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亨斯迈(杭州)电力技术有限公司
Hertzman(Hangzhou) Power Technology Co.,Ltd.

Add: No. 268 Dakang Road, Qingshanhu street, Lin'an District,
Hangzhou , Zhejiang

MB: +86-188 0581 0777

Tel: +86 400 881 0501 Fax: +86-571-8826 1796

TECHNOLOGY AND PRODUCT



THE POWER OF ENGINEERING





关于我们

亨斯迈（杭州）电力技术有限公司为中外合资企业，专注于为配电电力行业的元器件研发制造与电力成套，提供优质解决方案。

高可靠性、智能化、小型化，确立了亨斯迈全系产品的核心优势和竞争力。旗下的 NXSAFE/EXSINE 品牌柜、NXRING/NXGEAR/SOGEAR/R-AIR/NXPSNEL/NXGREEN 环网柜、EXT/EXE 低压断路器、VHZ4 中压断路器、DAVIDCLOUD 电力运维系统等产品与服务已在全国供电系统、铁路系统、大型公建、商业地产等各行业广泛应用，得到用户认可。

成为知识的掌握者，成为技术与制造工程水平的引领者，成就企业持续发展力，不断满足电力用户的需求。



About us

Hunsmal (Hangzhou) Electric Power Technology Co., Ltd. is a Sino -foreign joint venture. It focuses on the development, manufacturing and power sets of components in the power distribution power industry to provide high -quality solutions.

High reliability, intelligence, and miniaturization have established the core advantages and competitiveness of Hunsmal's entire products. Its NXSAFE/EXSINE brand cabinet, NXring/NXGEAR/SOGEAR/R-AIR/NXPSNEL/NXGREEN ring cabinet, EXT/EXE low-voltage circuit breaker, VHz4 4 criminal circuit breaker, DavidCloud power operation and maintenance system and other products have been in the country. Power supply systems, railway systems, large public construction, commercial real estate and other industries are widely used, and users are recognized.

Become a master of knowledge, become the leader of the level of technology and manufacturing, and achieve the sustainable development of enterprises and continuously meet the needs of electricity users.



NXSAFE Metal armor switching switch equipment

Standards compliant

IEC 60298 and 60694 on the IEC 60298 and 60694

China National Standard GB3906

Power Industry Standard DL404

IEC 60694, GB11022 high –voltage switch equipment common technical conditions

IEC 60298, GB3906 AC metal closed switch equipment

IEC 60056, GB1984 high –pressure AC circuit breaker

IEC 60529 of the shell protection level

Technical characteristics

Cabinet design ideas are based on the safety of the operation on duty to the greatest extent.

All operations are performed under the closet door, independent partitions, and independent pressure channels.

Cabinet structure partitions, door locks, components, etc. with flame –resistant arc design ensure the safety of outside the cabinet under the condition of internal arc failure.

The partition grade PM (continuous ground metal closed state).

State the front –to –front of the safe door to ensure the safety of the maintenance personnel.

"Five Defense" locking agencies.

Each activity door is reliable.

Ground switch with short –circuit closing capabilities

The continuous performance of the concept of standardization and air insulation reduction reduces the interruption of operation and improves productivity.

Metal closed air insulation type

Function unit combination

Compartment

Main breakthrad/contactactor interchangeability

It meets the standards of global public power supply services and users, easy installation, convenient operation, friendly man –machine interface.

Installation

Backfall

Maintenance and operation in front of the cabinet

Simpage –by –screen parent line makes the cabinet simple

The cable room makes the cable connection simple in the front of the cabinet

Parameter

Serial number	Name		unit	Value
1	Rated voltage		kV	12
2	Rated frequency		Hz	50
3	Rated current		A	≤ 5000
4	Warming test			1.1Ir
5	Rated industrial frequency tolerance voltage (1min)		kV	42
6	Rated lightning shock tolerance voltage (peak)		kV	75
7	The rated short –circuit open current		kA	40
8	The rated short –circuited closed current		kA	100
9	The rated short –term tolerance current and duration		kA/s	40/4
10	The rated peak tolerance current		kA	100
11	Auxiliary and control circuit Short –time work frequency tolerance voltage		kV	2
12	Partial Discharge	Test voltage	kV	1.1 × 12
		Single insulation	pC	≤ 3
13	Protection level	shell		IP4X
		Interval		IP2X
14	Climbing distance	Porcelain material (to the ground)	mm	≥ 216
		Organic material (to the ground)		≥ 240
15	Separation and relatively clean distance (air insulation)		mm	≥ 125
16	Lost running continuity category			LSC2
17	SMC partition (if there is) to the minimum cleaning of the charged conductor		mm	≥ 30
18	SMC partition thickness		mm	≥ 5
19	cooling method			Self –cold ¹⁾
20	Internal arc allows duration		s	≥ 0.5
Note: 1) When the rated current is ≥ 3150A, it needs to be used.				



NXSAFE550-12 Armor-mounted metal closed switch device

Feature review

NXSAFE550-12 Armor-mounted metal closed switching equipment (hereinafter referred to as NXSAFE550-12 switch cabinet) is suitable for three-phase exchange 50Hz, 7.2 ~ 12KV single-bus and single-bus segmented power system, which has the "five defense" function. The switch cabinet can be migrated
Open part can be configured with components such as vacuum circuit breakers and vacuum contactors.

Standard and specification

NXSAFE550–12 switch cabinet meets standards such as IEC298, GB3906, DL404.

The protection level of the switching cabinet shell is IP4X. When the door of the interruption room is opened and the hand car is removed, the protection level is IP2X.

NXSAFE550–12 The normal working conditions of the switch cabinet are as follows:

Indoor environmental temperature	
Maximum temperature	+40℃
The average daily value is not greater than	+35℃
lowest temperature	–15℃
Interior environment humidity:	
Average daily relative humidity	95%and below
Average monthly relative humidity	90%and below
The altitude of the installation place	1000M and below
seismic intensity:	No more than 8 degrees
There are no places where fires and explosions are dangerous, and there are no severe filth and chemical corrosion.	

Switch cabinet electrical parameter

Rated voltage		kV	12
Rated insulation level	1min industrial frequency resistance (effective value)	kV	42
	Lightning impact resistance (peak)	kV	75
Rated frequency		Hz	50
The rated current of the main parent line		A	630,1250
The rated current of the branches		A	630, 1250
4 seconds hot stable current (valid value)		kA	16, 20, 25, 31.5
The rated stable current (peak) ***		kA	40, 50

*You need to equip ventilation device

** 40 ka for 3 seconds

*** The short –circuit capacity of the intestinal sensor should be considered separately



NXGEAR Armor box –type fixed metal closed switch equipment

Feature review

NXGEAR –type armor –type fixed metal closed switch device is a fixed –type switching device with a fixed –type installation of circuit breaker. It is suitable for substations and distribution stations. Its novel independent partitions, independent atresia, and independent channels (Isolated Compartment, Independent Locking, Independent Channel) product features, compatible with the trend of compact, intelligent, and modular customer demand, can meet users in the field of power distribution fields Value requirements.

Model definition

NXGEAR-	/12	630V	25-	V	
Armor fixed switch equipment	Rated voltage 12 kv	Rated current	The rated open current: 25KA 31.5ka	V VPT PT G VL D M ATS T	Circuit breaker unit Router breakage+PT unit PT unit Isolation unit Maternal union Improve the bus unit Measuring unit Dual power unit Transformer unit

Technical parameter

project		unit	data
Rated voltage		KV	12
Rated insulation level	1min industrial frequency resistance	KV	42
	Lightning strike impact resistance	KV	75
Rated frequency		HZ	60
Rated current		A	630 1250
The rated symmetrical short -circuit open current (valid value)		KA	25 31.5
Asymmetric short -circuit open current (valid value)		KA	27.3 34.3
The rated peak tolerance current (peak)		KA	40 50 63 80
The rated short -time tolerance current (valid value) 4S		KA	20 25 31.5 40
Return to the voltage rise in smooth recovery		KA/ms	0.345 0.415
Time -restable voltage peak value		KV	20.6 30
Rated operation sequence			0.3s-combination -180s-combination
Mechanical operation life		Second-rate	30000
Closing time		ms	≤ 70
Splitting time		ms	≤ 45
Burning time		ms	≤ 15
Disconnection time		ms	<60
Headscase wire current		A	1.2
Subtraction coil current		A	1.2
Control voltage		V	DC/AC 220 110 48



R-AIR Normally –sealing air insulation switch equipment

Feature review

The investment of the R-AIR normally sealing air insulation switch equipment is Hunsmai's high self-challenge to its own business technology, and it is the phased achievement of Hunsmai's efforts to achieve the goal of the "NON SF6" concept of the medium voltage distribution equipment.

R-AIR normally sealing air insulation switch equipment uses clean and dry air as the insulating medium, vacuum arc extinguishing is an arc extinguishing method, and the passage test of the passage test.

The R-AIR omniscipating sealing air insulation switch equipment not only meets the basic needs of power users' safety, reliable and continuous demand for power equipment, but also provides users with new value in compact, intelligent, and environmental protection; Power grids, one or two power distribution stations, smart buildings, industrial, infrastructure, etc.

Model definition

R-AIR-	/12	630/	25-	V	
Normally –sealing air insulation switch equipment	Rated voltage 12 kv	Rated current	The rated open current: 20KA 25KA (optional)	V C D VL G M PT V+ C+ ATS T	Circuit breaker unit Load switch unit Bus unit S u b s t i t u t i o n a l u n i t segmentation unit Isolation unit Measuring unit PT unit Cable side circuit breaker unit Cable side load switch unit Dual power unit Transformer unit

Technical parameter feature table

name		unit	标准参数值
Rated voltage		kV	12
Insulation medium			Dry air
Arc Different Room Type			vacuum
Rated frequency		Hz	50
Rated current		A	630/1250
Temperature rise test current			1.1I _r
The rated work frequency 1min tolerance voltage (relative)		kV	42
The peak value of the rated lightning shock tolerance tolerance (1.2/50s) (relatively)		kV	75
The rated short –circuit open current		kA	20/25
The rated short –circuited closed current		kA	50
The rated short –time tolerance current		kA/s	20/4
The rated peak tolerance current		kA	50
Arc current and burning arc duration		kA/s	≥ 20/0.5
Break the number of times under the condition of the rated load		次	100
Auxiliary and control circuit Short –time work frequency tolerance voltage		kV	2
Control the power supply	Control loop (independent)	V	DC 48/DC110
	Auxiliary circuit	V	DC 48/DC110
	Energy storage circuit (independent)		DC 48/DC110
Life		year	≥ 40
Protection level	Cabinet shell		IP4X
	Air tank		IP67
Movement mechanism type			Electric and manual operation function
Bosin –side auxiliary contact		pair	6 dynamic and 6 dynamic break
Automation configuration			Mobile network automation interface



NXRING

Gas insulation ring network cabinet

Feature review

The NXRING gas insulation switch equipment passes the type test. The SF₆ gas insulation household inner metal closed single –bus switching equipment is suitable for the power distribution system in the secondary power distribution system and industrial field of the public power grid.

Its compact features and module extensions make it a good cabinet type for secondary power distribution applications.

Model definition

NXRING-	12	20	C
SF6 ring network switch device model	Rated voltage 12 kv	The rated open current: 20KA 25KA (optional)	C-load switch V-vacuum circuit breaker F-load switch fuse combination electrical appliance PT-voltage transformer M-meter D-homeline T-transformer +Side cable qualifying ATS dual power supply

Circuit breaker and operation mechanism

project	unit	Value	Remark
Rated voltage	kV	12	
Rated frequency	Hz	50	
Rated current	A	630	
The rated short -circuit open current	kA	20, 25	
The rated peak tolerance current (peak)		50, 63	
Form short -time tolerance current (4S)		20, 25	
The rated short -circuit level -off current (peak value)		50, 63	
1min industrial frequency tolerance voltage	kV	42/48 (phase, ground/ fracture)	SF6 gas
Lightning impact tolerance voltage		75/85 phase, opposite/ fracture)	SF6 gas
The number of short -circuit currents at the rated short circuit	Second-rate	30	
Mechanical life		10000	
Master circuit resistance	$\mu \Omega$	≤ 30	Circuit breaker body
		≤ 65	Disclosure of circuit breaker ontology

Load switch and operation mechanism

project	unit	Value	Remark
Rated voltage	kV	12	
Rated frequency	Hz	50	
Rated current	A	630	
Form short -time tolerance current (4S)	kA	20	
The rated peak tolerance current (peak)		50	
The rated short -circuit level -off current (peak value)		50	
The rated load on the load open current	A	630	
The rated power distribution line closed loop open -cut current	A	630	
Rating cable charging open current	A	135	
1min industrial frequency tolerance voltage	kV	42/48	SF6 gas
Lightning impact tolerance voltage		75/85	SF6 gas
Mechanical life	Second-rate	5000	
Master circuit resistance	$\mu \Omega$	≤ 35	

Load switch fuse combination electrical appliances and operation mechanism

project	unit	Value	Remark
Rated voltage	kV	12	
Rated frequency	Hz	50	
Rated current	A	Melt current	
Form short -time tolerance current (4S)	kA	20	
The rated peak tolerance current (peak)		50	
The rated short -circuit level -off current (peak value)		50	
The rated load on the load open current	A	630	
The rated short -circuit open current	kA	31.5	
Rating transfer current	A	1750	
Maximum current with a fuse	A	125	
1min industrial frequency tolerance voltage	kV	42/48	SF6 gas
Lightning impact tolerance voltage		75/85	SF6 gas
Mechanical life	Second-rate	3000	
Master circuit resistance	$\mu \Omega$	≤ 300	



NXRING-ATS

Dual power switching cabinet in gas insulation households

Feature review

NXRING-ATS gas-type insulated household dual-power automatic switching cabinet is a compact SF6 gas insulation switching equipment. It has the compact and reliable technical characteristics of the SF6 switching equipment. Control device to form application scenarios such as automatic circulation and dual -power supply for automatic circulation and important loads in the secondary power distribution scenario.

NXRING-ATS gas-type insulated household dual-power automatic switching cabinet can adopt two technical solutions of circuit breakers and load switching, which is configured according to the characteristics of user load.

Configure the COGEAR -type mechanical chain dual power operation mechanism, and its design concept of the lock main axis to ensure the high reliability of the dual power supply system. From the mechanical structure, the dual -road entry will not be at the same time. Reliably prevent other accidents caused by equipment reasons.



NXSAFE-VAR High –voltage parallel container compensation device

Feature review

NXSAFE-VAR high-voltage parallel container compensation device series products are widely used in 10kV lines (outdoor or outdoor) non-effective automatic compensation device. It can monitor the voltage, current, powerless and power factor of high-voltage lines in real time. Based on these parameters, dynamic monitoring compensation for high –voltage grids; it plays an important role in improving the power factor and voltage of the line power, reducing line loss, and improving the power supply quality of the power grid.

Model naming

NXSAFE-VAR	- □	/ □	- □
High –voltage parallel power capacitor group	End pressure high pressure (KV)	Compensation total capacity (KVAR)	Scheme number



SOGEAR Solid insulation ring network switch equipment

Feature review

SOGEAR. Solid insulation ring network switching equipment, adhering to the in-depth research on the basic technology of solid insulation basic technology and the in-depth understanding of the demand for secondary power distribution electricity users in the new era Switch device. Green and environmentally friendly epoxy resin materials replace the application of SF6 gas to reduce the greenhouse effect in the process of use and its decomposition of the environmental pollution and personal damage to the environment. All technical features such as full insulation and full-closed, vacuum arc extinguishing, spring/permanent magnetic agency, isolation fracture visual, reliable atresia, compact boxes, etc. make SOGEAR solid insulation ring network switching equipment very suitable for 12/24kV voltage levels, 630/630//630//630/ The 1250A rated current, 20/25ka turn off current and the mid-voltage distribution system, such as the secondary power distribution application of the ring network power supply, power distribution room, opening and closing office, dual-radiated power supply.



NXGIS-40.5 Middle pressure gas insulation switch equipment

Feature review

The gas insulation switch equipment must pass the inspection of the factory test after completing the assembly in the factory. All high –pressure components are closed in the gas chamber made of stainless steel plates with good gas tightness. Each air –to –air room is charged with SF6 insulating gases. SF6 is a hexarin sulfur, an artificial synthesis gase, and its molecule is composed of one sulfur atom and six fluorine atoms around it.

Because SF6 (hexarin sulfur) gas has good chemistry and physical properties (excellent insulation performance), it is widely used in products with 40.5kV voltage levels and achieved good results.

Components, including power cables, bus and voltage transformers, all use our rigorously verifying reliable insert technology and install it to the switch device through insertion.

The above–mentioned advantages gathered together to produce an excellent NXGIS–40.5 series switching equipment with an excellent, completely sealed, and on–site air–free gymnastic operation.



Compact cabinet size (standard cabinet 520mm wide)
Visual isolation break
Integrated circuit breaker combination electrical appliance

NXPANEL Compact air insulation switch equipment

Feature review

NXPanel's compact air insulation switch equipment is a switching equipment developed by Hunsmai (Hangzhou) Electric Power Technology Co., Ltd. for the technical interpretation of the reliability, safety and compact needs of electric equipment for electricity users. It has the characteristics of air insulation, compact, complete intellectual property rights, and comprehensive test. It is suitable for 12/7.2KV power distribution systems such as public buildings, commercial residential buildings, and industrial and mining manufacturing industries, and is also suitable for complete machinery and equipment drivers with high compact motors.



NXGREEN

Box fixed environmental protection sealing air insulation AC metal closed switch equipment

Feature review

NXGEAR fixed environmentally friendly sealing air insulation exchange metal closed switch equipment is a new generation of environmental protection switch equipment. The box –type fixed environmental protection sealing air insulation exchange metal closed switch equipment uses ordinary clean air as the insulation medium instead of the application of SF₆ gases. The application of ordinary air as the insulation medium is green and environmentally friendly during the use of the device. NXGEAR –type fixed –type environmentally friendly sealing air insulation AC metal closed switching equipment also has the characteristics of full insulation and fully enclosed, vacuum arc, isolation, and compact product features. It is particularly suitable for secondary power distribution applications.



EXSINE Low –voltage drawing switch cabinet

Model and meaning

EXSINE	–2000	–FA
Low –voltage drawing switch cabinet	Rated current	<p>Fixed framework cutter cabinet Exsine–FA width 600, 800,1000,1200</p> <p>Fixed framework broken circuit breaker mother coupling Exsine–FB width 600,800,1000,1200</p> <p>Fixed separation of feedback from Exsine–FF width 600, 800</p> <p>Exit–type feeding out of EXSINE–WF width 600, 800</p> <p>Fixed dual–power cabinet Exsine–Fats width, 800,1000,1200</p> <p>Fixed compensation cabinet Exsine–FC width 600, 800,1000,1200</p> <p>Draw the compensation cabinet Exsine–WC width 600, 800</p> <p>Fixed drive cabinet Exsine–FS width 600, 800,1000,1200</p> <p>Motor control cabinet Exsine–FM width 600, 800</p> <p>Fixed technology cabinet Exsine–FT width 600, 800,1000, 1200</p> <p>Emergency pick–up EXSINE–FY</p>

Technical characteristic description

Exsine power distribution and motor control center

Reliable design

The original component of Hesmai

In line with China's national standard GB7251.1

Comply with the International Electricity Commission standard IEC61439-1/2

Uniquely designed Square mouth –shaped steel to ensure the super strength of the cabinet type

Safe design

The rated current of the main parent line is 6300A, short –term tolerance current 100ka/s

Anti –internal combustion arc design

The bus is at the upper independent partition

One or two independent partitions and protection

Drop –drawer test location protection level is IP2X

Drawer operation mechanical chain function

Arc light protection device function

Independent partition isolation

Intelligent design

DavidCloud Intelligent Cloud Platform

Cloud panel display unit

Analysis of temperature and temperature measurement

remote control

Supporting intelligent power analyzer

Flexible design

Fixed separation and drawing flexible configuration

Easy to expand and replace

Modern and drawing design improves the continuity of operation

Simple cable connector

Way of entering and leaving

User interface friendly

Economic design

Large current design

High density installation

Reliable wall installation

Repair

Basic parameters

Main circuit rated voltage (V)		Exchange 380 (400), (660)	Exchange 380 (400), (660)
Auxiliary circuit rated voltage (V)		Exchange 220, 380 (400)	DC 110/220
Rating frequency (Hz)		50(60)	50(60)
Rating insulation voltage (V)		660(1000)	660(1000)
Rating current (a)	Horizontal parent line	≤ 6300	≤ 6300
	Vertical bus (MCC)	1000	1000
Rabbitable short –term tolerance current (KA/1S)		50,80	50,80
The rated peak tolerance current (KA/0.1S)		105,176	105,176
Work frequency test voltage (V/1min)	The main circuit	2500	2500
	Auxiliary circuit	1760	1760
Parent line	Three –phase and four –line system	A, B, C, PEN	A, B, C, PEN
	Three –phase and five –line system	A, B, C, PE, N	A, B, C, PE, N
Protection level		IP30, IP40, IP54	IP30, IP40, IP54



NXLINK Cable branch

Feature review

The cable branch box is widely used in the cable –based engineering equipment in the power distribution network system in recent years. Its main feature is that the two –way door opening, using wall –pipes as connecting the parent row. There are significant advantages such as large span crossing. The cable joints adopted meet the DIN47636 standard. The rated current 630A bolts are generally used.

Model and meaning

NXLINK	□	- □	□
Cable semi –box	Voltage level	The number of circuits (the total number of in –and out lines in one phase)	A is the default of a minefielder to not bring



VHZ4M Fast circuit breaker

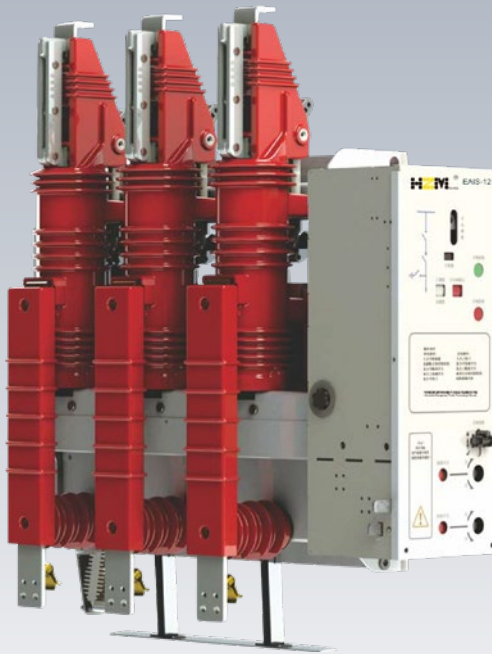
Feature review

The permanent magnet operation mechanism of the VHZ4M-12 real vacuum circuit breaker and the vacuum arc extinguishing room are arranged up and down, the direct structure, the leading electric circuit is a floor-type structure. In the tube-shaped epoxy resin cylinder, this structure makes the vacuum arc extinguishing room no dust gathering, avoiding the destruction of external factors, and ensuring that the product still has good insulation performance in the humid heat and severe pollution environment.

The permanent magnet mechanism is a vacuum interior installation and air insulation, which is used to open up and close the power load of various properties. It is suitable for the construction and reconstruction of power grids such as urban networks, agricultural networks, mines, and railways. There are certain occasions that are frequently operated in the working current and the number of short-circuit operations. It is suitable for the occasion of cutting capacitors, electrical resistors, rapid brakes, and portion control. This product absorbs advanced technologies and processes at home and abroad. It has the characteristics of intelligence, high reliability, long life, and maintenance. It has no pollution to the surrounding environment and is a green and environmentally friendly product.

Model definition and environmental conditions

VHZ4M	- 12	/ M	□	- □
Fast circuit breaker	Rated voltage (KV)	Permanent magnet operation agency	Rating current (A)	The rated short-circuit open current (KA)



EAS integrated combination electrical appliance

Feature review

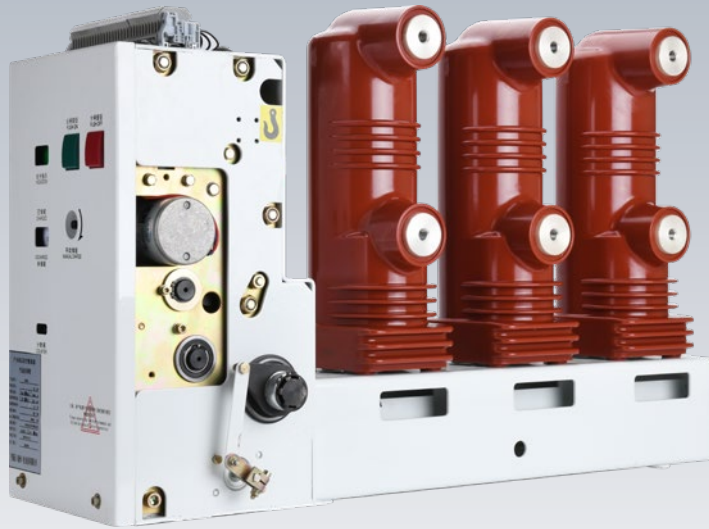
EAS integrated combination of electrical appliances is a switching equipment developed by Hunsmai (Hangzhou) Electricity Technology Co., Ltd. for the technical interpretation of electrical users' technical interpretation of electrical equipment reliability and compactness. Products with air insulation, compact, complete intellectual property rights, and comprehensive test. It is suitable for 12KV/7.2KV power distribution systems such as public buildings, commercial residential buildings, and industrial and mining manufacturing industries. It is also suitable for the configuration of complete machinery and equipment driven by high-voltage motors drivers with high compactness.

Product use environmental conditions

Altitude does not exceed 2000;
 Environmental temperature +40 °C ;
 The average daily value of relative temperature is not more than 95%, and the average monthly average is not more than 95%;
 The surrounding air should not be corrosive or abundant gas, water vapor and other significant pollution;
 No constant violent vibration;
 When using different conditions or other requirements, you need to negotiate with the manufacturer.

Product Specifications

Rated voltage: 12KV
 1min industrial frequency resistance: 42KV
 Lightning impact resistance: 75/85KV
 Rated current: 630 ~ 1250A
 Rating frequency: 50/60Hz
 The rated short-circuited current: 25ka/31.5ka
 Form short-time tolerance current: 25ka/31.5ka
 The rated peak tolerance current: 50ka/63KA
 The number of short-circuit currents at the rated short-circuit: 30 times
 Mechanical life: 10000 times (circuit breaker)
 Auxiliary circuit Ge Frequency tolerance voltage: 2000V
 3000 times (isolation switch/ground switch)



VHZ4 Side installation vacuum circuit breaker

Feature review

VHZ4 side installation vacuum circuit breaker is a three –phase exchange of 50Hz and a fixed –installed switch equipment with a rated voltage 12kV. It is mainly used for the control and protection of power plants, substation and power distribution systems, and is also suitable for places where the circular network supply and distribution, open breaking important loads and frequent operations.

Use a solid –sealing chilled pillar insulation form.

Product model naming rules

VHZ4	– 12	/ T	630A	–25kA
Side installation vacuum circuit breaker	Rated voltage KV	Spring mechanism	The rated current: 630A/1250A/1600A	The rated short break –off current: 25ka/31.5ka

Reference Standard:

GB/T1984–2003

IEC60056–2001 "High–pressure AC circuit breaker"

GB/T16927–1997 "High voltage test technology"

GB/T4473–1996

DL/T403–1991 "Technical Conditions for Ordering of 10 ~ 35KV Interior High–pressure Lanthest Disclosure"

JB3855–1996 "3.6 ~ 40KV Ondo AC Exchange High Volidation Breakthrough"



12–17.5KV
630–4000A
25–40ka

The arc extinguishing room solidly seal chip
Modular operation mechanism
Status intelligent monitoring system

VHZ4 / VHZ4i Intelligent vacuum breakfire

Feature review

Through various advanced sensing technology, digital technology, embedded computer technology, wide –area communication technology, online monitoring technology, and fault diagnostic technology, real –time perception, surveillance, analysis, prediction, and fault diagnosis of circuit breakers are realized.

VHZ4I Smart Qlene Disposter provides a valuable circuit breaker and switching solution for the project, which can be applied to the removal switching equipment, fixed switching equipment and engineering transformation. Suitable for transformers, motors, cables, overhead wires, generators, capacitors groups, medium –voltage electrical electronics equipment, inductor equipment and other electric equipment.

The online monitoring system is used to monitor the action parameters, evaluate health, and identify potential defects. Monitoring parameters include: one –time break –off current, division/closing wiring current, energy storage motor current, contact itinerary, mechanical vibration, switching assisted contact status, control circuit voltage, etc. The health status of the circuit breaker is evaluated by analyzing the recording wave curve and combining the comparison of the standard curve library.

Product model naming rules

VHZ4i-	12	/630	/25	-E
Intelligent vacuum Router	Rated voltage	Rated current	Turn off current	E: Draw out structure F: Fixed structure

model	Phase distance mm	Rated voltage KV	Rated insulation level		The rated operating frequency Hz	Rating current A	The rated peak tolerance current (50/60 Hz) kA	Rating short-time tolerance current (4S) KA	The rated short -circuit open current		Air -load cable open current A	Rated operation sequence	
			Short -time industrial frequency tolerance KV	Lightning impact tolerance voltage KV					The rated short -circuit open current KA	DC component percentage%		0-0.3s - CO - 180s - CO	0-180s -CO - 180s - CO
VHZ4-12-630-25	210/275	12	42	75	50		63	25	25	45	25	●	●
VHZ4-12-1250-25	210/275												
VHZ4-12-1600-25	210/275												
VHZ4-12-2000-25	210/275												
VHZ4-12-2500-25	275												
VHZ4-12-3150-25	275												
VHZ4-12-4000-25	275												
VHZ4-12-630-31.5	210/275	12	42	75	50	630	80	31.5	31.5	45	25	●	●
VHZ4-12-1250-31.5	210/275					1250							
VHZ4-12-1600-31.5	210/275					1600							
VHZ4-12-2000-31.5	210/275					2000							
VHZ4-12-2500-31.5	275					2500							
VHZ4-12-3150-31.5	275					3150							
VHZ4-12-4000-31.5	275					4000*							
VHZ4-12-1250-40	210/275	12	42	75	50	1250	110	40	40	45	25	●	●
VHZ4-12-1600-40	210/275					1600							
VHZ4-12-2000-40	210/275					2000							
VHZ4-12-2500-40	275					2500							
VHZ4-12-3150-40	275					3150							
VHZ4-12-4000-40	275					4000*							

model	Switch operation life cycle				Minimum/ maximum match time ms	Minimum/ maximum brake time ms	Jiezha Jump MS	Bombard	The contact thickness of the contact mm	Energy storage time S	Arc time ms	weight**	
	mechanical		electric									Fixed kg	Hand car kg
	Manipulation agency	Vacuum arc	Rated current	Full -circuit current									
VHZ4-12-630-25	30,000	30,000	10,000	100	35/70	25/40	≤ 2	≤ 2	3	≤ 10s	2~15	95/105	120/130
VHZ4-12-1250-25												105/110	120/130
VHZ4-12-1600-25												155/175	190/200
VHZ4-12-2000-25												155/175	200/210
VHZ4-12-2500-25												195	295
VHZ4-12-3150-25												195	295
VHZ4-12-4000-25												195	295
VHZ4-12-630-31.5	30,000	30,000	10,000	100	35/70	25/40	≤ 2	≤ 2	3	≤ 10s	2~15	95/105	120/130
VHZ4-12-1250-31.5												105/110	120/130
VHZ4-12-1600-31.5												155/175	200/220
VHZ4-12-2000-31.5												155/175	200/220
VHZ4-12-2500-31.5												195	295
VHZ4-12-3150-31.5												195	295
VHZ4-12-4000-31.5												195	295
VHZ4-12-1250-40	20,000	20,000	10,000	100	35/70	25/40	≤ 2	≤ 2	3	≤ 10s	2~15	155/175	200/220
VHZ4-12-1600-40												155/175	200/220
VHZ4-12-2000-40												155/175	200/220
VHZ4-12-2500-40												195	295
VHZ4-12-3150-40												195	295
VHZ4-12-4000-40												195	295

Note: 1) When the rated current reaches 4000A, it is necessary to bring forced wind and cold.

2) ** product net weight is only for reference.

3) If you have special requirements, please consult the factory.

4) Control KYN cabinet type.



EXT Framework

Feature review

The EXT air circuit breaker is mainly used in the mainstay of the intelligent automatic power distribution system. It has the characteristics of large –cut current, modular miniaturization design, human –machine friendship, and simple installation and maintenance.

Using Hilologic Intelligent Control, it not only has various protection functions of traditional circuit breakers, but also has various electrical parameters (current, voltage, power, power factor, etc.) in real –time display circuits. , Measurement, testing, self –diagnosis, communication can be displayed, set, store, and modify the action parameters of various protective functions, and pass the compulsory product certification 3C certification.

The main technical indicators of the air circuit breaker

Framework level rated current INM (A)		2000	3200	Increasing 4000	6300
The rated current in (a)		630 800 1000 1250 1600 2000	2000 2500 3200	3200 3600 4000	4000 5000 6300
The rated work voltage UE (v)		AC400/690V 50HZ			
Rate insulation voltage UI (v)		AC1000V 50HZ			
Rate impact tolerance voltage UIMP (v)		12KV			
Work frequency tolerance U		AC1890V 1min 50HZ			
Extreme		3、4			
N pole rated current in (A)		50%In/100%In			
The rated limit short –circuit division capacity ICU (KA) (Valid value)	AC400V	100	100	100	120
	AC690V	65	65	65	85
Rate –run short –circuit division capacity ICS (KA) (Valid value)	AC400V	65	65	65	100
	AC690V	50	50	50	75
Rate short –circuit connection capacity ICM (ka) (Peak)	AC400V	176	220	220	264
	AC690V	105	143	143	165
The rated short –time tolerance current (IS) ICW (KA) (Valid value)	AC400V	65	65	65	100
	AC690V	50	50	50	75
Full division time (no additional latency) (MS)		25–30			
Closing time (MS)		Maximum 70			
smart controller		Hilogic6.0 standard type			
		Hilogic7.0 communication type			
Operating performance	Electrical life	AC400V	500	500	500
		AC690V	500	500	500
	Mechanical life	Exemption	2500	1500	1500
		Maintain	10000	10000	8000
Connection method		Horizontal and vertical	Level	Level	Level
Type		Drawer			
		Fixed			



EXE-HIC1.0 Hot magnetic adjustable plastic shell cutter

Product model naming rules

EXE	125	M	125	HIC1.0	3P	-F	appendix
Hot magnetic plastic shell air circuit breaker	Shell current:125 250 400 800	Division ability M: Basic type H: High score	Rated current 125 250 400 800	Take off unit: HIC (Hilongic) 1.0	series 3P 4P	Installation method Fixed F (Not marked) Insert P	Code AX AL MX Mn Mch



EXE-HIC2.0

Remaining current as a circuit breaker

Product model naming rules

EXE	125	M	125	HIC2.0	3P	appendix
Remaining current as a circuit breaker	Shell current: 125 250 400 800	Division ability M: Basic type H: High score	Rated current 125 250 400 800	Take off unit: HIC (Hilongic) 1.0	series 3P 4P	Code AX AL MX Mn Mch



EXE-HIC3.0 Plastic shell break

Feature review

Exe-HIC3.0 series smart circuit breaker is suitable for three-phase and four-line power supply environment. Its rated insulation voltage is 1000V, which is suitable for the power distribution network circuit with a rated working voltage of 400V or 690V, and the rated working current to 1600A. It is used to distribute power and protective lines and equipment.

The EXE-HIC3.0 series smart circuit breaker uses electronic deedr with three-stage protection function, equipped with RS485 communication interface, Potter rate 1200-9600pbs optional, factory defaults to 9600bps. Communication rules Modbus/DL/T645-- In 2007, one of the two can achieve remote measurement, remote control, remote, and remote faith function of electricity.

Products meet the standard: GB14048.2-2008.

Product model naming rules

EXE	125	M	125	HIC3.0	3P	appendix	-Adm communication scheme
Plastic shell break	Shell current: 125 250 400 630 800 1250 1600	Division ability M: Basic type H: High score	Rated current 125 250 400 630 800 1250 1600	Take off unit: HIC (Hilongic) 3.0	series 3P 4P	Code AX AL MX Mn Mch	COM1 COM2 COM3 COM4



Exe-HIC5.0 Plastic shell break

Feature review

Exe-HIC5.0 series smart circuit breaker is suitable for three-phase and four-line power supply environment. Its rated insulation voltage is 1000V, which is suitable for communication network circuits with a rated working voltage of 400V or 690V, and the rated working current to 1000A. Impact.

High –precision liquid crystal display interface, respectively display three –phase voltage, three –phase current, three –phase power power, three –phase total power, three –phase powerless power, total three –phase powerless power, three –phase power factor, total three –phase power power, total three –phase power power Factors, power grid frequency. With the collection and transmission of voltage, current, power, power and other data, the current accuracy of the current is less than 0.5, the voltage accuracy is less than 0.5, the power accuracy of the power power is less than 1 level, and the precise measurement accuracy is less than 2.

Exe-HIC5.0 series smart circuit breaker with RS485 communication interface, the baud rate is 1200–9600pbs, the factory defaults to 9600bps. The communication rules Modbus/DL/T645–2007 can be used , Remote, remote letter function.





Products meet the standard: GB14048.2–2008.

Product model naming rules

EXE	125	M	125	HIC3.0	3P	–F	appendix	–Adm communication scheme
Plastic shell break	Shell current 125A 250A 400A 630A 800A 1000A	Division ability M: Basic type H: High score	Rated current 125A 250A 400A 630A 800A 1000A	Take off unit: HIC (Hilongic) 5.0	series 3P 4P	Installation method Fixed square F (Not marked) Insert P	Code AX AL MX Mn Mch	COM1 COM2 COM3 COM4



EXS small standard circuit breaker

product name	EXS	EXSLE	EXP	EXPLE
				
Comprehensive data				
Standards compliant	GB 10963.1 IEC / EN60898-1	GB16917.1 IEC61009-1	GB 10963.1 IEC / EN60898-1	GB16917.1 IEC/EN61009-1
Accredit for certification	CCC	CCC	CCC	CCC
Extreme	1P,1P+N,2P,3P,3P+N,4P	1P+N,2P,3P,3P+N,4P	1P+N	1P+N
Rating current (a)	1-63	6-63	6-40	6-40
Rating frequency (Hz)	50/60	50/60	50/60	50/60
Electrical characteristics				
The rated work voltage UE	1P(V) 1P+N(V) 2P, 3P, 3P+N, 4P(V)	230/400 AC 230 AC 400 AC	230 AC	230 AC
Rating insulation voltage UI (v)	250 (relative place) / 500 (relative phase)	250 (relative place) / 500 (relative phase)	250 (relative place) / 500 (relative phase)	250 (relative place) / 500 (relative phase)
Maximum operating voltage UBMAX	1P, 1P+N(V) 2P, 3P, 4P, 3P+N(V) 1P(V)	230 AC 400 AC 60 DC	230 AC	230 AC
The rated short -circuit capability ICN (KA)	10	6	4.5	4.5
The rated impact tolerance voltage UIIMP (1.2/50) (KV)	4	4	4	4
Dielectric test voltage (KV)	2KV (50/60Hz, 1 minute)	2KV (50/60Hz, 1 minute)	2KV (50/60Hz, 1 minute)	2KV (50/60Hz, 1 minute)
Isolation function	have	have	have	have
Pollution level	2	2	2	2
Use category	A	A	A	A
Deduction form	Therm magnetic deduction	Therm magnetic deduction	Therm magnetic deduction	Therm magnetic deduction
Historite deduction characteristic	B -type curve (3LN ~ 5LN) C -type curve (5LN ~ 10LN) D -shaped curve (10In ~ 14LN)	— ■ ■	— ■ ■	— ■ ■
Electrical and mechanical accessories	■	■	■	■
Mechanical characteristics				
Machine life secondary	15000	15000	15000	15000
Electrical life secondary	10000	10000	10000	10000
Protection level	Installed in the distribution box Install directly	IP40 IP20	IP40 IP20	IP40 IP20

Product naming rules

EXS	1	C	16	R100	G
product name EXS: Small standard circuit breaker EXSL EXP: "Phase Line + Neutral Line" circuit breaker Exple: "Phase Line + Neutral Line" leakage protection router EXS125: Large current circuit breaker EXS125LE: Large current leakage protection router EXD: isolation switch EXX: Model Digitalized socket EXA: Smart self -duplex overvoltage reciprocating protector	Extreme 1: 1p 2: 1p+n 3: 2P 4: 3P 5: 3p+n 6: 4P	Deduction C: C -type D: D -type	Rated current 1 ~ 125A	Remaining current Deficiency: 30MA R50: 50MA R75: 75MA R100: 100MA R300: 300MA	Other functions Deficiency: No Over Protection G: Overvoltage protection

EXS125	EXS125LE	EXD	EXSX	EXA
				
GB14048.2 IEC/EN60947-2	GB14048.2 IEC60947-2	GB14048.3 IEC60947-3	GB2099/GB1002/GB1003	"Specification of House Building Electrical Design" 6.3.2
CCC	CCC	CCC	CCC	-
1P,2P,3P,4P	1P+N,2P,3P,3P+N,4P	1P,2P,3P,4P	2P,2P+E,3P+E	1P+N, 3P+N
63-125	63-125	20-63; 63-125	10,16,25	6,10,16,20,25,32,40,50,63,80
50/60	50/60	50/60	50/60	50
230/400 AC	-	230/400 AC	230/400 AC	-
-	230 AC	230AC	230 AC	230V
400 AC	400 AC(2P 230AC)	400AC	400 AC	230V
250 (relative place) / 500 (relative phase)	250 (relative place) / 500 (relative phase)	250 (relative place) / 500 (relative phase)	250 (relative place) / 500 (relative phase)	
230 AC	230 AC	230AC	230 AC	
400 AC	400 AC(2P 230AC)	400AC	400 AC	
-	-	-	-	
10	10	-	-	
4	4	4	-	
2KV (50/60Hz, 1 minute)	2KV (50/60Hz, 1 minute)	-	-	
have	have	-	-	
2	2	have	-	
A	A	-	-	
Therm magnetic deduction	Therm magnetic deduction	-	-	
-	-	-	-	
■	-	-	-	
■	■	-	-	
■	■	-	-	
8500 Second-rate (In ≤ 100A) 7000 Second-rate (In > 100A)	8500	8500	-	100000
3000 Second-rate (In ≤ 100A) 2500 Second-rate (In > 100A)	3000	3000	-	
IP40	IP40	IP40	-	
IP20	IP20	IP20	-	



Exvar Intelligent power capacitor

Model Description

EXVAR-	C	G	F	1 /	450	-20	.10
Intelligent power Capacitor	Technology used: A: Life span; C: Conventional type; T: Crystal tube; L: Filter type TL: Crystal Tube Filter Type	First -road capacitance Compensation method: G: Three -phase complement; F: Three -phase division; X: Three -phase line supplement	Second capacitor Compensation method: G: Three -phase complement; F: Three -phase division; X: Three -phase line supplement	Built -in compensation Controller; 1: Yes; 2: None; 3: voltage type	Rated voltage (V)	First road Capacitor capacity (KVAR)	Second way Capacitor capacity (KVAR)



Extsc High power crystal tube casting device

Model Description

EXTSC	-2	-40
High -power crystal gates Pipe switch	Compensation line: 2. Three -phase complement 3. Three -phase supplement	Control capacity (KVAR)

No contact switch	EXTSC-2-40	The capacitance group with a capacity of 40kvar and below is suitable for three -phase co -supplement.
No contact switch	EXTSC-3-40	The sum of the three -way capacity of ABC is 40kvar and below capacitors, which is suitable for three -phase supplement.
No contact switch	EXTSC-2-60	The capacitance group with a capacity of 60kvar and below is suitable for three -phase co -supplement.
No contact switch	EXTSC-3-60	The sum of the three -way capacity of ABC is 60kvar and below capacitors, which is suitable for three -phase supplement.



EXCA

Low –voltage parallel self –healing capacitor

Product model naming rules

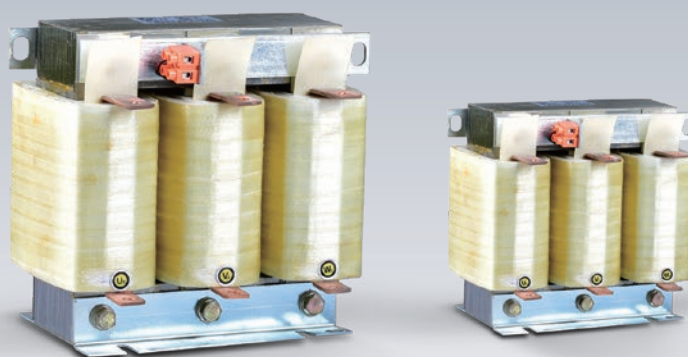
EXCA	–480	–30	–3
Paieded self –healing capacitors	Rated voltage (V)	The rated capacity (KVAR)	Extreme (3 indicates three phases, 1 indicates single phase)

use

The EXCA series capacitor has the characteristics of low –voltage self –healing products. It uses high –quality substrates and the most advanced manufacturing process. It is mainly used in the power system of 50Hz or 60Hz. quality. This product uses a one –type aluminum shell, which is not easy to rust and excellent heat dissipation performance; the product unit is seal, and the internal safety device is used to automatically pull the internal safety device. Dual electrical protection enables the product to be safe and reliable during operation and maintain excellent and stable electrical performance.

technical parameter

frequency		50Hz;60Hz
Capacitor tolerance		–5%~10%Cn(uF)
Langyong current (in)	0.250kv ~ 0.450kv level	200 × In
	0.480kv ~ 0.790kv level	300 × In
	0.820kv ~ 0.920kv level	200 × In
Life	t	100,000h
Care loss TAN &	tan&	< 0.40W/Kvar
	tan&0	< 0.25/Kvar
Ambient temperature	LCT/UCT	–25/d, maximum 55 °C
cool down		Natural cooling or forced cooling
Maximum altitude		Altitude below 2000 meters, (higher than 2000 meters, can be customized)
Installation location		Installation of vertical upward
safety		Over –pressure separator, heal self –healing
Discharge resistance		The discharge unit
Protective shell		Punching aluminum jar
Encapsulate		IP20, indoor assembly
Dielectric		Polypropylene film MPP
Injection		Inject vegetable oil or resin
Certification		GB12747 IEC831
Number of tugs		Maximum 2000 times/year



EXRE Tandem Electrical

Product model naming rules

EXRE	-480	-30	-7	-3
Series	Match capacitor Voltage (V)	Match capacitor Capacity (KVAR)	Electrical resistance	Extreme (3 indicates three phases, 1 means single phase, sometimes not marked)

use

When the capacitor compensates the capacity and has no power, it is often affected by the harmonic current, the gates and the operating voltage, causing capacitor damage and power factor. And absorb harmonic, protect capacitors, avoid harmonic voltage current and impact voltage current effects, improve the quality factor of the system, improve the power factor of the system, and extend the service life of the capacitor.

Environmental conditions

1. The altitude does not exceed 2000 meters;
2. The operating environment temperature -25°C to $+45^{\circ}\text{C}$, the relative humidity does not exceed 90%;
3. There are no harmful gases around, and it is not easy to ignite and explosive items;
4. The surrounding environment should have good ventilation conditions. If it is installed in the cabinet, ventilation equipment should be installed.

Performance parameter

Can be used for 0.4kV, 0.45kV, 0.48kV, 0.525kV;

Types of electricity resistance: 7%, 14%;

The level of resistance is: 5KV/min, insulation level: B, F-class, H-level, noise $\leq 30\text{dB}$, continuous operation within ≤ 1.35 times;

Structural features

1. The electric antibody is divided into two types: three and single-phase, both of which are iron-hearted;
2. The iron core uses high-quality cold-rolled silicon steel sheets, punching at a high-speed punch, has small burrs, uniform rules, and neatly stacked sheets to ensure the performance of low-temperature increase and low noise of electrical resistance;
3. The coil adopts a high-quality insulating wire. After the dedicated machine is winding, it has the advantages of good flatness and beautiful appearance;
4. During the assembly process, all fixtures are treated with corrosion treatment. The key clamps are made of non-magnetic materials, and the process of pre-drying-vacuum-soaked paint-thermal baking One-one, greatly reducing the temperature rise and noise during operation, effectively improving the quality factor of the electrical resistance and reducing the harmonic effect;
5. The size of the electrical anti-tone refers to the size design of the standard cabinet, with a small volume and convenient wiring, greatly saving the cost investment of user cabinet.



EXAPF Active filter

Model naming

EXAPF	150	/4	4L	/R	L
Active filter	400V capacity (KVAR): 025, 035, 050, 060, 100, 150 480V capacity (KVAR): 075, 150, 225, 300 600V capacity (KVAR): 075, 150, 225, 300	4: 400V voltage level 5: 480V voltage level 6: 690V voltage level	3L: Three -phase and three -line system 4L: Three -phase and four -line system	R: Ring type H: Wall -mounted F: Full cabinet style	L: LCD E: LED M: centralized monitoring



Himeter194 series multifunctional power instrument

Intelligent electricity test guidelines

HIMETER- □ 19

□	□	- □	□	□	/ □	□
Auxiliary generation, Express the input method 4-AC signal input 5-DC signal input	Function code I-current U-voltage P-Powerful power Q-non-power power F-frequency H-power factor E-Multifunctional Power Instrument UI-voltage current combination PQ-Powerless power factor combination Z-Network Power Instrument	Auxiliary generation, indicating the appearance of the instrument Appearance code Instrument Hole Size	Auxiliary generation, Function Description D-number display transmits to the smart table K-programmable number display table S-including: digital measurement and control instrument chart (Original programmable number showing alarm table); Multifunctional power instrument, Network power instrument F-Blood Rate Electric Table L-Economy programming number display table (Four display) H: Harmonic table	Auxiliary generation, Show display 1-single row number show 4-three-row number show Y - L C D display	Auxiliary generation, Specific function description B-transmission J-relay output K-switch quantity input C-RS485 Communication R-Really effective value measurement F-Reproduction rate Electricity	Special code
		2 3 5 9 A D	42 square 6 square 5 slot shape Nine square A square D micro square	108x108 76x76 92x44 88x88 67x67 4 x45		



NXATS Mid –voltage dual power supply

Feature review

NXATS mid –voltage dual –electrical source circuit breaker, the unique chide design and integrated operation mechanism design of patented technology, reliable atresses, safely prepared.

Configuration transfer switch equipment can be combined into a cross –pressure dual –power automatic switching system with bypass.

technical parameter

project	unit	parameter
Rated voltage	kV	12
Rated industrial frequency tolerance voltage (1min)	kV	42
The rated lightning shock tolerance voltage	kV	75
Rated current	A	630/1250
The rated short –circuit open current	KA	25/31.5
The rated short –time tolerance current	kA	25/31.5
The rated peak tolerance current	kA	63/80/125
Internal arc protection level		IAC A FLR 31.5KA/1S
Conversion operation method		Cold spare/hot backup



NXLINE Mid –pressure fast coupling connector

Feature review

NXLINE coupling connectors are used for emergency or mobile power supply application scenarios such as emergency 10KV trails, large current current access systems, and mobile power supply equipment access systems.

NXLINE coupling large current connector has the characteristics of reliable, locking safely, and convenient technical characteristics. The coupling large –current connectors passing the type test have good supportingness and meet the technical standards of GB and IEC –related related technical standards.

Product naming rules

NXLINE	630A	–12
Hunsmat fast coupling connector	Rated current: 630A;	Voltage: 12KV

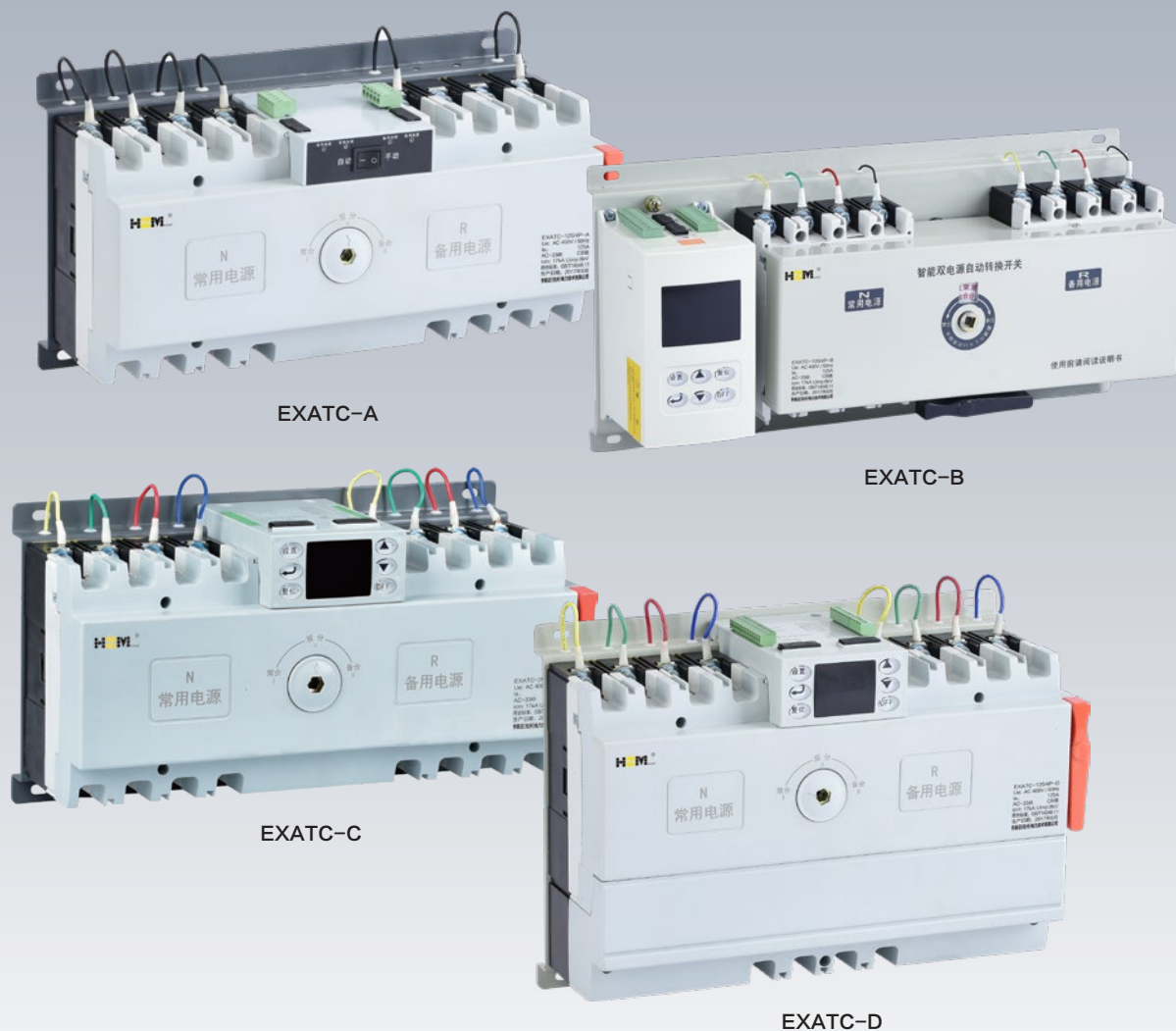
EXLINK	630A	–400
Hunsmat fast coupling connector	Rated current: 630A; 1000A;	Voltage: 400V

EXLINK Quick coupling connector

Feature review

EXLINK coupling connectors are used for emergency or mobile appliance application scenarios such as emergency tram rapid access systems, large current current access systems, charging pile emergency access systems, and mobile power supply equipment access systems.

EXLINK coupling large current connector has the characteristics of reliability, locking secure, and convenient technical characteristics. The coupling large –current connectors passing through type tests have good supporting support, which meets the technical standards of GB and IEC –related related technical standards. It can be supported by supporting electricity manufacturers, CCC and CQC and other product technical certification.



EXATC Series automatic conversion switch

Product model naming rules

EXATC	-A	-125	-3P	/125A	-Y
Automatic conversion switch	A-1: end type A-2: Fire type B: Smart type; C: Two -in and two out expanded types; D: Two -in and one out of the expansion type	Shell current grade: 63A-1600A	Extreme 4P: Four Polar, Banding endless N; 3P: Trivers; 2P: Tier 2	Working current: 10A-1600A	Controller Installation method Y: Integrated N: split

Feature review

The EXATC series automatic conversion switch (hereinafter referred to as the conversion switch) is a new generation of dual -power products independently developed by the company. Suitable for thousands of AC 50/60Hz, the rated operating voltage of 230-400V, and the rated current from a dual power supply system from 10A-1600A. When a common power supply fails, the conversion switch can realize the automatic conversion of the backup power supply or generator to ensure the reliability and safety of power supply. You can also perform selective switching between the two -way power supply according to the needs of the load. The product has the function of overloading, under pressure, short circuit, and disconnection. It is particularly suitable for important places that do not allow power -offs as important electrical equipment that does not allow power off power supply to ensure continuous power supply. When the dual -power automatic conversion switch is installed and used at the same time as the leakage circuit breaker, the leakage section should be installed on the load side (out of the line) of the dual power automatic conversion switch.

The product meets the GB/TL 40 48. 11 standard. The product type is CB level.



EXATC PC –level dual –power automatic conversion switch

Product model naming rules

EXATC	/125	/3P	-PC	- II
Product number	Shell shelf current level: 100A–3200A	Extreme 4P: four poles, neutral Nthe N; 3P: Trivers; 2P: Tier 2	PC	Control type: Type I fully automatic; Type II fully automatic+force "0"; Type III fully automatic+remote control

Feature review

The EXATC series automatic conversion switch is mainly used to exchange 50Hz, rated voltage 400V, rated current 16A to 3200A distribution or electric motor network for one master or mutual replacement system and the load switching of the municipal power and generator sets. At the same time, it can be used for the isolation of non –frequent connection and segmentation circuits.

Products are widely used in fire, hospitals, banks, high –rise buildings, etc., and other important power supply places that are not allowed to power off, power distribution systems and automation systems.



MIC300 series protective measurement and control device

Microcomputer protection is suitable for circuit breaker Ving

The role of microcomputer protection, monitoring and monitoring

Transformer overload, short –circuit and other fault protection, ground fault protection is installed in a low –pressure box, and signals are collected by current transformers or sensors

MIC300 microcomputer protection device

Fixed value serial number	Code	Fixed value name	Set up menu	Fixed value description	Remark
00		Protect the fixed value set	1~3	1	
01	Kv1	One PT change ratio/10	0.01~300.010	If 6KV is set 6	
02	Ki1	One CT change ratio/10	0.01~300.00	If 300/5 is set 6	
03	Ie	Electrical motor rated current	0.00~100A	Electrical motor current/n1 is settled	Only adapt to motor protection
04	Tqd	Electric startup time	0.00~100s	Electric (actual startup time + 2 seconds) is set	
05	Idz0	Fixed value	0.10~100A	Generally set as: (4~14) IE2	Only adapt to motor protection
06	Idz1	Limited time –limited fixed value	0.10~100A	Generally set as: (3~6) IE2	It is recommended to be fixed to: 6IE2
07	Tzd1	Limited time speed delay	0.00~100s	Generally settled as: 0.10 ~ 0.40 s	It is recommended to be fixed to: 4IE2
08	Idz2	Over –current	0.10~100A	Generally settled as: 1.5 ~ 2.5IE2	
09	Tzd2	Over –current delay	0.00~100s	Generally set as: 0.50 s	
10	Idz3	Overload fixed value	0.10~100	Generally set as: 1.2IE2	There is less current over the superior
11	Tzd3	Overload delays	0.00~100s	Generally set as: 10.00 s	
12	I0dz1	Zero –sequencing overcurrent value	0.01~6A	Alarm value (5~8A)/N1	
13	Tl0zd1	Zero –sequential delay,	0.00~100s	Generally settled as: 0.50 ~ 10.00	Jumping (8~10A)/N1
14	Idz4	There is no fixed value of re –closure	0.10~5A	Generally set as: 0.20A	
15	Tzd4	Reconstruction of the gate delay	0.00~100s	Generally settled as: 0.1 ~ 5.00 s	
16	Udz1	Overvoltage	50~200V	Generally set as: 120V	Recommended setting: 0.2 ~ 0.50 s
17	Tuzd1	Overvoltage delay	0.00~100s	Generally set as: 0.50	
18	Udz2	Low voltage fixed value	30~100V	Generally set as: 70V	
19	Tuzd2	Low voltage delay	0.00~100s	Generally set as: 0.50	
20	U0dz1	Bare line insulation monitoring fixed value	0.10~100V	Generally set as: 8V	
21	Tu0zd1	Bare line insulation monitoring delay	0.00~100s	Generally set as: within 10.0 s	
22	Fdz1	Low –frequency reduction fixed value	35 ~60Hz	Generally set as: 45~49Hz	
23	Tfzd1	Low –frequency reduction delay	0.00~100s	Generally set as: 1.00	Generally set as: 48Hz
24	Upt1	PT disconnect fixed value	10~90V	Generally settled as: 20 ~ 30V	
25	Tupt1	PT disconnection delay	0.00~100s	Generally set as: within 10.00 s	
26	Upt2	PT pressure stress	0.01~90V	Generally set as: 30	
27	Tupt2	PT pressure delay	0~100s	Generally set as: within 10.0 s	
28	U0dz2	Unexplicable voltage fixed value	0.10~100V	See: Remarks 1	
29	Tu0zd2	Unexplicable voltage delay	0.00~100s	Generally set as: within 2.00 s	Only adapt to capacitor protection
30	I0dz2	Inleat current fixed value	0.01~6A	See: Remarks 2	Only adapt to capacitor protection
31	Tl0zd2	Inleat current delay	0.00~100s	Generally set as: within 2.00 s	Only adapt to capacitor protection
32	Idz5	Charging protection fixed value	0.10~100A	Generally settled as: 0.02~2 IE2	Only adapt to capacitor protection
33	Tzd5	Charging protection delay	0.00~100s	Generally set as: 0.10~10s	Only adapt to the protection of the mother joint
34	Tzd6	Charging time limit	0.01~30s	Generally set as: within 300ms	Only adapt to the protection of the mother joint
35	Tkzdx	Control loop disconnection delay	0.00~100s	Generally set as: 10~30 s	Only adapt to the protection of the mother joint
					Usually fixed as: 10.00 s



MIC500 series protective measurement and control device

The MIC500 is suitable for the system's non –grounding system, resistance grounding system, and line protection and control devices of direct grounding systems. It can be installed and installed on the spot in the V cabinet.

MIC500 microcomputer protection device

MIC500 protection fixed value

Fixed value serial number	Fixed value name	Set up menu	Fixed value –Fixed reference
01	Fixed value	0.1~100A	
02	Limited time –limited fixed value	0.1~100A	
03	Limited time speed delay	0~100s	
04	Over –current	0.1~100A	
05	Over –current delay	0~100s	
06	Overload fixed value	0.1~100A	
07	Overload delays	0~100s	
08	Zero –order overcurrent I segment fixed value	0.00~100A	The actual settings cannot be over 6A.
09	Zero –order overcurrent I delay	0~100s	
10	Zero –order overcurrent II segment fixed value	0.00~100A	The actual settings cannot be over 6A.
11	Zero –order overcurrent II stage delay	0~100s	
12	Zero –order overcurrent III segmentation value	0.00~100A	The actual settings cannot be over 6A.
13	Zero –order overcurrent III stage delay	0~100s	
14	Zero –sequencing overcurrent value	0.00~100A	The actual settings cannot be over 6A.
15	Zero –sequential delay,	0~100S	
16	Overvoltage	50~600V	
17	Overvoltage delay	0~100s	
18	Low voltage fixed value	30~400V	
19	Low voltage delay	0~100s	
20	Current closed lock low voltage fixed value	0 –100A	
21	Bare line insulation monitoring fixed value	0.1~100V	
22	Bare line insulation monitoring delay	0~100s	
23	Low –frequency reduction fixed value	35~64.99HZ	
24	Low –frequency reduction delay	0~100s	
25	There is no fixed value of re –closure	0.1~5A	
26	Reconstruction of the gate delay	0~100s	
27	PT disconnection delay	0~100s	
28	Control loop disconnection delay	0~100s	

Note: 1) After modifying the parameters, exit the parameter setting the password when the modification interface is input, and then save the parameters



Presub (YB) Pre –installed substation

Model naming

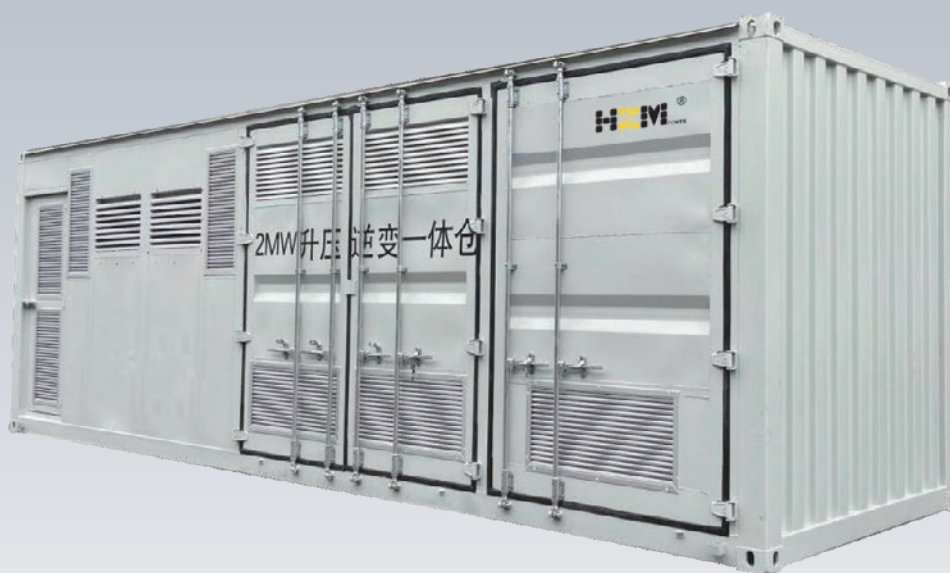
PRESUB(YB)	□	–12/0.4	– □
Intelligent integrated substation	Design Number	Rated voltage (high voltage/low voltage)	Transformer capacity



Presub/u
Buried pre –installed substation

Model naming

PRESUB/U	□	- □ / □	(□)	/ □	- □	/ □
Buried pre –installed substation	Design Number	Rated voltage (high voltage/low voltage)	Load switch, fuse	Bomber	Transformer capacity	Type: H: ring net Z: terminal



New Energy Europe

Overview

Container –type inverter voltage box, European –style all –in –one machine.

The arrangement of the European –style all –in –one machine is similar to that of conventional Europe. The whole machine shell is made of container shell, which contains transformer rooms, high –voltage rooms, communication power cabinets and inverter rooms. Each room is separated by partitions or corrugated boards. The inverter is distributed on both sides of the transformer room with the high and low voltage chamber. The overall structure is the font structure. The inverter is arranged in a mirror, and the inverter is set up between the aisle, and the inverter is available on the side of the inverter. The transformer conventional uses a dry transformer, the supporting vacuum load switch plus melting combination electrical appliances, the vacuum load switch plus the fuse combination electrical and the transformer chamber is connected through the high –voltage cable. The communication power cabinet is similar to the American integrated machine. The transformer heat dissipation method usually uses natural cold or forced wind.

The container box shell is installed with ventilation shutter, fan outlet, and fan. It is used for the internal and external air circulation of the entire box. The inverter is installed indoors with fire emergency lights, fire detectors, explosion –proof lighting and fire extinguishers.

Normally use environmental conditions

Altitude	≤ 3000 meters;
Environmental temperature	–45 °C ~+45 °C ;
environment humidity	The average daily ratio of relative humidity is not more than 60%, and the average monthly average is not more than 90%

No fire, danger of explosion, chemical corrosion and severe vibration



Container box energy storage system

Overview

This system adopts electrical integration design to encapsulate and optimize the equipment outside the battery system to the users as a whole to achieve "plug and play". Through preset and optimized design, reducing customized requirements, reducing hidden dangers caused by local installation differences and management risks.

Normally use environmental conditions

Product specification	20 -foot container	40 -foot container
power	50-500KW	100-1000KW
capacity	Formulated according to customer needs	Formulated according to customer needs
Protection level	IP54	IP54
Operating temperature	-30 °C ~ 55 °C	-30 °C ~ 55 °C
altitude	3000 meters	3000 meters
size	2438 × 2591 × 6058	2438 × 2591 × 12191
cooling system	Industrial Air Conditioning/Forced Refalling Wind	Industrial Air Conditioning/Forced Refalling Wind
Fire Fighting System	Gas fire	Gas fire
Refractory test	2 hours	2 hours
Number of wind loads	6kn/m3	6kn/m3
Seismic rating	Level 10	Level 10
Lacquer surface	Zinc -rich primer+fluorocarbon surface paint $\geq 100 \mu\text{m}$	Zinc -rich primer+fluorocarbon surface paint $\geq 100 \mu\text{m}$