the top left corner.



图纸验收专用章 (Drawing Acceptance Special Seal)

Technical requirements

1. Rated voltage: 126kV;
2. Rated current: 800A;
3. Insulation level: 126/255/550kV;
4. Creepage distance: $\geq 3906\text{mm}$;
5. The number of skirts and their shapes are for reference only.



OHW. 303. BTB001. 1		Beijing Helei Power Technology Co., Ltd.	
Main integrated fiber (OIF) dry type capacitive type transformer windings		FGRBJL-126/800	
Revision NO.	Weight	Figuration dimension	
C	Scale	1:14	
Page 1 of 1		Code: B001. 1	

Remark	Qty	Partition	Docu. No	Signature	Date
Design					
Audit					
Process				Approved	2022.4.18

CHPTL

中国大容量试验联盟(简称 CHPTL)是中国同类试验机构的唯一协作组织, 隶属于中国电工技术学会。

其主要目标是规范国家标准、行业标准及 IEC 标准在电力设备(交流 1000V 以上, 直流 1200V 以上)型式试验中的协调应用。

China High Power Testing liaison (CHPTL) is the only organization in China which is formed to promote and coordinate the application of IEC/GB standard as well as industry standards in power electrical equipment type test (AC above 1000V, DC above 1200V). CHPTL is under the leadership and management of China Electro-technical Society.

CHPTL 成员单位如下:

The members of CHPTL are as follows:

西安高压电器研究院有限责任公司(XIHARI)

Xi'an High Voltage Apparatus Research Institute Co., Ltd. (XIHARI)

中国电力科学研究院(CEPRI)

China Electrical Power Research Institute (CEPRI)

辽宁高压电器产品质量检测有限公司(AQTC)

Liaoning High Voltage Apparatus Quality Test Co., Ltd. (AQTC)

沈阳变压器研究院有限公司变压器实验室(STRI)

Shenyang Transformer Institute Co., Ltd Transformer Laboratory (STRI)

上海电气输配电试验中心有限公司(SETC)

Shanghai Electric Power Transmission & Distribution Testing Center Co., Ltd. (SETC)

电力工业无功补偿成套装置质量检验测试中心(PRCIQTC)

Power Industry Reactive Compensation Equipment Quality Inspection & Test Center(PRCIQTC)

CHPTL 作为一个协作组织, 本身并不出具型式试验报告。每一个 CHPTL 成员对其出具的型式试验报告的有效性和内容负责。

CHPTL as a collaboration does not itself issue test reports. Each CHPTL member issuing a test report is responsible for the validity and contents of that report.

QUALITY CERTIFICATE

Product Name: Resin impregnated fiber
dry type capacitive type transformer bushings

Product Type: CBRGL-126/800

Serial No.: 2509S02-1

Rate voltage: 126kV

Rate current: 800A

Test Standard: IEC 60137-2017

Baoding Hewei Power Technology Co., Ltd.



Add: Nanhan Village Industrial Zone, Mancheng District, Baoding City, Hebei Province, China

QUALITY CERTIFICATE

Product Name: Resin impregnated fiber
dry type capacitive type transformer bushings

Product Type: CBRGL-126/800

Serial No.: 2509S02-2

Rate voltage: 126kV

Rate current: 800A

Test Standard: IEC 60137-2017

Baoding Hewei Power Technology Co., Ltd.



Add: Nanhan Village Industrial Zone, Mancheng District, Baoding City, Hebei Province, China

QUALITY CERTIFICATE

Product Name: Resin impregnated fiber
dry type capacitive type transformer bushings

Product Type: CBRGL-126/800

Serial No.: 2509S02-3

Rate voltage: 126kV

Rate current: 800A

Test Standard: IEC 60137-2017

Baoding Hewei Power Technology Co., Ltd.



Add: Nanhan Village Industrial Zone, Mancheng District, Baoding City, Hebei Province, China

QUALITY CERTIFICATE

Product Name: Resin impregnated fiber
dry type capacitive type transformer bushings

Product Type: CBRGL-126/800

Serial No.: 2509S02-4

Rate voltage: 126kV

Rate current: 800A

Test Standard: IEC 60137-2017

Baoding Hewei Power Technology Co., Ltd.



Add: Nanhan Village Industrial Zone, Mancheng District, Baoding City, Hebei Province, China



Resin impregnated fiber (RIF) dry type capacitive type transformer bushings Certification of Qualification

I Technical parameter

Product Name	Resin impregnated fiber dry type capacitive type transformer bushings		
Product Type	CBRGL-126/800	Rate frequency	50 Hz
Rate voltage	126 kV	Rate current	800A
Serial No.	2509S02-1	Project	/

II Test Standard

IEC 60137-2017

III Test date and environment

September 24, 2025

Temperature: 25°C;

Humidity: 60%

IV Inspection items and conclusion

4.1 Appearance inspection

Test terms	Design value (mm)	Actual size (mm)
Total length	2602±20	2605
Installation size of flange	Φ350—12—Φ16	Φ350—12—Φ16
Surface inspection of the porcelain sleeve	The surface of the porcelain sleeve is smooth and undamaged	

4.2 Rated lightning impulse withstand voltage (BIL)

Standard requirements (kV)	Test conclusion
550	Pass

4.3 Dry power-frequency voltage withstand test

Test voltage (kV)	The time (min)	Test conclusion
255	1	Pass

4.4 Measurement of partial discharge quantity

Test voltage (kV)	Standard requirements	The time (min)	The values of partial discharge quantity (pC)
126	U_m	1	2 (Test background 2)
109	$1.5U_m/\sqrt{3}$	1	2 (Test background 2)
76	$1.05U_m/\sqrt{3}$	1	2 (Test background 2)

4.5 Measurement of dielectric dissipation factor and capacitance

Test voltage (kV)	Standard requirements	$\tan\delta$ (%)	Capacitance (pF)	Test conclusion
10	$\leq 0.6\%$	0.35	512	Pass
76	$\leq 0.6\%$	0.36	518	Pass
126	$\leq 0.6\%$	0.36	519	Pass
$\Delta \tan\delta$ (76kV-126kV)	$\leq 0.1\%$	0.01		Pass

4.6 Dry power-frequency voltage withstand test for test terminal

Test voltage (kV)	The time (min)	Test conclusion
3	1	Pass

4.7 Test terminal insulation resistance to ground

Test voltage (V)	The value (MΩ)
2500	2500

4.8 Tightness test

Test pressure (MPa)	The time (min)	Test conclusion
0.3	30	No leakage

5. The final test conclusion of product:

The product meets the standard IEC 60137-2017 and technical agreements, and all tests are qualified.

Date: September 24, 2025

Compiled by: Li ce

Approval: Wang ji chao





Resin impregnated fiber (RIF) dry type capacitive type transformer bushings Certification of Qualification

I Technical parameter

Product Name	Resin impregnated fiber dry type capacitive type transformer bushings		
Product Type	CBRGL-126/800	Rate frequency	50 Hz
Rate voltage	126 kV	Rate current	800A
Serial No.	2509S02-2	Project	/

II Test Standard

IEC 60137-2017

III Test date and environment

September 24, 2025

Temperature: 25°C;

Humidity: 60%

IV Inspection items and conclusion

4.1 Appearance inspection

Test terms	Design value (mm)	Actual size (mm)
Total length	2602±20	2605
Installation size of flange	Φ350—12—Φ16	Φ350—12—Φ16
Surface inspection of the porcelain sleeve	The surface of the porcelain sleeve is smooth and undamaged	

4.2 Rated lightning impulse withstand voltage (BIL)

Standard requirements (kV)	Test conclusion
550	Pass

4.3 Dry power-frequency voltage withstand test

Test voltage (kV)	The time (min)	Test conclusion
255	1	Pass

4.4 Measurement of partial discharge quantity

Test voltage (kV)	Standard requirements	The time (min)	The values of partial discharge quantity (pC)
126	U_m	1	2 (Test background 2)
109	$1.5U_m/\sqrt{3}$	1	2 (Test background 2)
76	$1.05U_m/\sqrt{3}$	1	2 (Test background 2)

4.5 Measurement of dielectric dissipation factor and capacitance

Test voltage (kV)	Standard requirements	$\tan\delta$ (%)	Capacitance (pF)	Test conclusion
10	$\leq 0.6\%$	0.34	519	Pass
76	$\leq 0.6\%$	0.35	524	Pass
126	$\leq 0.6\%$	0.36	525	Pass
$\Delta \tan\delta$ (76kV-126kV)	$\leq 0.1\%$	0.01		Pass

4.6 Dry power-frequency voltage withstand test for test terminal

Test voltage (kV)	The time (min)	Test conclusion
3	1	Pass

4.7 Test terminal insulation resistance to ground

Test voltage (V)	The value (MΩ)
2500	2500

4.8 Tightness test

Test pressure (MPa)	The time (min)	Test conclusion
0.3	30	No leakage

5. The final test conclusion of product:

The product meets the standard IEC 60137-2017 and technical agreements, and all tests are qualified.

Date: September 24, 2025

Compiled by: Li ce

Approval: Wang ji chao





Resin impregnated fiber (RIF) dry type capacitive type transformer bushings Certification of Qualification

I Technical parameter

Product Name	Resin impregnated fiber dry type capacitive type transformer bushings		
Product Type	CBRGL-126/800	Rate frequency	50 Hz
Rate voltage	126 kV	Rate current	800A
Serial No.	2509S02-3	Project	/

II Test Standard

IEC 60137-2017

III Test date and environment

September 24, 2025

Temperature: 25°C;

Humidity: 60%

IV Inspection items and conclusion

4.1 Appearance inspection

Test terms	Design value (mm)	Actual size (mm)
Total length	2602±20	2605
Installation size of flange	Φ350—12—Φ16	Φ350—12—Φ16
Surface inspection of the porcelain sleeve	The surface of the porcelain sleeve is smooth and undamaged	

4.2 Rated lightning impulse withstand voltage (BIL)

Standard requirements (kV)	Test conclusion
550	Pass

4.3 Dry power-frequency voltage withstand test

Test voltage (kV)	The time (min)	Test conclusion
255	1	Pass

4.4 Measurement of partial discharge quantity

Test voltage (kV)	Standard requirements	The time (min)	The values of partial discharge quantity (pC)
126	U_m	1	3 (Test background 3)
109	$1.5U_m/\sqrt{3}$	1	3 (Test background 3)
76	$1.05U_m/\sqrt{3}$	1	3 (Test background 3)

4.5 Measurement of dielectric dissipation factor and capacitance

Test voltage (kV)	Standard requirements	$\tan\delta$ (%)	Capacitance (pF)	Test conclusion
10	$\leq 0.6\%$	0.34	516	Pass
76	$\leq 0.6\%$	0.35	519	Pass
126	$\leq 0.6\%$	0.36	520	Pass
$\Delta \tan\delta$ (76kV-126kV)	$\leq 0.1\%$	0.01		Pass

4.6 Dry power-frequency voltage withstand test for test terminal

Test voltage (kV)	The time (min)	Test conclusion
3	1	Pass

4.7 Test terminal insulation resistance to ground

Test voltage (V)	The value (MΩ)
2500	2500

4.8 Tightness test

Test pressure (MPa)	The time (min)	Test conclusion
0.3	30	No leakage

5. The final test conclusion of product:

The product meets the standard IEC 60137-2017 and technical agreements, and all tests are qualified.

Date: September 24, 2025

Compiled by: Li ce

Approval: Wang ji chao





Resin impregnated fiber (RIF) dry type capacitive type transformer bushings Certification of Qualification

I Technical parameter

Product Name	Resin impregnated fiber dry type capacitive type transformer bushings		
Product Type	CBRGL-126/800	Rate frequency	50 Hz
Rate voltage	126 kV	Rate current	800A
Serial No.	2509S02-4	Project	/

II Test Standard

IEC 60137-2017

III Test date and environment

September 24, 2025

Temperature: 25°C;

Humidity: 60%

IV Inspection items and conclusion

4.1 Appearance inspection

Test terms	Design value (mm)	Actual size (mm)
Total length	2602±20	2605
Installation size of flange	Φ350—12—Φ16	Φ350—12—Φ16
Surface inspection of the porcelain sleeve	The surface of the porcelain sleeve is smooth and undamaged	

4.2 Rated lightning impulse withstand voltage (BIL)

Standard requirements (kV)	Test conclusion
550	Pass

4.3 Dry power-frequency voltage withstand test

Test voltage (kV)	The time (min)	Test conclusion
255	1	Pass

4.4 Measurement of partial discharge quantity

Test voltage (kV)	Standard requirements	The time (min)	The values of partial discharge quantity (pC)
126	U_m	1	2 (Test background 2)
109	$1.5U_m/\sqrt{3}$	1	2 (Test background 2)
76	$1.05U_m/\sqrt{3}$	1	2 (Test background 2)

4.5 Measurement of dielectric dissipation factor and capacitance

Test voltage (kV)	Standard requirements	$\tan\delta$ (%)	Capacitance (pF)	Test conclusion
10	$\leq 0.6\%$	0.35	518	Pass
76	$\leq 0.6\%$	0.35	521	Pass
126	$\leq 0.6\%$	0.36	521	Pass
$\Delta \tan\delta$ (76kV-126kV)	$\leq 0.1\%$	0.01		Pass

4.6 Dry power-frequency voltage withstand test for test terminal

Test voltage (kV)	The time (min)	Test conclusion
3	1	Pass

4.7 Test terminal insulation resistance to ground

Test voltage (V)	The value (MΩ)
2500	2500

4.8 Tightness test

Test pressure (MPa)	The time (min)	Test conclusion
0.3	30	No leakage

5. The final test conclusion of product:

The product meets the standard IEC 60137-2017 and technical agreements, and all tests are qualified.

Date: September 24, 2025

Compiled by: Li ce

Approval: Wang ji chao



Baoding Hewei Power Technology Co., Ltd Part of overseas sales performance

No.	Model	Product	Production No.	Qty	Country	Year
1	FCRG-40.5/630	Polymeric wall bushing	2507S90	12	Vietnam	2025
2	FCRG2-40.5/1250	Polymeric wall bushing	2506S58	3	Romania	2025
3	FCRGJ-40.5/1250	Polymeric wall bushing (RIF core)	2506S45	12	Iraq	2025
4	FCRGJ-40.5/1250A	Polymeric wall bushing (RIF core)	2506S44	50	India	2025
5	FCRG2-40.5/1250	Polymeric wall bushing	2505S81	24	India	2025
6	FCRG-72.5/1250	Polymeric wall bushing	2505S70	12	Sweden	2025
7	FCRGJ-40.5/1250	Polymeric wall bushing (RIF core)	2506S45	12	Iraq	2025
8	FCRGJ-40.5/1250	Polymeric wall bushing (RIF core)	2506S57	3	Romania	2025
9	FCRGJ-40.5/1600	Polymeric wall bushing (RIF core)	2506S47	4	Saudi Arabia	2025
10	FCRGJ-40.5/1600	Polymeric wall bushing (RIF core)	2506S46	8	Saudi Arabia	2025
11	FGRBJ-40.5/1000	RIF transformer bushing	2506S19	24	Kazakhstan	2025
12	CCRG-126/630	Porcelain wall bushing	2505S60	6	Vietnam	2025
13	FCRGJ-40.5/1600	Polymer wall bushing for SVG	2505S53	3	India	2025
14	FCRG2-40.5/2000	Polymeric wall bushing	2505S49	6	Mexico	2025
15	FCRG2-40.5/1250	Polymeric wall bushing	2505S37	6	India	2025
16	FCRG2-40.5/1250	Polymer wall bushing for SVG	2505S33	3	Saudi Arabia	2025
17	FCRG-L-40.5/1250	Polymer wall bushing with CT for SVC	2505S08	12	Indonesia	2025
18	FCRG-40.5/1250	Polymer wall bushing for SVC	2505S07	12	Indonesia	2025
19	FCRGJ-40.5/1250	Silicon rubber wall bushing (RIF core)	2505S06	16	Uzbekistan	2025
20	FCRGJ-40.5/1250	Silicon rubber wall bushing (RIF core)	2505S05	8	Uzbekistan	2025
21	FCRG-24/630A	Polymeric wall bushing	2504S61	3	Philippines	2025
22	FCRG2-40.5/1250	Polymeric wall bushing	2504S40	3	India	2025
23	FCRG2-40.5/1250	Polymeric wall bushing	2504S39	3	India	2025
24	FCRG2-40.5/1250	Polymeric wall bushing	2504S38	48	India	2025
25	FCRG2-40.5/1250	Polymeric wall bushing	2504S37	42	India	2025
26	FCRG2-40.5/1250	Polymeric wall bushing	2504S36	45	India	2025
27	FCRG2-40.5/1250	Polymeric wall bushing	2504S35	12	India	2025
28	FCRGJ-40.5/1600	Polymeric wall bushing (RIF core)	2504S08	3	India	2025
29	FCRG2-40.5/1250	Polymeric wall bushing	2503S76	3	India	2025
30	FCRG2-40.5/1250	Polymeric wall bushing	2503S75	3	India	2025
31	FCGA2-40.5/1250	APG epoxy wall bushing	2503S71	12	India	2025
32	FCGA2-40.5/1250	APG epoxy wall bushing	2503S66	57	India	2025
33	CWWL-35/1250-4	Porcelain wall bushing with CT	2503S65	6	Philippines	2025
34	FGRBJL-72.5/630	Transformer bushing	2503S38	1	Kazakhstan	2025
35	FGRBJ-126/1250	Transformer bushing	2503S37	3	Kazakhstan	2025
36	FCGA2-40.5/1250	APG epoxy wall bushing	2502S72	3	India	2025
37	FCGA2-40.5/1250	APG epoxy wall bushing	2502S64	3	India	2025
38	CWWL-35/1250-4	Porcelain wall bushing with CT	2502S43	3	Portugal	2025
39	FCRGJ-40.5/1600	Wall bushing	2502S25	32	Saudi Arabia	2025

40	FCGA2-40.25/1250	APG epoxy wall bushing	2502S13	21	India	2025
41	FCGA2-40.25/1250	APG epoxy wall bushing	2502S12	9	India	2025
42	FGRBJ-145/800	RIF transformer bushing	2502S06	2	South Africa	2025
43	FCRG-12/1600	silicon rubber wall bushing	2501S15	3	Malaysia	2025
44	FCRG-12/2500	silicon rubber wall bushing	2501S16	2	Malaysia	2025
45	FCRGJ-52/1250	Polymer condenser wall bushing	2412S14	12	Russia	2024
46	FCRGJ-40.5/3150	Polymer RIF wall bushing	2412S10	1	Kazakhstan	2024
47	BFGPS-52/315	Epoxy transformer bushing	2412S06	3	South Africa	2024
48	FGRBJL-252/630	Polymer condenser transformer bushing	2412S05	3	North Korea	2024
49	CWWL-35/1250-4	Porcelain wall bushing	2411S67	6	Uzbekistan	2024
50	FCGA2-40.5/1600	Polymer wall bushing	2411S63	18	Saudi Arabia	2024
51	CWWL-35/1250-4	Porcelain wall bushing	2411S43	3	Uzbekistan	2024
52	FGRBJ-170/1250	Polymer condenser transformer bushing	2410S72	1	South Korea	2024
53	FCGA2-40.5/1250	Polymer wall bushing	2409S52	3	Azerbaijan	2024
54	FCRG-70.5/2000	Polymer condenser wall bushing	2409S51	3	Iceland	2024
55	FCRG- 40.5/1250	Polymer wall bushing	2409S37	4	Malaysia	2024
56	FCRGJ-70.5/2000	Polymer condenser wall bushing	2408S73	4	Mexico	2024
57	FCGA2-40.5/1250	Polymer wall bushing	2408S03	8	Azerbaijan	2024
58	FCGA2-40.5/1250	Polymer wall bushing	2408S02	4	Azerbaijan	2024
59	FCRG-72.5/1250	Polymer condenser wall bushing	2407S11	4	South Korea	2024
60	FCRG-145/630	Polymer condenser wall bushing	2406S29	3	Thailand	2024
61	LGB-80	Capacitive current transformer	2406S27	3	Zimbabwe	2024
62	FCRG- 40.5/1250	Polymer condenser wall bushing	2406S05	6	Malaysia	2024
63	FCRG- 40.5/1250	Polymer condenser wall bushing	2406S04	6	Vietnam	2024
64	FGRG-70.5kV/1250A	Polymer condenser air-air bushing	2406S01	4	USA	2024
65	FCGA3-40.5/1250	Polymer wall bushing	2406S03	30	Saudi Arabia	2024
66	FGRBJ-24/630	Condenser transformer bushing/air-oil bush	2405S11	6	Zimbabwe	2024
67	FCRG-145/3150	Condenser wall bushing	2402S11	6	Sweden	2024
68	FTRG-500/100	Condenser transformer bushing	2402S10	1	Thailand	2024
69	FCRG-L-52/800	Polymer condenser wall bushing with CT	2402S05	6	Sweden	2024
70	FCRG-24/630	Condenser wall bushing	2310S11	1	Chili	2023
71	FCRG-145/3150	Polymer condenser wall bushing	2310S58	6	Sweden	2023
72	SRTG-35/1600	Capacitive CT	2308S11	3	Pakistan	2023
73	CWWL-35/1500-4	ceramic wall bushing	2307S11	7	Turkey	2023
74	FCRG2-40.5/2000	Condenser wall bushing	2303S26	6	Mexico	2023
75	FCRG- 40.5/1250	Condenser wall bushing	2303S12	12	Zimbabwe	2023
76	FCRG-L-40.5/3150	Condenser wall bushing	2303S11	12	Zimbabwe	2023
77	CWW-40.5/3150-4	Ceramic wall bushing	2302S19	33	Indonesia	2023
78	FCRG-145/1600	Polymer condenser wall bushing	2302S06	12	Sweden	2023
79	FCRG1-145/1600	Wall bushing	2209S19	2	Pakistan	2022
80	FCRGJ-126/2000	RIF condenser wall bushing	2210S23	6	Russia	2022
81	FCRG-145/630	Polymer condenser bushing	2203S07	6	Sweden	2022
82	LGB-110kV	Capacitive current transformer	2210S22	2	Egypt	2022
83	FGRBJ-70.5/630	Transformer bushing	2108S23	6	Egypt	2021
84	CWW-40.5/3150-4	Ceramic wall bushing	2009S27	6	Egypt	2020



® www.heweipower.com / www.hweidianli.cn

Email: info@heweipower.com

Tel: +86-312-7196695

Fax: +86-312-7166601

Whatsapp /Wechat/Phone: +86 15031254260

Add: Donggou Village, Mancheng District, Baoding, Hebei, China

ELECTROCON SRL