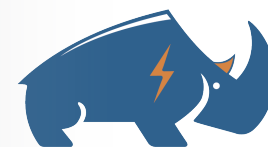


Tianjin Kechang International Trade Co.,LTD



**KECHANG
ELECTRIC**

**Durable Electrical Equipment
Professional manufacturer**

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CONTENT

- 01** • Company profile
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COMPANY PROFILE

Tianjin Kechang International Trade Co., Ltd. is an electrical enterprise integrating scientific research, design, production, trade and technical service. Since its establishment, it has focused on energy-saving power transformers, medium and low-voltage switchgear, power distribution boxes and distribution switching control equipment and intelligent online diagnosis of substation and distribution equipment, benchmarked against the State Grid standard, and is a qualified supplier of the State Grid and the winning unit. Our products are widely used in the fields of national grid urban (agricultural) network renovation, community and commercial, petrochemical, metallurgy and mining, data storage center, transportation and communication and key government projects, etc. The durability of our products has been generally recognized by users. After precipitation accumulated a wealth of valuable experience, we have a professional technical team and leading processing center to achieve automated production. And we always adhere to the concept of high-quality products and core values, advocating the culture of experts, willing to work with friends to win!

科畅电气



COMPANY PROFILE

2006

The company was founded, began to OEM production for listed companies in the electric power complete set industry, in the process accumulated a wealth of experience in production management, training a strong production team, while training their own technical backbone.

2010

The company was founded, began to OEM production for listed companies in the electric power complete set industry, in the process accumulated a wealth of experience in production management, training a strong production team, while training their own technical backbone.

2011

Constructed the modern management base organization mode, and implemented the standardized management.

2015

Reached strategic cooperation agreements with ABB, Schneider, Renmin (Shanglian), State Grid Xuji, Chint, DeLisi and other domestic and international first-tier brands.

2016

Obtained seven patents; the project funded by the Innovation Fund of the Ministry of Science and Technology passed the acceptance of the expert group.

2017

Passed the supplier qualification audit of State Grid's centralized bidding activities; won the bidding of State Grid's centralized procurement project, positioned as a "professional manufacturer of durable electrical products", and was awarded the title of "Specialized SMEs".

2012

Constructed the modern management base organization mode, and implemented the standardized management.

2013

Participated in the construction project of Liaoning Dongdaihe New Area.

2014

Set up sheet metal workshop to lay a good foundation for the upgrading and transformation of some products, and committed to the research and development of high-frequency switching DC power supply, intelligent reactive power compensation, intelligent manipulation, intelligent instrumentation, comprehensive automation system and other products.

2019

Busbar data processing center was established to realize the centralized production of busbar; the output value exceeded one hundred million yuan.

2020

Start the independent production of ring network cabinet, realize robot welding; participate in Xiongan New Area high-speed railway station, Xiongan Rongdong Area resettlement house and supporting facilities project, Langfang Runze Technology big data project,

2021

Achieved mass production of new national standard high-efficiency transformers; automated sheet-metal processing robots; won the title of "Specialized, Specialized and New Demonstration Enterprise"; power distribution started market application Power distribution operation and maintenance online monitoring platform started market application;

CORPORATE CULTURE

Brand positioning: professional manufacturer of durable electrical equipment

Enterprise spirit: to be the rhinoceros in electrical industry, professional ,trustworthy!

CORE VALUE

- **Loyalty:**

Stick to your promise

Be loyal to your products

Be responsible for your job

Be committed to the interest of your customers

- **Professional:**

Expert team

Escort the products

High standards and strict requirements

Constantly improve professional skill

- **Positive:**

Positive attitude

Work actively

Take the healthy development pf the company as one's responsibility

- **Cooperation:**

Lay down attitude and character

Respect each other

Mutal achievement

Mutal exchange of needed products

Resource sharinge

- **All-win result:**

Cooperation and mutal benefit for common development

Achieve all-win result with employees partners and customers

Durable Electrical Equipment

ENTERPRISE EQUIPMENT DISPLAY



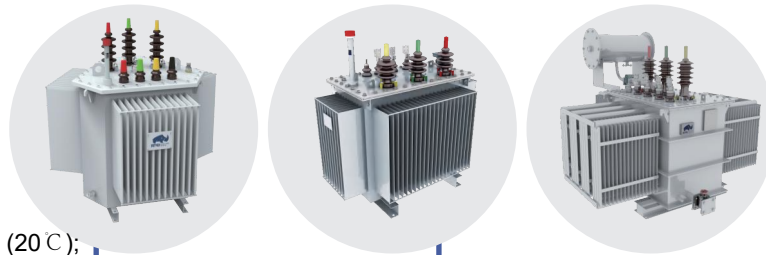
OIL IMMERSED TRANSFORMER

PRODUCT FEATURES

- Through the research and application of new materials, new technology and the combination of independent innovation and technology introduction, the product is independently developed for the purpose of reducing the air and load loss and noise through the optimized and innovative design of the iron core and coil structure. The noise level is 20% lower than the average level of current international standard JB/T10088-2004. The iron core is made of high permeability oriented silicon steel sheet, and adopts the structure of fully sealed corrugated sheet oil tank, which has beautiful appearance and remarkable economic benefits.
- Mainly used in the following city distribution network, industrial and mining enterprises, and civil buildings power supply and distribution system. It can also be applied in petroleum and chemical industry where there are many oil and chemical substances.
- After strict testing and quality control, the actual measurement results of oil-immersed transformer are higher than GB and IEC standards, CE ISO certification, etc.

WORKING CONDITIONS:

- Maximum ambient temperature: +40℃;
- Minimum ambient temperature: -25℃;
- Altitude: <1000m.
- Maximum monthly average relative humidity: 90% (20℃);
- Installation location: indoor or outdoor.



6/10KV oil immersed transformer

35KV oil immersed transformer

S13-Nx3 type 6-10kv Oil immersed transformer (30-2500KVA)

型号 Model number	额定容量 Rated volume quantity (KVA)	电压组合(KV) Voltage combination(KV)			联结组标号 Connection group label	空载损耗 No-load loss (W)	负载损耗 Load loss (W)	空载电流 No-load electricity (W)	短路阻抗 Short circuit resistance (%)
		高压 High voltage (KV)	高压分接范围 High voltage tap range	低压 Low Voltage (V)					
S13-M-30	30	6kv	±5%	400V	Dyn11	80	630/600	1.5	4
S13-M-50	50					100	910/870	1.3	4
S13-M-63	63					110	1090/1040	1.2	4
S13-M-80	80					130	1310/1250	1.2	4
S13-M-100	100					150	1580/1500	1.1	4
S13-M-125	125					170	1890/1800	1.1	4
S13-M-160	160					200	2310/2200	1.0	4
S13-M-200	200					240	2730/2600	1.0	4
S13-M-250	250					290	3200/3050	0.9	4
S13-M-315	315					340	3830/3650	0.9	4
S13-M-400	400	10.5KV	or ±2×2.5%	400V	or Yyn0	410	4520/4300	0.8	4
S13-M-500	500					480	5410/5150	0.8	4
S13-M-630	630					570	6200	0.6	4.5
S13-M-800	800					700	7500	0.6	4.5
S13-M-1000	1000					830	10300	0.6	4.5
S13-M-1250	1250					970	12000	0.5	4.5
S13-M-1600	1600					1170	14500	0.5	4.5
S13-M-2000	2000					1360	18300	0.4	5
S13-M-2500	2500					1600	21200	0.4	5

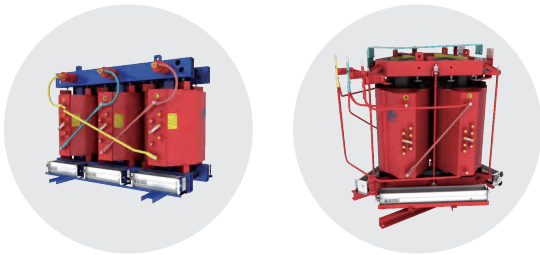
CAST RESIN DRY TYPE TRANSFORMER

PRODUCT FEATURES

- Excellent energy-saving effect, economical operation, maintenance-free.
- High mechanical strength, strong short-circuit resistance; flame retardant, explosion-proof, pollution-free;
- Maintenance-free; good moisture-proof, can be operated under 100% humidity, no preheating treatment before putting into operation, intermittent operation without dehumidification treatment;
- Small dimensions, light weight, no cracking, no moire on the surface, and low partialdischarge .
- High insulation level, good performance of lightning impact resistance.
- Strong heat dissipation capacity, can run with rated load under forced air-cooled condition.

WORKING CONDITIONS:

- Maximum ambient temperature: +40℃
- Minimum ambient temperature: -5℃
- Altitude: <1000m
- Maximum monthly average relative humidity: 90% (20℃)
- Installation location: no obvious dirt, indoor use.



SCB12-Nx3 type 6-10kv Cast resin dry type transformer (30-2500KVA)

型号 Model number	额定容量 Rated volume quantity (KVA)	电压组合(KV) Voltage combination(KV)			联结组标号 Connection group label	空载损耗 No-load loss	负载损耗 Load loss	空载电流 No-load electricity	短路阻抗 Short circuit resistance
		高压 High voltage	高压分接范围 High voltage tap range	低压 Low Voltage		(W)	(W)	(W)	(%)
SC12-M-30	30	6kv 6.3KV 10KV 10.5KV	±5% or ±2×2.5%	400V	Dyn11	150	710	2.0	4
SC12-M-50	50					215	1000	2.0	4
SC12-M-80	80					295	1380	1.5	4
SC12-M-100	100					320	1570	1.5	4
SC12-M-125	125					375	1850	1.3	4
SC12-M-160	160					430	2130	1.3	4
SC12-M-200	200				495	2530	1.1	4	
SC12-M-250	250				575	2760	1.1	4	
SC12-M-315	315				705	3470	1.0	4	
SC12-M-400	400				785	3990	1.0	4	
SC12-M-500	500				930	4880	1.0	4	
SC12-M-630	630				1070	5880	0.85	4	
SC12-M-630	630				1040	5960	0.85	6	
SC12-M-800	800				1215	6960	0.85	6	
SC12-M-1000	1000				1415	8130	0.85	6	
SC12-M-1250	1250				1670	9690	0.85	6	
SC12-M-1600	1600				1960	11730	0.85	6	
SC12-M-2000	2000				2440	14450	0.7	6	
SC12-M-2500	2500				2880	17170	0.7	6	

35KV POWER TRANSFORMER

PRODUCT FEATURES

- Strong short-circuit resistance, beautiful appearance and modeling, reliable operation with low loss and low noise, reaching the advanced level of similar products in China.
- The high and low voltage champs tightened with steel straps or upper and side beams to form a solid frame structure, which enhances the iron core clamping force and the ability to withstand transportation impact;
- The high and low voltage coils are equipped with longitudinal oil passages, which is conducive to heat dissipation and can greatly reduce the temperature difference between copper and oil and the temperature raise of the hottest sopt inside the coil.

WORKING CONDITIONS:

- maximum ambient temperature: + 40 C;
- minimum ambient temperature: - 25 C;
- altitude: < 1000m;
- maximum monthly average relative humidity: 90% (20°C);
- installation location: indoor or outdoor.



Technical Specification

型号 Model number	额定容量 Rated volume quantity (KVA)	电压组合(KV)			联结组标号 Connection group label	空载损耗 No-load loss (W)	负载损耗 Load loss (W)	空载电流 No-load electricity (%)	短路阻抗 Short circuit resistance (%)	
		高压 High voltage	高压分接 范围 High voltage tap range	低压 Low Voltage						
S-M-630	630	35	±5%	3.15	yd11	580	7860	0.65	6.5	
S-M-800	800					690	9400	0.65	6.5	
S-M-1000	1000					810	11500	0.65	6.5	
S-M-1250	1250		or	6.3		980	13900	0.55	6.5	
S-M-1600	1600					1180	16600	0.45	6.5	
S-M-2000	2000					1520	18300	0.45	5.5	
S-M-2500	2500		±2×2.5%	10.5		1790	19600	0.45	6.5	
S-M-3150	3150	2130				23000	0.45	7		
S-M-4000	4000	2530				27300	0.4	7		
S-M-5000	5000	38.5	or	6.3		3020	31300	0.45	7	
S-M-6300	6300					3670	35000	0.45	8	
S-M-8000	8000					5040	38400	0.35	8	
S-M-10000	10000	35	±5%	3.15	ynd11	6090	45300	0.35	8	
S-M-12500	12500					7000	53800	0.30	8	
S-M-16000	16000					8470	65800	0.30	8	
S-M-20000	20000		or	6.3		10080	79500	0.30	8	
S-M-25000	25000					11900	94000	0.25	10	
S-M-31500	31500					14140	112000	0.25	10	
			38.5	±2×2.5%		10.5				

POWER DISTRIBUTION BOX

PRODUCT FEATURES

Distribution board is used for outdoor power or lighting distribution in three-phase AC 660V or less distribution system.

Cabinet structure: single/double layer, single/double door. Various cabinets and accessories, rated AC frequency 50HZ /60HZ, maximum working voltage to 660V, rated current 800A, mainly used in power generation enterprises, industrial and mining enterprises, housing construction and other fields, electrical performance fully comply with the relevant provisions of GB7251 and IEC60439.



RING MAIN UNIT(SF6)

PRODUCT FEATURES

ZFNZXD2 series gas fully insulated and hermetically sealed ring main unit is SF6 gas insulated medium voltage switchgear independently developed by Kechang Company, which is called gas filled cabinet for short. The product adopts modular design and can be arranged arbitrarily according to different design schemes, realizing the perfect combination of common box unit and expansion unit, meeting the flexible use requirements of various secondary transmission and distribution substations for compact switchgear.

ZFNZXD2 series switchgear is a completely sealed system with protection grade of IP67. The box is filled with SF6 gas. After synchronous vacuum pumping and helium leak detection, the tightness of the gas box is ensured. All live parts and switches are sealed in stainless steel gas box. The explosion-proof diaphragm is installed on the explosion-proof port at the bottom of the gas box. When the switch is abnormal and the air pressure in the gas box exceeds a certain value, the pressure can be released from the explosion-proof port at the lower part to effectively prevent the damage of high-pressure gas to people, cables and other switchgear in the substation.

ZFNZXD2 series switchgear has the advantages of compact structure design, full sealing, full insulation, maintenance free, long service life, small occupied space, safe and reliable, not affected by working environment, convenient operation, etc. The cabinet is suitable for indoor and outdoor installation, with high resistance to harsh environment. The products have passed the type test certification of national high voltage apparatus test center, and are widely used in small secondary distribution stations, box type switching stations, industrial and mining enterprises, airports, railways, commercial areas, high-rise buildings, expressways, subways, tunnels and places with poor natural conditions.



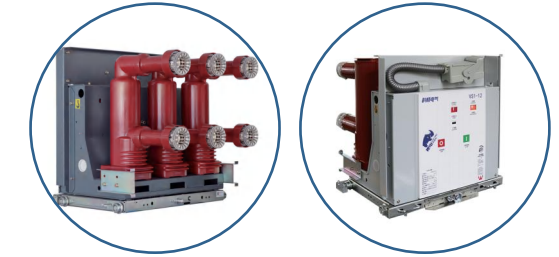
List of technical parameters of XGNQZXD2-12 series of environment friendly gas insulated ring main unit

Items	Unit	Circuit breaker	Load switch	Load-switch-fuse combinations
Rated voltage	KV	12KV		
Rated frequency	Hz	50HZ		
Rated current	A	630/1250A	630A	125A
1 min power frequency withstand voltage (interphase and phase to ground)	KV	42KV	42KV	42KV
1 min power frequency withstand voltage (isolating distance)		48KV	48KV	48KV
Power frequency withstand voltage (control and auxiliary circuit)		2KV	2KV	2KV
Lighting impulse withstand voltage		75KV	75KV	75KV
Lighting impulse withstand voltage (isolating distance)		85KV	85KV	85KV
Rated short-circuit breaking current	KA	20/25	-	31.5
Rated short-circuit making current	KA	50/63	50	80
Rated short-circuit withstand current	KA	20/25	20	-
Rated duration of short-current	s	4	4	-
Rated peak withstand current	KA	50/63	50	-
Take-over current/transfer current	A	-	-	3150
Rated operating sequence	-	0-0.3s-CO-180s-CO		
Rated filling pressure (gauge pressure when temperature is 20°C)	Mpa	0.02		
Minimum functional pressure (gauge pressure when temperature is 20°C)	Mpa	0		
Pressure relief device release pressure (gauge pressure when temperature is 20°C)	Mpa	0.16		
Yearly gas leakage rate	-	≤0.01%		
Machanical life	Time	10000	10000	10000
Main loop resistance	μΩ	≤150	≤150	≤300

VACUUM CIRCUIT BREAKER

PRODUCT FEATURES

Indoor high-voltage solid vacuum circuit breaker is suitable for rated voltage 12kV, frequency 50-60Hz three-phase AC power system, for industrial and mining enterprises and substations as the control and protection of electrical facilities, especially suitable for frequent operation under rated current or many times to open and close the short-circuit current of the place, can be used for fixed installation unit, can also be composed of handcart unit use. Generally used with indoor air-insulated switchgear (e.g. KYN28 XGN2 XGN66, etc.).



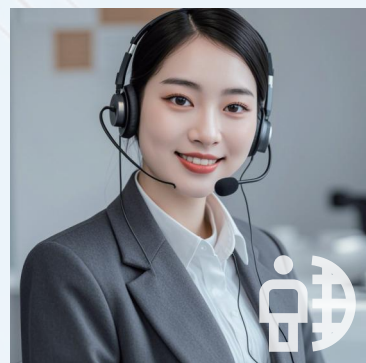
Technical Specification						
Number	Parameter name	Unit	Technical Parameters			
1	Rated voltage	KV	12			
2	Rated short-time frequency withstand voltage (1 min)	KV	42			
3	Rated lightning impulse withstand voltage (peak)	KV	75			
4	Rated frequency	HZ	50			
5	Rated current	A	630, 1250, 1600, 2000, 2500, 3150, 4000			
6	Rated short-circuit breaking current	KA	20	25	31.5	40
7	Rated short-time withstand current	KA	20	25	31.5	40
8	Rated short circuit duration	S	4			
9	Rated short-circuit closing current	KA	50	63	80	100
10	Rated peak withstand current	KA	50	63	80	100
11	Number of rated short-circuit current starts	times	30	30	30	20
12	Rated individual capacitor bank opening current	A	≤630			
13	Rated back-to-back capacitor bank opening current	A	≤400			
14	Rated capacitor bank closing inrush current	KA	12.5 (frequency≤1000HZ)			
15	Closing time	ms	≤80			
16	Split time	ms	Maximum Voltage		≤40	
		ms	Rated Voltage		≤50	
		ms	Minimum Voltage		≤60	
17	Time of ignition	ms	≤15			
18	Mechanical life (M2)	times	30000			
19	Allowable cumulative thickness of dynamic and static contact wear	mm	3			
20	Rated closing operating voltage	V	AC/DC 220		AC/DC 110	
21	Rated breaking operating voltage	V	AC/DC 220		AC/DC 110	
22	Rated operating voltage of energy storage motor	V	AC/DC 220		AC/DC 110	
23	Rated power of energy storage motor	W	80(40KA Motor speed100W)			
24	Energy storage time	s	≤15			
25	Contact opening distance	mm	9±1			
26	Over traveling distance	mm	3.5±0.5			
27	Contact closing bounce time	ms	≤2			
28	Three-phase switching and closing non-synchronous	ms	≤2			
29	Contact splitting rebound amplitude	mm	≤3			
30	Contact closing contact pressure	KA	20	25	31.5	40
		N±8%	2200	2500	3100	4750
31	Average breaking speed (contacts separated by 6mm)	m/s	1.1±0.2			
32	Average closing speed (6mm contact closure)	m/s	0.6±0.2			
33	Dominant electric circuit resistance	A	630	1250	1600-2000	≥2500
34		μΩ	≤50	≤45	≤35	≤25
35	Rated operating sequence (1) 20~31.5KA		Minutes - 0.3s - combined minutes - 180s - combined minutes			
	Rated sequence of operation (2) 40KA		Minutes - 0.3s - combined minutes - 180s - combined minutes			
	Secondary circuit frequency withstand voltage (1min)	V	2000			

KECHANG ELECTRIC



COMPANY PARTNER





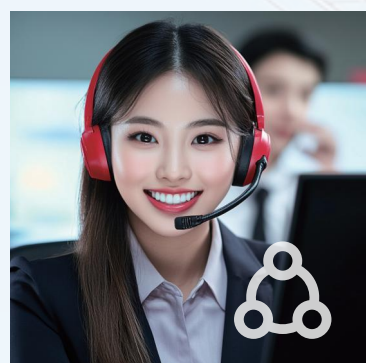
PRE-SALES SERVICE:

1. ISO certified excellent Manufacturer
2. Third-party authoritative certifications: SGS、BV、CE、CB、CNAS、CQC、CCC、CSA、SABS etc
3. Flexible payment: T/T, L/C, D/P
4. Sufficient inventory, fast delivery time and long validity of the price
5. We offers 24-hour professional online consulting service to you, helping u to solve all kinds of problems and mid givings in your choice of products. According to your actual situation and demand, provide the most professional、most economical and most efficient technical solutions.



SALES SERVICE:

In the process of production, we will strictly control for you from raw materials, production process to inspection procedures. The specialized team will creat first-class quality products for you.



AFTER-SALES SERVICE:

1. If there is any quality problem after receiving the goods, you can return the goods free of charge or ship new products.
2. We provide our customers with a 1-year product warranty.
3. Provide 24-hour, 365-day technical guidance worldwide.
5. Our customer service team ensures on time delivery.