互邦电力
HU BANG
ELECTRIC POWER

DEMIKS

SHANGHAI DEMIKS ELECTRIC POWER TECHNOLOGY CO.,LTD

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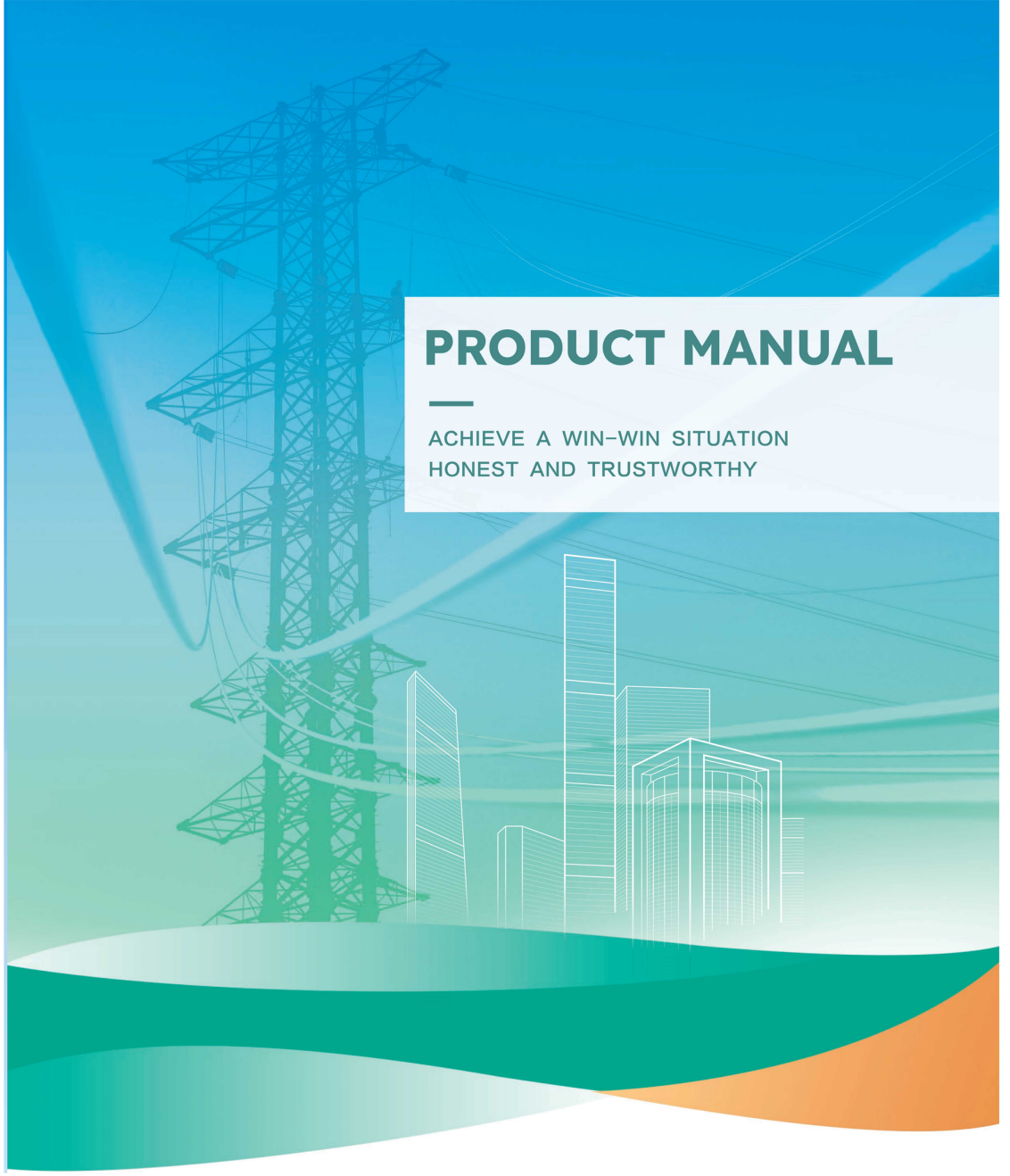

PRODUCT MANUAL

ACHIEVE A WIN-WIN SITUATION
HONEST AND TRUSTWORTHY

互邦电力
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ELECTRIC POWER

DEMIKS

Company Profile

39000

covers an area of 39000m^2

250

250 million yuan of total assets

700

700 million yuan of annual output

Shanghai Demiks Electric Power Technology Co.,Ltd. is located in Lingang Shanghai China, with convenient transportation. It is a private enterprise specialized in transformer production.

Enterprises mainly produce epoxy resin dry-type transformer,oil-immersed transformer, prefabricated substation, pad-mounted substation,pipe gallery transformer, underground transformer, buried landscape box transformer, wind/photovoltaic substation, DC charging pile, silicon steel sheet of transformer, iron core, oil tank and other products with voltage class of 35kV and below and capacity of 31500kVA and below.

The enterprise has been listed on the NEEQ, stock code: 839335; The enterprise covers an area of 39000m^2, including 20000m^2 of building area, 118 million yuan of registered capital, The enterprise has passed the ISO system certification, and the advanced process equipment and strong technical strength of the enterprise are reasonably applied to improve the quality assurance system, so as to ensure the excellent quality of the product.

We are currently in a period of rapid development and have three factories, namely Transformer Intelligent Factory, Core Manufacturing Factory, and Sheet Metal Factory,

We are committed to seek common development with customers all over the world and create good performance based on the tenet of "mutual reliance and integrity, and win-win".

10 kV Epoxy Cast Resin Off-Circuit Tap-Changing Dry-Type Transformer

Model meaning

S Three-phase	C Epoxy resin pouring type	B Low-voltage foil winding
12、13、14、18 Code of performance level	Rated capacity/voltage class	

Product description

This transformer complies with the technical parameters and requirements of GB/T 10228 and GB 20052 standards. The product adopts an F-class epoxy resin mixture with fillers, which, after vacuum degassing treatment, is cast into the coil reinforced with fiberglass mesh on the surface and then cured and molded.

This design significantly improves mechanical strength, electrical strength, and thermal endurance. The insulating material is flame-retardant, explosion-proof, and environmentally friendly.Transformers equipped with a temperature monitoring system can automatically control the operation of the forced-air cooling system according to the operating temperature. Under extreme temperature conditions, the system can also issue over-temperature alarm signals and trip signals.The transformer enclosure can be optionally made of stainless steel, cold-rolled steel with spray coating, or aluminum alloy. Cable entry and exit can be configured in various ways, including top entry–top exit, bottom entry–top exit, and bottom entry–bottom exit.

Features

- Flame-retardant, explosion-proof, and non-polluting
- Strong short-circuit resistance
- Excellent lightning impulse withstand capability
- Low maintenance costs
- Low losses for energy-saving efficiency
- Optional vibration-damping devices can better mitigate resonance issues

10KV SC(B)12 Type Three-phase Resin Insulated Dry-type PowerTransformer Performance Parameters

Type	Rated voltage combination			Conect ion symbol	o-load Current (%)	o-load Loss (K)	Load Loss (K)	Impedance voltage (%)
	H.V (KV)	Tapping range of HV (%)	L.V (KV)					
SC12-30					2.5	0.15	0.71	
SC12-50					2.2	0.215	1	
SC12-80					2.1	0.295	1.38	
SC12-100					1.9	0.32	1.57	
SC12-125					1.7	0.375	1.85	
SC12-160					1.7	0.43	2.13	
SC (B)12-200					1.5	0.495	2.53	4.0
SC (B)12-250	6				1.5	0.575	2.76	
SC (B)12-315	6.3			Dyn11	1.3	0.705	3.47	
SC (B)12-400	10	±2 ×2.5	0.4		1.3	0.785	3.99	
SC (B)12-500	10.5			Yyn0	1.3	0.93	4.88	
SC (B)12-630	11				1.2	1.07	5.88	
SC (B)12-630					1.2	1.04	5.96	
SC (B)12-800					1.2	1.21	6.96	
SC (B)12-1000					1.0	1.41	8.13	
SC (B)12-1250					1.0	1.67	9.69	6.0
SC (B)12-1600					1.0	1.96	11.7	
SC (B)12-2000					0.9	2.44	14.4	
SC (B)12-2500					0.9	2.88	17.1	

10KV SC(B)13 Type Three-phase Resin Insulated Dry-type Power Transformer Performance Parameters

Type	Rated voltage combination			Conect ion symbol	o-load Current (%)	o-load Loss (K)	Load Loss (K)	Impedance voltage (%)
	H.V (KV)	Tapping range of HV (%)	L.V (KV)					
SC13-30					2.5	0.135	0.64	
SC13-50					2.2	0.195	0.9	
SC13-80					2.1	0.265	1.24	
SC13-100					1.9	0.29	1.41	
SC13-125					1.7	0.34	1.66	
SC13-160					1.7	0.385	1.91	
SC (B)13-200					1.5	0.445	2.27	4.0
SC (B)13-250	6				1.5	0.515	2.48	
SC (B)13-315	6.3			Dyn11	1.3	0.635	3.12	
SC (B)13-400	10	±2 ×2.5	0.4		1.3	0.705	3.59	
SC (B)13-500	10.5			Yyn0	1.3	0.835	4.39	
SC (B)13-630	11				1.2	0.965	5.29	
SC (B)13-630					1.2	0.935	5.36	
SC (B)13-800					1.2	1.09	6.26	
SC (B)13-1000					1.0	1.27	7.31	
SC (B)13-1250					1.0	1.5	8.72	6.0
SC (B)13-1600					1.0	1.76	10.5	
SC (B)13-2000					0.9	2.19	13	
SC (B)13-2500					0.9	2.59	15.4	

10KV SC(B)14 Type Three-phase Resin Insulated Dry-type Power Transformer Performance Parameters

Type	Rated voltage combination			Conect ion symbol	o-load Current (%)	o-load Loss (K)	Load Loss (K)	Impedance voltage (%)
	H.V (KV)	Tapping range of HV (%)	L.V (KV)					
SC14-30					2.5	0.13	0.64	
SC14-50					2.2	0.185	0.9	
SC14-80					2.1	0.25	1.24	
SC14-100					1.9	0.27	1.415	
SC14-125					1.7	0.32	1.665	
SC14-160					1.7	0.365	1.915	
SC (B) 14-200					1.5	0.42	2.275	4.0
SC (B) 14-250	6				1.5	0.49	2.485	
SC (B) 14-315	6.3			Dyn11	1.3	0.6	3.125	
SC (B) 14-400	10	±2 ×2.5	0.4		1.3	0.665	3.59	
SC (B) 14-500	10.5			Yyn0	1.3	0.79	4.39	
SC (B) 14-630	11				1.2	0.91	5.29	
SC (B) 14-630					1.2	0.885	5.365	
SC (B) 14-800					1.2	1.035	6.265	
SC (B) 14-1000					1.0	1.205	7.315	
SC (B) 14-1250					1.0	1.42	8.72	6.0
SC (B) 14-1600					1.0	1.665	10.555	
SC (B) 14-2000					0.9	2.075	13.005	
SC (B) 14-2500					0.9	2.45	15.445	

10KV SC(B)18 Type Three-phase Resin Insulated Dry-type Power Transformer Performance Parameters

Type	Rated voltage combination			Conect ion symbol	o-load Current (%)	o-load Loss (K)	Load Loss (K)	Impedance voltage (%)
	H.V (KV)	Tapping range of HV (%)	L.V (KV)					
SC18-30					2.5	0.105	0.64	
SC18-50					2.2	0.155	0.9	
SC18-80					2.1	0.21	1.24	
SC18-100					1.9	0.23	1.415	
SC18-125					1.7	0.27	1.665	
SC18-160					1.7	0.31	1.915	
SC (B) 18-200					1.5	0.36	2.275	4.0
SC (B) 18-250	6				1.5	0.415	2.485	
SC (B) 18-315	6.3			Dyn11	1.3	0.51	3.125	
SC (B) 18-400	10	±2 ×2.5	0.4		1.3	0.57	3.59	
SC (B) 18-500	10.5			Yyn0	1.3	0.67	4.39	
SC (B) 18-630	11				1.2	0.775	5.29	
SC (B) 18-630					1.2	0.75	5.365	
SC (B) 18-800					1.2	0.875	6.265	
SC (B) 18-1000					1.0	1.02	7.315	
SC (B) 18-1250					1.0	1.205	8.72	6.0
SC (B) 18-1600					1.0	1.415	10.555	
SC (B) 18-2000					0.9	1.76	13.005	
SC (B) 18-2500					0.9	2.08	15.445	

20 kV Epoxy Cast Resin Off-Circuit Tap-Changing Dry-Type Transformer

Model meaning

S Three-phase	C Epoxy resin pouring type	B Low-voltage foil winding
11、12、13 Code of performance level	Rated capacity/voltage class	

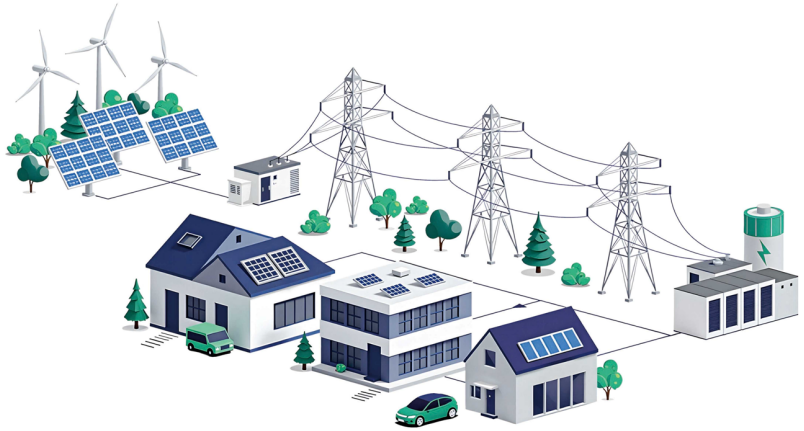
Product description

This transformer is designed for 20 kV power networks, meeting the requirements for energy conservation, low loss, and low noise. It adopts an F-class epoxy resin mixture with fillers, which, after vacuum degassing treatment, is cast into the coil reinforced with fiberglass mesh on the surface and then cured and molded.

The product offers significant improvements in mechanical strength, electrical strength, and thermal endurance. The insulating material is flame-retardant, explosion-proof, and environmentally friendly.Transformers equipped with a temperature monitoring system can automatically control the operation of the forced-air cooling system according to the operating temperature. Under extreme conditions, the system can also issue over-temperature alarm signals and trip signals.The enclosure is available in stainless steel, cold-rolled steel with spray coating, or aluminum alloy. Cable entry and exit can be configured in various ways, including top entry–top exit, bottom entry–top exit, and bottom entry–bottom exit.

Features

- Flame-retardant, explosion-proof, and non-polluting
- Strong short-circuit resistance
- Excellent lightning impulse withstand capability
- Low maintenance costs
- Low losses for energy-saving efficiency
- Optional vibration-damping devices can better mitigate resonance issues



20KV SC(B)11 Type Three-phase Resin Insulated Dry-type Power Transformer Performance Parameters

Type	Rated voltage combination			Conect ion symbol	o-load Current (%)	o-load Loss (K)	Load Loss (K)	Impedance voltage (%)
	H.V (KV)	Tapping range of HV (%)	L.V (KV)					
SC11-50	20 22 24	±2 ×2.5	0.4	Dyn11 Yyn0	1.8	0.305	1.23	6.0
SC11-100					1.6	0.485	1.99	
SC11-160					1.4	0.6	2.47	
SC(B)11-200					1.4	0.655	2.94	
SC(B)11-250					1.2	0.755	3.42	
SC(B)11-315					1.2	0.87	4.08	
SC(B)11-400					1.0	1.03	4.84	
SC(B)11-500					1.0	1.21	5.79	
SC(B)11-630					0.9	1.37	6.84	
SC(B)11-800					0.9	1.57	8.26	
SC(B)11-1000					0.8	1.86	9.78	
SC(B)11-1250					0.8	2.14	11.5	
SC(B)11-1600					0.8	2.51	13.8	
SC(B)11-2000					0.6	2.91	16.3	
SC(B)11-2500					0.6	3.48	19.3	

20KV SC(B)12 Type Three-phase Resin Insulated Dry-type Power Transformer Performance Parameters

Type	Rated voltage combination			Conect ion symbol	o-load Current (%)	o-load Loss (K)	Load Loss (K)	Impedance voltage (%)
	H.V (KV)	Tapping range of HV (%)	L.V (KV)					
SC12-50	20 22 24	±2 ×2.5	0.4	Dyn11 Yyn0	1.8	0.272	1.23	6.0
SC12-100					1.6	0.432	1.99	
SC12-160					1.4	0.536	2.47	
SC(B)12-200					1.4	0.584	2.94	
SC(B)12-250					1.2	0.672	3.42	
SC(B)12-315					1.2	0.776	4.08	
SC(B)12-400					1.0	0.920	4.84	
SC(B)12-500					1.0	1.080	5.79	
SC(B)12-630					0.9	1.220	6.84	
SC(B)12-800					0.9	1.400	8.26	
SC(B)12-1000					0.8	1.660	9.78	
SC(B)12-1250					0.8	1.900	11.5	
SC(B)12-1600					0.8	2.230	13.8	
SC(B)12-2000					0.6	2.590	16.3	
SC(B)12-2500					0.6	3.100	19.3	

20KV SC(B)13 Type Three-phase Resin Insulated Dry-type Power Transformer Performance Parameters

Type	Rated voltage combination			Conect ion symbol	o-load Current (%)	o-load Loss (K)	Load Loss (K)	Impedance voltage (%)
	H.V (KV)	Tapping range of HV (%)	L.V (KV)					
SC11-50					1.8	0.272	1.23	
SC11-100					1.6	0.432	1.99	
SC11-160					1.4	0.536	2.47	
SC(B)11-200					1.4	0.584	2.94	
SC(B)11-250					1.2	0.672	3.42	
SC(B)11-315					1.2	0.776	4.08	
SC(B)11-400	20			Dyn11	1.0	0.920	4.84	6.0
SC(B)11-500	22	±2 ×2.5	0.4		1.0	1.080	5.79	
SC(B)11-630	24			Yyn0	0.9	1.220	6.84	
SC(B)11-800					0.9	1.400	8.26	
SC(B)11-1000					0.8	1.660	9.78	
SC(B)11-1250					0.8	1.900	11.5	
SC(B)11-1600					0.8	2.230	13.8	
SC(B)11-2000					0.6	2.590	16.3	
SC(B)11-2500					0.6	3.100	19.3	

35 kV Epoxy Cast Resin Off-Circuit Tap-Changing Dry-Type Transformer

Model meaning

S Three-phase	C Epoxy resin pouring type	B Low-voltage foil winding
12 Code of performance level	Rated capacity/voltage class	

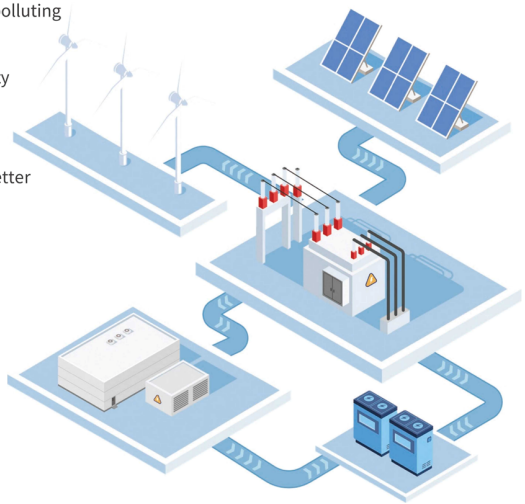
Product description

This transformer is designed for 35 kV power distribution networks as well as 35 kV photovoltaic applications, meeting the requirements for energy conservation, emission reduction, low loss, and low noise. It adopts an F-class epoxy resin mixture with fillers, which, after vacuum degassing treatment, is cast into the coil reinforced with fiberglass mesh on the surface and then cured and molded.

The product demonstrates significant improvements in mechanical strength, electrical strength, and thermal endurance. The insulation material is flame-retardant, explosion-proof, and environmentally friendly.Transformers equipped with a temperature monitoring system can automatically control the operation of the forced-air cooling system according to the operating temperature. Under extreme conditions, the system can also issue over-temperature alarm signals and trip signals.The enclosure is available in stainless steel, cold-rolled steel with spray coating, or aluminum alloy. Cable entry and exit can be configured in various ways, including top entry–top exit, bottom entry–top exit, and bottom entry–bottom exit.

Features

- Flame-retardant, explosion-proof, and non-polluting
- Strong short-circuit resistance
- Excellent lightning impulse withstand capability
- Low maintenance costs
- Low losses for energy-saving efficiency.
- Optional vibration-damping devices can better mitigate resonance issues



35KV SC (B) 12 Type Three-phase Resin Insulated Dry-type Power Transformer Performance Parameters

Type	Rated voltage combination			Conect ion symbol	o-load Current (%)	o-load Loss (K)	Load Loss (K)	Impedance voltage (%)
	H.V (KV)	Tapping range of HV (%)	L.V (KV)					
SC12-50	5 36 37 38.5	±2 ×2.5	0.4	Dyn11 Yyn0	2.1	0.405	1.42	6.0
SC12-100					1.8	0.565	2.09	
SC12-160					1.4	0.71	2.81	
SC(B)12-200					1.4	0.79	3.32	
SC(B)12-250					1.2	0.89	3.8	
SC(B)12-315					1.2	1.05	4.51	
SC(B)12-400					1.0	1.23	5.41	
SC(B)12-500					1.0	1.45	6.65	
SC(B)12-630					0.9	1.67	7.69	
SC(B)12-800					0.9	1.94	9.12	
SC(B)12-1000					0.7	2.18	10.4	
SC(B)12-1250					0.7	2.54	12.7	
SC(B)12-1600					0.7	2.91	15.4	
SC(B)12-2000					0.7	3.43	18.2	
SC(B)12-2500					0.7	4.00	21.8	

Development History

2007/9

In September 2007, the former "Jiangsu Mutual Transformer Manufacturing Co., Ltd." was established。

2010/10

National compulsory product certification in October 2010

2014/9

In September 2014, it became a member of China Electric Appliance Industry Association and obtained the quality trust product promotion certificate of the Association

2016/9

In September 2016, MUPower was officially listed in the national share transfer system for small and medium-sized enterprises, and intelligent pipe gallery transformer passed the high-tech product certification.

Established wholly-owned subsidiary of Haian Huacheng New Material Co., Ltd. in September 2016

2016/11

In November 2016, it was identified as a national high-tech enterprise

2017/10

Obtained Jiangsu Private Science and Technology Enterprise Certificate in October 2017

2018/5

In May 2018, the company was renamed as Jiangsu Beichen Hubang Electric Power Co.,Ltd.

2019/11

In November 2019, it passed the verification and review of high-tech enterprises

2020/1

Awarded as the Advanced Unit of Scientific and Technological Innovation in January 2020。

2022/7

In July 2022, it was rated as a private scientific and technological enterprise in Jiangsu Province。

2022/22

In December 2022, it was identified as Jiangsu Province Special New Mediumand Small Enterprises and High-tech Enterprises in 2022

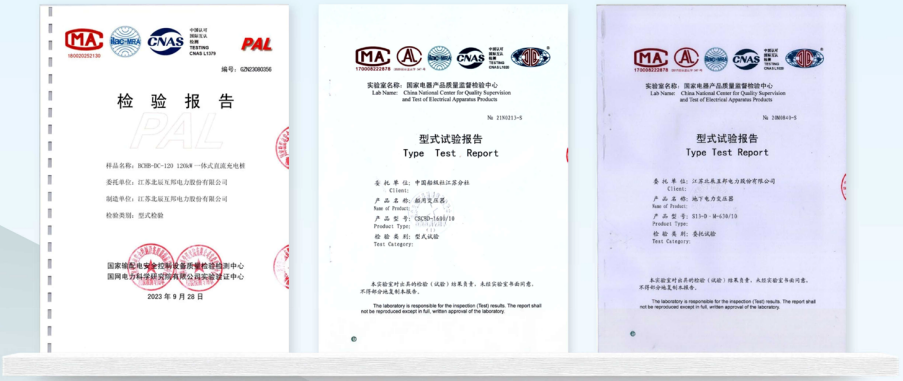
2023/1

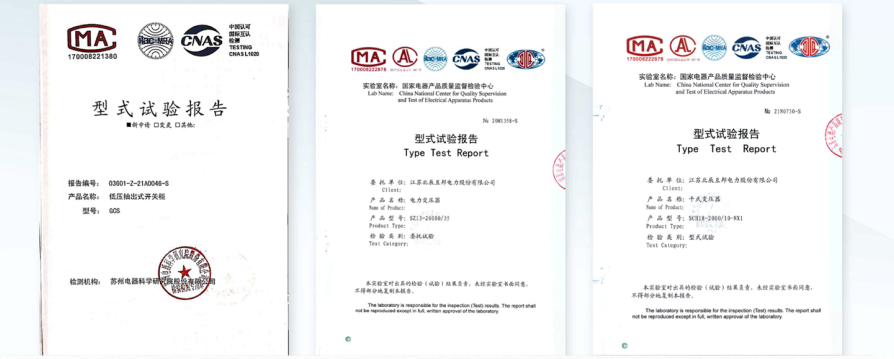
In January 2023, the Company was awarded the title of 2022 Advanced Unit for Digital Transformation of Intelligent Transformation andAdvanced Unit for New Industrialization

2024/8

In August 2024, the intelligent workshop of the new factory was put into use.
The internationally oriented brand, SYNO-ELECTRIC was established the same month.

Product Type Test Report





Qualifications and Honors

Strength can be reflected by achievements.We get more confidence when we look back at our successes.