



# LOW VOLTAGE PRODUCT CATALOGUE



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Due to the continuous updating of product technology, all data should be based on the latest confirmation of the company's technical departments.

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HYGL Load switch  
HH15(QSA) Disconnecter fuse group (with fuse)  
HH15A(QA) Disconnecter (the switch is in series inside and the inlet and outlet terminals are horizontal)  
HH15(QP) Disconnecter (switch is in parallel internally, and incoming and outgoing line ends are in staggered order)  
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JKWF Series Reactive Power Automatic Compensation Controller



# Power Distribution

## EXW3 Series Air Circuit Breaker



### Application scope

EXW3 series intelligent air circuit breakers are applicable to distribution networks with AC 50/60Hz, rated working voltage up to 690V and rated current up to 6300A. The core components of the circuit breaker are intelligent controllers with precise selective protection, which can avoid unnecessary power failure and improve the reliability, continuity and security of power supply. It can also be equipped with an open communication interface to realize the "four remotes" function to meet the requirements of the control center and automation system.

#### Features

- Compact design ,saving of space and labor for installation.
  - Eco-friendly Materials,our products are compliant with the RoHS directive and the use of restricted substances is within the line limits stipulated by the said directive.
  - Complete range of accessories.
- Conforming standards:IEC60947-2

### Main technical parameter

Frame size	1600、2000、2500、3200、4000、6300			
Rated current	EXW3-1600: 200A、400A、630A、800A、1000A、1250A、1600A EXW3-2000: 630A、800A、1000A、1250A、1600A、2000A EXW3-2500: 630A、800A、1000A、1250A、1600A、2000A、2500A EXW3-3200: 2000A、2500A、3200 EXW3-4000: 4000A EXW3-6300 : 4000A、5000A、6300A			
Rated voltage	400V/690V			
Rated insulation voltage	1000V			
Poles	3P、4P			
Installation method	Fixed type , Draw-out type			
Model	EXW3-1600	EXW3-2000/2500	EXW3-3200/4000	EYW3-6300
	N	N	N	N
Rated ultimate short-circuit breaking capacity Icu (kA)	50	85	85	120
Rated service short-circuit breaking capacity Ics (kA)	42	65	70	100
Rated short-time withstand current Icw (1s) (kA)	42	65	70	100

## HUW9 Series Air Circuit Breaker



### Application scope

HUW9 series intelligent molded case circuit breakers (hereinafter referred to as circuit breakers) are applicable to AC 0/60Hz, rated working voltage up to 690V, and rated current below 6300A distribution networks, mainly used for, feeder and power generation protection, to prevent the line and power equipment with rated working voltage from being damaged by overloading, undervoltage, overvoltage current voltage imbalance, short circuit and grounding faults. The circuit breaker can also be used directly as overload, undervoltage and short-circuit protection motors and generators. The core components of the circuit breaker adopt intelligent controllers, which have precise selective protection, can avoid unnecessary power outage, and improve the reliability, and safety of power supply. It can also be equipped with open communication interfaces to realize the "four remotes" function to meet the requirements of control centers and automation.

Conforming standards:IEC60947-2.

#### Features

- Complete protection functions.
- Stable and reliable operation;
- Modularization, communication, high breaking

# Power Distribution

## Main technical parameter

Model and frame size Inm	HUW9-1600	HUW9-2000	HUW9-2500	HUW9-3200	HUW9-4000	HUW9-6300
Rated current	200、400、630、800、1000、1250、1600	630、800、1000、1250、1600、2000	2500	2000、2500、3200	4000	4000、5000、6300
Rated voltage	AC400/690					
Poles	3P/4P					
Rated insulation voltage	AC1000					
Rated ultimate short-circuit breaking capacity Icu (kA)	50	85		85		120
Rated service short-circuit breaking capacity Ics (kA)	42	65		70		100
Rated short-time withstand current Icw (1s) (kA)	42	65		70		100

## HUW1 Series Air Circuit Breaker



### Application scope

HUW1 series intelligent air circuit breakers are used for distributing power and protecting circuits in the electrical distribution system is protected from overloading, voltage shortage, short circuit, ground, and other hazardous faults. The circuit breaker has multiple intelligent protection functions available for selection. The protective actions have a high precision for preventing unnecessary power failure, closing power supply much more reliable.

The reasonable operation of the power grid is realized through load monitoring, regional interlocking and other functions. At the same time, it can also be used to measure the current, voltage, power, frequency, electric energy, demand, harmonic and other grid parameters of grid nodes. The circuit breaker can also be directly used for overload, undervoltage and short circuit protection of motors and generators. The circuit breaker can be used for upper incoming line or lower incoming line, which is applicable to various low-voltage power distribution fields such as power stations, factories, intelligent buildings, etc. It can also be used as the core component of the circuit breaker for infrequent starting of motors. With accurate selective protection, it can avoid unnecessary power outages and improve the reliability, continuity and security of power supply. It can also be equipped with an open communication interface to realize the "four remotes" function to meet the requirements of the control center and automation system.

The derivative products HUW1PVA and HUW1F of this series of circuit breakers have passed the ultra-high and low temperature environmental tests and "three prevention" related tests, and are applicable to AC Photovoltaic and wind power generation systems with 50Hz, rated voltage up to 690V and rated current up to 3200A.

Conforming standards:IEC60947-2

### Main technical parameter

Model and frame size Inm	HUW1-1000	HUW1-2000	HUW1-3200	HUW1-4000	HUW1-6300
Rated current	200、400、630、800、1000	630、800、1000、1250、1600、2000	2000、2500、2900、3200	2500、2900、3200、4000	4000、5000、6300
Rated voltage	AC400/690				
Poles	3P/4P				
Rated insulation voltage	AC1000				
Rated ultimate short-circuit breaking capacity Icu (kA)	42	85	85	85	120
Rated service short-circuit breaking capacity Ics (kA)	30	65	70	70	100
Rated short-time withstand current Icw (1s) (kA)	30	65	70	70	100
Installation method	Fixed type , Draw-out type				

## Power Distribution

### HYM1

Molded-Case Circuit Breaker



#### Application scope

HYM1 is an ideal product for onshore and offshore application. The rated insulation voltage of 800V (500V for HYM1-63) is applicable to the distribution network with the AC 50/60Hz, the rated working voltage of 690V (400V for HYM1-63). The circuit breaker is equipped with overload, short circuit and under-voltage protection devices, which can protect lines and power equipment from damage.

#### Features

- Small volume, high breaking, short flashover and vibration resistance.
- It can be installed vertically or horizontally
- Rated current up to 1250A

#### Main technical parameter

Frame Size	63、125、250、400、630、800、1250
Rated current	10A~1250A
Rated voltage	DC250,AC400V,AC690V
Rated insulation voltage	AC800V(HYM1-63 500V)
Poles	2P、3P、4P

#### Main technical parameter

Rated short-circuit breaking capacity class		Rated ultimate short circuit breaking capacity Icu (kA) DC250V/AC400V/AC690V	Rated service short circuit breaking capacity Ics (kA) DC250V/AC400V/AC690V
		63	L 25(AC400V)
	M 50(AC400V)	35(AC400V)	
125	L 15/35/10	10/26/5	
	M 20/50/20	15/35/10	
250	L 20/35/10	15/25/5	
	M 25/50/20	18/35/10	
400	L 50(AC400V)/15(AC690V)	35(AC400V)/8	
	M 65(AC400V)/20	42(AC400V)/10	
630	L 50(AC400V)/15	35(AC400V)/8	
	M 65(AC400V)/20	42(AC400V)/10	
800	M 75(AC400V)/30	50(AC400V)/15	
1250	M 85(AC400V)/25	42(AC400V)/12.5	

## Power Distribution

### HYM1L

Earth Leakage Circuit Breaker



#### Application scope

It is applicable to circuits with AC 50Hz, rated insulation voltage of 800V, rated working voltage of 400V, and rated current of 630A and below. It can provide indirect contact protection for people with fatal danger of electric shock, and also prevent fire hazard caused by ground fault current caused by equipment insulation damage. It can also be used to protect the overload, short circuit and undervoltage of lines, and also can be used for infrequent switching of lines.

#### Main technical parameter

Frame size	125、250、400、630					
Rated current	16A~630A					
Rated voltage	AC230V/AC400V					
Rated insulation voltage	AC800V					
Poles	2P、3P、4P					
Rated residual current I <sub>Δn</sub>	50mA、100mA、200mA、300mA、500mA、1000mA					
Rated short-circuit breaking capacity class	125		250		400	630
	L	M	L	M		
Rated ultimate short-circuit breaking capacity Icu (kA) AC230V/AC400V	35/35	50/50	35/35	50/50	50(AC400)	50(AC400)
Rated service short-circuit breaking capacity Ics (kA) AC230V/AC400V	22/22	35/35	25/25	35/35	35(AC400)	35(AC400)

### HYM3LCK

Earth Leakage Circuit Breaker



#### Application scope

HYM3LCK series residual current-acting circuit breaker is a new product developed by our company according to market demand, which is the first choice to match the operation of national intelligent power grid.

This series of products adopts LCD Chinese display, with many functions and intuitive. The circuit breaker part adopts the high breaking HUM8 circuit breaker, with high breaking capacity and accurate breaking time, integrated distribution comprehensive protection, and small size, easy to install and use, adjustable action value, easy to operate, can adapt to users around the It can be adapted to various users and environments, and set as required. In addition, the product has high-precision metering and measuring function, Beidou positioning function, temperature protection function and HPLC carrier, wireless Bluetooth, RS485 and other communication functions, but also has a station area topology identification function.

Products comply with the standards: GB/T 32902, DL/T 20...

Communication statute of residual current protector.

Passed the test of China Electric Power Research Institute of Low-Voltage Electric Appliance Research Institute on communication standard.

Passed the communication conformance test by the National Grid Communication Test Authorization Unit.

#### Main technical parameter

Frame size	160、250、400、630、800				
Rated current	160、250、400、630、800				
Setting current range	64~800				
Rated voltage	AC400				
Rated insulation voltage	AC1000				
Poles	3P+N、4P				
Rated short-circuit breaking capacity class	160	250	400	630	800
Rated ultimate short-circuit breaking capacity Icu (kA)	50/36(L type)	50/36(L type)	70/50(L type)	70/50(L type)	70/50(L type)
Rated service short-circuit breaking capacity Ics (kA)	36/20(L type)	36/20(L type)	70/36(L type)	70/36(L type)	70/36(L type)

# Power Distribution

## HUM9

Molded-Case Circuit Breaker



### Application scope

HUM9 series molded case circuit breakers is the solution developed by EATON&HUYU for the all round integration of a company's activities, where each product is seen as part of a complete solution.

The circuit breaker is applicable to the power system with AC 50/60Hz rated voltage up to 690V and rated current up to 800A. It is used to distribute electric energy and protect the power system from overload, short circuit, undervoltage and other faults. It can also be used to control infrequent motor operation.

The whole series can be equipped with a unique "overload alarm without tripping" function to ensure overload continuity.

#### Features

- Zero Flashover distance
- Compatible and differentiated design
- Standardized dimension (Depth, Cutout) when the panel is made
- Various installable accessories

Conforming standards: IEC60947-2.

### Main technical parameter

Frame size	63、100、125、250、400、630、800
Rated current	10A ~ 800A
Rated voltage	AC400V/AC690V
Rated insulation voltage	AC800 ( 63AF ) 、 AC1000
Poles	3P、4P

Rated short-circuit breaking capacity class	Rated ultimate short circuit breaking capacity Icu (kA) AC400V/AC690V	Rated service short circuit breaking capacity Ics (kA) AC400V/AC690V	
		S	H
63	S	35(AC400)	
	H	35(AC400)	
100	S	50/5	35/3
	H	50/10	65/5
	R	125/10	125/5
125	S	50/5	35/3
	H	50/10	65/5
	R	125/10	125/5
250	S	55/5	55/5
	H	85/10	85/5
	R	125/10	125/5
400	S	75/10	75/10
	H	100/15	100/10
	R	125/35	125/35
630	S	75/15	75/15
	H	100/20	100/15
	R	125/35	125/35
800	S	75/15	75/15
	H	100/20	100/15
	R	125/35	125/35

# Power Distribution

## HUM9L

Earth Leakage Circuit Breaker



### Application scope

HUM9L series Earth leakage circuit breaker is to provide indirect contact protection for people with fatal danger of electric shock, and also to prevent electrical fire caused by long-term grounding fault current that cannot be detected by the over-current protection device.

The residual action current rating of the circuit breaker can be adjusted, and the action time of the leakage protection can also be adjusted. Therefore, it can realize the selective protection of leakage in the power distribution system.

When the rated residual action current is set to 30mA, the circuit breaker can also be used as a protection device for direct contact when the relevant protection device fails.

#### Features

- Breaking capacity up to 75kA Ics=Icu
- Manual, Rotary or Motorised versions
- Rated current up to 630A
- ROHS compliant

Conforming standards: IEC60947-2, IEC 755

### Main technical parameter

Frame size	100(125)、250、400、630			
Rated current	10A ~ 630A			
Rated voltage	AC400V 50Hz			
Rated insulation voltage	AC800V 50Hz			
Poles	3P、4P			
Rated residual current I <sub>Δn</sub>	100、300、500Adjustable, (500、800、100Adjustable)			
Rated short-circuit breaking capacity class	125	250	400	630
Rated ultimate short-circuit breaking capacity Icu (kA)	55	55	75	75
Rated service short-circuit breaking capacity Ics (kA)	55	55	75	75

## HUM9E

Electronic Molded-Case Circuit Breaker



### Application scope

HUM9E series electronic Molded Case Circuit Breakers is used to distribute electric energy and protect lines and power equipment from overload, short circuit, undervoltage and other faults, and also to control infrequent operation of electric motor.

The intelligent overcurrent release of the circuit breaker is controlled by a microprocessor and has three section protection features, namely, overload inverse time delay protection, short circuit delay protection and short circuit instantaneous protection. Due to the adjustable artificial short circuit short time delay protection feature, the use category of the circuit breaker is Category B. Therefore, this series of circuit breakers can definitely realize selective protection with another short-circuit protection device connected in series on the load side. The three section overcurrent protection characteristics of the circuit breaker can be easily set, which can meet the requirements of different loads on the protection characteristics to achieve the best match. Therefore, the circuit breaker is an indispensable component in the intelligent power distribution system with the computer as the core.

Conforming standards: IEC 60947-2.

### Main technical parameter

Frame size	125、160、250、400、630、800、1250										
Rated current	50A ~ 1250A										
Rated voltage	AC400V/AC690V										
Rated insulation voltage	AC1000										
Poles	3P、4P										
Rated short-circuit breaking capacity class	125		160/250		400		630		800		1250
	S	H	S	H	S	H	S	H	S	H	
Rated ultimate short-circuit breaking capacity Icu (kA) AC400V/AC690V	55/5	85/20	55/5	85/20	75/10	100/30	75/15	100/30	75/15	100/30	85/25
Rated service short-circuit breaking capacity Ics (kA) AC400V/AC690V	55/5	55/10	55/5	55/10	75/10	75/20	75/15	75/20	75/15	75/20	43/13

## Power Distribution

### HUM8

Series Molded-Case Circuit Breaker/MCCB



#### Application scope

HUM8 series moulded case circuit breaker is applied in the network circuit of AC 50/60Hz, rated voltage to AC 690V power system, used to distribute electric energy and power system protection against overload, short circuit, undervoltage fault, also can be used to control the infrequent operation of electric machines. The characteristics of electronic release and intelligent release are accurate and convenient. Intelligent release has serial communication interface, which can meet the "four remote" requirements of communication networking. The full series can be equipped with unique "overload alarm without tripping" function, to ensure continuity of power supply, to meet the requirements of article 6.3.6 under GB 50054.

#### Features

- Rated current up to 1250A
- Breaking capacity up to 200kA
- Eco-friendly Materials, compliant with the RoHS directive
- CE,CB approved.

Conforming standards: IEC 60947-2

#### Main technical parameter

Frame size	63, 100(125), 250, 400, 630, 800
Rated current	10A ~ 800A
Rated voltage	AC230V, AC400V, AC690V
Rated insulation voltage	AC800V ( 63AF ) , AC1000V
Poles	2P, 3P, 4P

### HUM8

Series Molded-Case Circuit Breaker/MCCB



#### Main technical parameter

Rated short-circuit breaking capacity class		Rated ultimate short circuit breaking capacity Icu (kA) 230V/AC400V/AC690V	Rated service short circuit breaking capacity Ics (kA) 230V/AC400V/AC690V
63	S	50/30(AC400V)	38/22(AC400V)
	C	50/30(AC400V)	25/15(AC400V)
100 (125)	S	100/50/5	50/35/3
	H	125/85/10	125/65/5
	U	200/125/10	200/125/5
250	C	50/30(AC400V)	25/15(AC400V)
	S	100/50/5	50/35/3
	H	125/85/10	125/65/5
400	U	200/125/10	200/125/5
	C	85/45/10	85/45/10
	S	100/70/10	100/70/10
630	H	150/100/15	100/100/10
	U	200/125/35	200/125/35
	C	85/45/10	85/45/10
800	S	100/70/15	100/70/15
	H	150/100/20	100/100/15
	U	200/125/35	200/125/35
	C	85/45/10	85/45/10

## Power Distribution

### HUM8L

Series Earth-Leakage Circuit Breaker/ELCB



#### Application scope

HUM8L series earth leakage circuit breaker (hereinafter referred to as the circuit breaker) power system for AC 50/60Hz, rated voltage to 400V, rated current up to 630A, for the electricity distribution and power system protection against overload and short-circuit fault harm, also can be used to control the infrequent operation of motors. The leakage current (residual current) protection function of the circuit breaker is to provide indirect contact protection for fatal electrocution, and to prevent electrical fires caused by long-existing grounding fault current which are not detected by over-current protection devices.

The rated value of the residual operation current is adjustable, and the leakage protection operation time can also be adjusted. Therefore, the selective protection of leakage can be realized in the distribution system. When the rated residual operation current is set to 30mA, in the case of the failure of the protective device, the circuit breaker can also be used as a device for direct contact with the protective effect.

According to the classification of DC component: AC type, to ensure the CBR of the release for the residual sinusoidal current, whether suddenly or slowly rising without DC component. A type, with a specified residual pulsating DC residual sinusoidal AC current, ensures the CBR of the release, whether it is suddenly exerted or slowly rising.

Conforming standards: IEC 60947-2, IEC 755.

#### Main technical parameter

Frame size	100(125), 250, 400, 630											
Rated current	10A ~ 630A											
Rated voltage	AC400V 50Hz											
Rated insulation voltage	AC800											
Poles	3P, 4P											
Rated short-circuit breaking capacity class	100(125)			250			400			630		
	S	H	U	S	H	U	S	H	U	S	H	U
Rated ultimate short-circuit breaking capacity Icu (kA)	50	85	125	50	85	125	70	100	125	70	100	125
Rated service short-circuit breaking capacity Ics (kA)	35	65	125	35	65	125	70	100	125	70	100	125

## Power Distribution

### HUM8D

Series Intelligent Molded-Case Circuit Breaker



#### Application scope

HUM8D series intelligent molded case circuit breaker has advanced design, reliable performance, high technical index; beautiful appearance, compact size, the use of microelectronics technology, with intelligent over-current protection function.

The circuit breaker is suitable for AC 50/60Hz, rated voltage up to 690V, rated current up to 1250A in the power system, used to distribute electrical energy and protect the line and power supply equipment from overload, short circuit, under voltage and other faults, also can be used to control the infrequent operation of the motor.

The circuit breaker's intelligent over-current release is microprocessor-controlled and has three protection features, 'i.e., overload inverse time long delay protection, short circuit delay protection and short circuit instantaneous protection. Due to the adjustable artificial short-circuit short-delay protection feature, this circuit breaker is used in category B. Therefore, this series of circuit breakers is clearly able to achieve selective protection with another short-circuit protection device connected in series on the load side. The three over-current protection characteristics of the circuit breaker can be easily adjusted to suit the requirements of different loads for the best matching of protection characteristics. The circuit breaker has operating current indication, overload pre-warning indication, and striker power and self-diagnostic indication.

The circuit breaker with H-type intelligent release is equipped with RS485 serial interface, which can set the protection characteristic parameters by programmer and meet the requirements of communication network.

Conforming standards: IEC60947-1 "Low-voltage switchgear and controlgear Part 1: General Provisions". IEC60947-2 "Low-voltage switchgear and controlgear Part 2: Circuit breakers".

#### Main technical parameter

Frame size	100, 160, 250, 400, 630, 800, 1250
Rated current	100 ~ 1250
Setting current range	40 ~ 1250
Rated voltage	AC230V, AC400V, AC690V
Rated insulation voltage	AC800V ( 100AF ) , AC1000V
Poles	3P, 4P

#### Main technical parameter

Rated short-circuit breaking capacity class	Rated ultimate short circuit breaking capacity Icu (kA) 230V/AC400V/AC690V	Rated service short circuit breaking capacity Ics (kA) 230V/AC400V/AC690V
100		100/55/5
	H	125/85/20
160		100/50/5
	H	125/70/10
250		200/125/10
	U	200/125/5
400		100/50/5
	H	125/70/10
630		200/125/10
	U	200/125/5
800		100/70/10
	H	150/100/15
1250		100/100/10
	U	200/125/35

## Power Distribution

### EXM3

Molded-Case Circuit Breakers



#### Application scope

The EXM3 moulded case circuit breakers (hereafter as the MCCBs) are suitable for use in electric systems of AC 50Hz/60Hz, with the rated insulation voltage of up to 1000V (800V for 125A and below frames) and rated current up to 800A, to distribute electrical energy, protect circuits and power equipment from hazards due to overload, short circuit, under-voltage, and other faults, and control infrequent motor operations.

The EXM3 MCCBs offer Type C (basic), Type S (standard), and Type H (high breaking) based on its rated ultimate short-circuit breaking capacity, and feature small size, high breaking capacity, and short arcing distance.

Conforming standards: IEC60947-2

#### Main technical parameter

Frame size	63, 125, 160, 250, 400, 630, 800
Rated current	10A ~ 800A
Rated voltage	AC240V, AC400/415V, AC500V, AC690V
Rated insulation voltage	AC800 (63AF, 125AF) , AC1000
Poles	1P, 2P, 3P, 4P

#### Main technical parameter

Rated short-circuit breaking capacity class	Rated ultimate short circuit breaking capacity Icu (kA) 240V/(400V/415V)/500V/690V	Rated service short circuit breaking capacity Ics (kA) 240V/(400V/415V)/500V/690V
63	C	30/20/-/-
	S	40/36/-/-
	H	75/50/-/-
125	C	30/20/-/-
	S	40/36/-/-
	H	75/50/-/-
160	C	40/20/-/8
	S	50/36/-/8
	H	75/50/30/10
250	C	40/20/-/8
	S	50/36/-/8
	H	75/50/30/10
400	C	50/40/-/10
	S	75/50/-/10
	H	100/70/36/15
630	C	50/40/-/10
	S	75/50/-/10
800	C	50/30/-/10
	S	75/50/36/10

## Power Distribution

### EXM3L

Series Earth-Leakage Circuit Breaker/ELCB



#### Application scope

The EXM3L series earth leakage circuit breaker (hereafter as the ELCB) are developed with global leading technology, offering reliable performance, powerful technical features, easy maintenance, sleek design, and small size. The RCCBs are suitable for use in electrical systems of AC 50Hz/60Hz, with the rated voltage of up to 415V and rated current of up to 800A, to distribute electrical energy, prevent the electrical systems from hazards due to overload, short-circuit and other faults, and control infrequent motor operations. The ELCB offer leakage (residual current) protection to provide indirect contact protection against fatal electric shock, and prevent electrical fires caused by longstanding ground fault currents that cannot be detected by over-current protectors. The RCCBs can also be used to provide direct contact protection when the concerned protector fails, with the rated residual operating current set to 30mA (for non-delay type). Be noted that the ELCB does not offer protection against electric shock due to simultaneous contact of two load conductors (two phase wires, or any phase wire and neutral wire). Both the residual operating current ratings and protection actuation time are adjustable, achieving selectivity protection in the event of residual currents. Two DC component types are available, including Type AC - CBR that ensures tripping caused by residual sinusoidal current with no DC component, whether it is suddenly applied or slowly rising, and Type A - CBR that ensures tripping caused by residual sinusoidal current and residual pulsating DC (with/without specified superimposed DC component), whether it is suddenly applied or slowly rising;

Conforming standards: IEC60947-2

#### Main technical parameter

Frame size	125、160、250、400、630、800
Rated current	16A ~ 800A
Rated voltage	AC415V
Rated insulation voltage	AC1000V
Poles	3P、4P
Rated residual current I $\Delta$ n	Adjustable 30mA ( Non-delay type only) /50mA/100mA/200mA/300mA/400mA/500mA/600mA/800mA/1000mA

#### Main technical parameter

Rated short-circuit breaking capacity class	Rated ultimate short circuit breaking capacity Icu (kA) 415V	Rated service short circuit breaking capacity Ics (kA) 415V	
125	C	20	10
	S	36	25
	H	50	36
160	C	20	10
	S	36	25
	H	50	36
250	C	20	15
	S	36	25
	H	50	36
400	C	40	30
	S	50	36
	H	70	50
630	C	40	30
	S	50	36
	H	70	50
800	C	40	30
	S	50	36
	H	70	50

## Power Distribution

### EXM3E

Electronic Molded-Case Circuit Breaker



#### Application scope

The EXM3E electronic-type molded case circuit breakers (hereafter as the MCCBs) are developed with global leading technology, featuring advanced design, offering reliable performance, powerful technical features, easy maintenance, sleek design, and small size. The EXM3E MCCBs are suitable for use in electric systems of AC 50Hz/60Hz, with the rated insulation voltage of up to 1,000V and rated current of up to 1250A, to distribute electrical energy, protect circuits and power equipment from hazards due to overload, short-circuit, under-voltage, and other faults, and control infrequent motor operations. The EXM3E MCCBs offer Type C (basic), Type S (standard), and Type H (high breaking) based on the rated ultimate short-circuit breaking capacity.

Conforming standards: IEC60947-2

#### Main technical parameter

Frame size	125、160、250、400、630、800、1000、1250
Rated current	125A ~ 1250A
Rated voltage	AC220/230/240/380/400/415/660/690V
Rated insulation voltage	AC1000V
Poles	3P、4P

#### Main technical parameter

Rated short-circuit breaking capacity class	Rated ultimate short circuit breaking capacity Icu (kA) 240V/(400V/415V)/500V/690V	Rated service short circuit breaking capacity Ics (kA) 240V/(400V/415V)/500V/690V	
125	C	40/20/-/8	20/10/-/4
	S	50/36/-/8	30/25/-/4
	H	75/50/30/10	50/36/30/5
160	C	40/20/-/8	20/10/-/4
	S	50/36/-/8	30/25/-/4
	H	75/50/30/10	50/36/30/5
250	C	40/20/-/8	30/15/-/5
	S	50/36/-/8	30/25/-/5
	H	75/50/30/10	50/36/30/5
400	C	50/40/-/10	50/30/-/10
	S	75/50/-/10	50/36/-/10
	H	100/70/36/15	75/50/36/10
630	C	50/40/-/10	50/30/-/10
	S	75/50/-/10	50/36/-/10
	H	100/70/36/15	75/50/36/10
800	S	75/50/-/20	50/36/-/10
	H	100/70/-/30	75/50/-/20
1000	S	75/50/-/20	50/36/-/10
	H	100/70/-/30	75/50/-/20
1250	S	75/50/-/20	50/36/-/10
	H	100/70/-/30	75/50/-/20

## Power Distribution

### EXT3-63

CB Class Automatic Transfer Switching Equipment



#### Application scope

EXT3-63 transfer switch is applicable to dual power supply system with AC 50Hz, rated working voltage of 400V and below, and rated current of 10A to 63A

The two power supplies of the power supply system: the common power supply (N) and the standby power supply (R) are detected at the same time. When the power supply has undervoltage and phase failure, it will automatically switch from the abnormal power supply to the normal power supply (or manual switching), improving the continuity, safety and reliability of the power supply system in the use place.

Conforming standards: IEC 60947-6-1

#### Main technical parameter

Frame Size	63
Rated operational current	10A~63A
Rated voltage	AC400V (3P、4P) AC230V (2P)
Rated impulse withstand voltage Uimp	4kV
Poles	2P、3P、4P
Installation mode	Vertical fixed type
Electrical class	CCC、CQC、CE
Utilization category	AC-32B

### EXT3

Automatic Transfer Switching Equipment



#### Application scope

EXT3 dual power automatic conversion device is applicable to dual power supply systems with AC 50/60Hz, rated single-phase 400V (level 3 and 4) and below, and rated current of 10A to 630A. It detects the two power supplies of the power supply system: common power supply (N) and standby power supply (R) at the same time, and automatically switches from abnormal power supply to normal power supply (or manual switching) in case of power failure such as undervoltage and phase failure, Improve the continuity, safety and reliability of the power supply system at the place of use.

Conforming standards: IEC 60947-6-1

#### Main technical parameter

Frame Size	125、160、250、400、630
Rated operational current	10A~630A
Rated voltage	AC400V
Rated impulse withstand voltage Uimp	8kV、12kV
Poles	3P、4P
Installation mode	Vertical fixed type
Electrical class	CCC、CQC
Utilization category	AC-33IB

## Power Distribution

### EXT3P

CB Class Automatic Transfer Switching Equipment



#### Application scope

EXT3P change-over switch is applicable to the dual power supply system with AC 50/60Hz, rated working voltage of 230V (level 2), 400V (level 3, 4) and below, and rated current of 16A to 250A. It detects the two power supplies of the power supply system: common power supply (N) and standby power supply (R) at the same time, and automatically switches from the abnormal power supply to the normal power supply (it can also be set to manual switching) in case of power supply failure of undervoltage and phase failure, Improve the continuity, safety and reliability of the power supply system at the place of use.

Conforming standards: IEC 60947-6-1

#### Main technical parameter

Frame Size	125、250
Rated operational current	16A~250A
Rated voltage	AC 400V
Rated impulse withstand voltage Uimp	8kV
Poles	2P、3P、4P
Installation mode	Integrated
Electrical class	CCC、CQC、CE
Utilization category	AC-33B

### HR6

Fuse type Knife Switch



#### Application scope

It is mainly used in power distribution circuits and motor circuits with high short circuit current with rated voltage of 400V and rated working current of 630A as power switch, disconnecter, emergency switch and circuit protection, but generally not used to directly switch a single motor.

Conforming standards: IEC 60947-3

#### Main technical parameter

Model	HR6-160、HR6-250、HR6-400、HR6-630、HR6-800
Rated operational current	HR6-160: 160A HR6-250: 250A HR6-400: 400A HR6-630: 200A、250A、315A、400A、500A、630A HR6-800: 200A、250A、315A、400A、500A、630A、800A HR6-1000: 800A、1000A
Rated voltage	AC400V/690V
Rated insulation voltage	AC1140V
Poles	3P

## Power Distribution

### HR17

Fuse type Knife Switch



#### Application scope

Hr17 series fuse Knife switch can be operated with load, and is applicable to rated current of 40A~630A, including 1 group, 2 groups and 3 groups. It can be mounted on the bus or fixed plate; The upper and lower input and output structures are provided, with knife edge lead-in and arc extinguishing devices; The switch cover is irregularly provided with closed detection holes, and built-in signal switches and detection switches. It can be equipped with fuse monitor or used as knife switch.

Conforming standards: IEC 60947-3

#### Main technical parameter

Conventional thermal current	40A: 10A, 16A, 20A, 25A, 32A, 40A; 63A: 16A, 20A, 25A, 32A, 40A, 50A, 63A; 160A: 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A, 160A; 250A: 80A, 100A, 125A, 160A, 200A, 250A; 400A: 125A, 160A, 200A, 250A, 315A, 400A; 630A: 200A, 250A, 315A, 400A, 500A, 630A; 800A: 800A
Rated voltage	AC400V
Poles	3P

### HYGL

Load switch



#### Application scope

HYGL series disconnectors are suitable for enterprise power distribution settings with AC 50Hz, rated voltage up to 690V, DC voltage up to 440V, and agreed heating current up to 3200A. They are used for frequent connection and disconnection of circuits and electrical isolation (above 1000A is only used for electrical isolation). They are widely used in power distribution systems and automation systems in buildings, electric power, petrochemical and other industries.

HYGL/C side operated disconnector adds a side operated mechanism on the basis of HYGL front central operated disconnector, which is suitable for making and breaking circuit of side operation and electrical isolation.

HYGL/Z double throw transfer disconnector is composed of two HYGL disconnectors stacked up and down or assembled side by side from left to right. It is applicable to the switching of two-way power supply or the switching and safety isolation of two load equipment.

#### Main technical parameter

Conventional thermal current	100A, 160A, 250A, 400A, 630A, 1000A, 1250A, 1600A, 2500A, 3200A
Rated insulation voltage	1000V, 1140V
Rated impulse withstand voltage	12kv
Rated operational current	HYGL100: 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A HYGL-160: 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A, 160A HYGL-250: 80A, 100A, 125A, 160A, 200A, 250A HYGL-400: 125A, 160A, 200A, 250A, 315A, 400A HYGL-630: 200A, 250A, 315A, 400A, 500A, 630A HYGL-1000: 800A, 1000A HYGL-1250: 1000A, 1250A HYGL-1600: 1000A, 1250A, 1600A HYGL-2500: 2000A, 2500A HYGL-3200: 2500A, 3200A
Rated operational voltage	AC400V
Poles	3P, 4P

## Power Distribution

### HH15(QSA)

Disconnector fuse group (with fuse)



#### Application scope

HH15 (QSA) series disconnectors fuse group disconnectors (hereinafter referred to as switches) are mainly used in distribution circuits and motor circuits with high short circuit current as main switches or master switches for infrequent manual operation. It is especially suitable for installation in advanced drawer type low-voltage complete sets.

Conforming standards: IEC 60947-3

#### Main technical parameter

Conventional thermal current I <sub>th</sub>	63A	125A	160A	250A	400A	630A	800A	1000A	1250A
Rated current I <sub>e</sub>	63A	125A	160A	250A	400A	630A	800A	1000A	1250A
Use category	AC-23B						AC-22B		
Rated limiting short-circuit current I <sub>q</sub>	50kA								
Mechanical (cycle)	3400	2800	2800	2800	1600	1600	1000	600	600
Electrical (cycle)	600	400	400	400	400	400	200	200	200
Selection of fuse link	RT16-00			RT16-1	RT16-2	RT16-3		RT16-3B	RT16-4
Torque (N·m)	7.5		16			30		35	
Weight (kg without handle)	1.6	1.7	4.1	4.5	4.7	14.0	14.5	27.0	29.0

### HH15A(QA)

Disconnector (the switch is in series inside and the inlet and outlet terminals are horizontal)



#### Application scope

HH15 (QA) series disconnectors (hereinafter referred to as switches) are mainly used in power distribution circuits and motor circuits with high short circuit current as main switches or master switches for infrequent manual operation. It is especially suitable for installation in advanced drawer type low-voltage complete sets.

Conforming standards: IEC 60947-3

#### Main technical parameter

Conventional thermal current I <sub>th</sub>	125A	200A	400A	630A	1000A
Rated current I <sub>e</sub>	125A	200A	400A	630A	1000A
Use category	AC-23B				
Rated limiting short-circuit current I <sub>q</sub>	8kA		30kA		50kA
Mechanical (cycle)	4kA		20kA		30kA
Electrical (cycle)	2800		1600		1000
Selection of fuse link	400		400		200
Torque (N·m)	7.5		16		30
Weight (kg without handle)	1.5	1.6	4.1	4.3	11.7

## Power Distribution

### HH15(QP)

Disconnecter (switch is in parallel internally, and incoming and outgoing line ends are in staggered order)



#### Application scope

HH15 (QP) series disconnectors (hereinafter referred to as switches) are mainly used in power distribution circuits and motor circuits with high short-circuit current as main switches or master switches for infrequent manual operation. It is especially suitable for installation in advanced drawer type low-voltage complete sets.

Conforming standards: IEC 60947-3

#### Main technical parameter

Conventional thermal current I <sub>th</sub>	250A	630A	1000A	1250A	1600A	2500A	3150A
Rated current I <sub>e</sub>	250A	630A	1000A	1250A	1600A	2500A	3150A
Use category	AC-23B						AC-20B
Rated limiting short-circuit current I <sub>q</sub>	10kA	30kA		32kA		50kA	
Mechanical (cycle)	2800	1600	1000	1000	1000	600	600
Electrical (cycle)	400	400	200	200	200	/	/
Torque (N·m)	7.5	16		30		70	
Weight (kg without handle)	1.9	5.0	5.4	14.0	14.5	49.0	52.5

### RT16(NT)

Enclosed Tube Type Knife blade Fuse



#### Application scope

RT16 series low voltage fuses has the advantages of small size, light weight, low power consumption and high breaking capacity, and is used in AC power distribution device with rated frequency 50Hz, rated voltage up to AC690V and below, and with rated current up to 1250A for overload and short-circuit protection. Also, the product with an "impactor" function is selected and used in the electrical devices such as power distribution device for signal output in case of product fusing.

Conforming standards: IEC 60947-2.

#### Main technical parameter

Fuse size	0、00C、00、1、2、3、4
Rated current I <sub>n</sub>	Fuse size0: 2A、4A、6A、8A、10A、12A、16A、20A、25A、32A、40A、50A、63A、80A、100A Fuse size00: 2A、4A、6A、8A、10A、12A、16A、20A、25A、32A、40A、50A、63A、80A、100A Fuse size00C: 2A、4A、6A、8A、10A、12A、16A、20A、25A、32A、40A、50A、63A、80A、100A Fuse size1: 80A、100A、125A、160A、200A; Fuse size2: 125A、160A、200A、250A、300A、315A、400A; Fuse size3: 315A、400A、500A、630A Fuse size4: 800A、1000A
Rated voltage	660V
Frequency	50Hz

## Power Distribution

### RT18

Enclosed Tube Type Fuse



#### Application scope

It is suitable for overload and short circuit protection in power distribution devices with rated voltage of 220V/380V and rated current of 63A. Neon lamp and resistance

Fuse link fusing signal device (code "X") constituting isolator.

Conforming standards: IEC 60947-2

#### Main technical parameter

Model	RT18-32、RT18-32X、RT18-63、RT18-63X
Rated current	RT18-32: 2A、4A、6A、8A、10A、16A、20A、25A、32A; RT18-32X: 2A、4A、6A、8A、10A、16A、20A、25A、32A; RT18-63: 2A、4A、6A、8A、10A、16A、20A、25A、32A、40A、50A、63A; RT18-63X: 2A、4A、6A、8A、10A、16A、20A、25A、32A、40A、50A、63A
Rated voltage	380V/660V
Frequency	50Hz

### RS0

Enclosed Tube Type Fuse



#### Application scope

It is applicable to the short circuit or overload protection of silicon rectifier components and their complete sets in AC circuits with rated voltage not exceeding 750V and frequency 50Hz.

Conforming standards: IEC 60947-1 / IEC 60947-4.

#### Main technical parameter

Model	RS0-100、RS0-200、RS0-350、RS0-480
Rated current	RS0-100: 80A、100A RS0-200: 150A、200A RS0-350: 200A、250A、320A、350A RS0-480: 480A
Frequency	50Hz

## Terminal distribution

### EXB3-40

Miniature Circuit Breaker



#### Feature

- Compact in structure and has two poles in the width of 18mm
- Thermal-electromagnetic tripping mechanism
- DIN rail mounting
- CB approved

Conforming standards:EN/IEC60898-1

#### Main technical parameter

Product model	EXB3-40
No. of poles	1P+N
Rated current	6A, 10A, 16A, 20A, 25A, 32A, 40A
Rated voltage	AC230V
Rated frequency	50Hz/60Hz
Rated impulse withstand voltage	4kV
Rated short-circuit breaking capacity	4500A
Rated service short-circuit breaking capacity	4500A
Instantaneous tripping type	C, D
Mechanical life(cycles)	20000
Electrical life(cycles)	8000

### EXB3-63

Miniature Circuit Breaker



#### Feature

- Cost effective
- For all applications up to 63 A
- Thermal magnetic protection
- High quality, subtle, and precise
- CB, RoHS, KEMA, CE approved

Conforming standards:EN/IEC60898-1

#### Main technical parameter

Product model	EXB3-63
No. of poles	1P, 1P+N, 2P, 3P, 3P+N, 4P
Rated current	1A, 2A, 3A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
Rated voltage	AC230V/400V(1P), AC230V(1P+N) AC400V(2P, 3P, 3P+N, 4P)
Rated frequency	50Hz/60Hz
Rated impulse withstand voltage	6kV
Rated short-circuit breaking capacity	6000A
Rated service short-circuit breaking capacity	6000A
Instantaneous tripping type	B, C, D
Mechanical life(cycles)	20000
Electrical life(cycles)	8000

## Terminal distribution

### EXB3-125

High breaking Miniature Circuit Breaker



#### Features

- Rated Current up to 125A
- Switchgear for industrial and advanced commercial applications
- CB, CE, TUV approve

Conforming standards:EN/IEC60947-2

#### Main technical parameter

Product model	EXB3-125
No. of poles	1P, 1P+N, 2P, 3P, 3P+N, 4P
Rated current	63A, 80A, 100A, 125A
Rated voltage	AC230V (1P, 1P+N) , AC400V (2P, 3P, 3P+N, 4P)
Rated frequency	50Hz/60Hz
Rated impulse withstand voltage	4kV
Rated short-circuit breaking capacity	6000A
Rated service short-circuit breaking capacity	6000A
Instantaneous tripping type	C, D
Mechanical life(cycles)	10000
Electrical life(cycles)	6000 (In≤100A) , 4000 ( In > 100A )

### EXB3LY-63

Residual Current Circuit Breaker with Overcurrent Protection



#### Feature

- Cost effective
- For all applications up to 63 A
- Thermal magnetic protection
- High quality, subtle, and precise

Conforming standards:EN/IEC61009-1

#### Main technical parameter

Product model	EXB3LY-63
No. of poles	See Table 1
Rated current	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
Rated voltage	AC230V
Rated operating frequency	50Hz/60Hz
Rated impulse withstand voltage	4kV
Breaking capacity	See Table 1
Rated residual operated current	30mA, 50mA(only 50mA for delay type)
Instantaneous tripping type	See Table 1
Mechanical life(cycles)	20000
Electrical life(cycles)	10000
Residual current type	See Table 1

Table 1

Product model	No. of Poles	Breaking capacity Icn	Breaking capacity Ics	Instantaneous tripping type	Residual current type	Remark
EXB3LY-63	1P+N, N-pole with break point	6000A	6000A	B, C, D	Type AC/A	With isolation function

## Terminal distribution

### EXB3LE-63

Residual Current Circuit Breaker with Overcurrent Protection



#### Feature

- Cost effective
- For all applications up to 63 A
- Thermal magnetic protection
- High quality, subtle, and precise
- CB approved

Conforming standards:EN/IEC61009-1

#### Main technical parameter

Product model	EXB3LE-63
No. of poles	See Table 1
Rated current	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
Rated voltage	AC220V/230V/240V (1P+N, 2P), AC380V/400V/415V (3P, 3P+N, 4P)
Rated operating frequency	50Hz/60Hz
Rated impulse withstand voltage	4kV
Breaking capacity	See Table 1
Rated residual operated current	30mA, 50mA, 75mA, 100mA, 300mA
Instantaneous tripping type	See Table 1
Over-voltage protection range	See Table 1
Mechanical life(cycles)	20000
Electrical life(cycles)	8000
Residual current type	See Table 1

Table 1

Product model	No. of poles	Breaking capacity I <sub>cn</sub>	Service breaking capacity I <sub>cs</sub>	Over-voltage protection range	Instantaneous tripping type	Residual current type
EXB3LE-63	1P+N, 2P, 3P, 3P+N, 4P	6000A	6000A	-	B, C, D	Type AC/A

### EXB3LE-125

Residual Current Circuit Breaker with Overcurrent Protection



#### Features

- Rated Current up to 125A
- Switchgear for industrial and advanced commercial applications

Conforming standards:IEC 60947-2

#### Main technical parameter

Product model	EXB3LE-125
No. of poles	1P+N, 2P, 3P, 3P+N, 4P
Rated current	63A, 80A, 100A, 125A
Rated voltage	AC230V (1P+N, 2P), AC400V (3P, 3P+N, 4P)
Rated operating frequency	50Hz/60Hz
Rated impulse withstand voltage	4kV
Rated short-circuit breaking capacity	4500A
Rated service short-circuit breaking capacity	4500A
Rated residual current	30mA, 50mA, 75mA, 100mA, 150mA, 200mA, 300mA
Instantaneous tripping type	C, D
Mechanical life(cycles)	10000
Electrical life(cycles)	6000 (I <sub>n</sub> ≤100A), 4000 (I <sub>n</sub> >100A)

## Terminal distribution

### EXB3L1-100

Residual Current Circuit Breaker



#### Features

- High quality execution and attention to details
- Leakage current protection, thermal magnetic tripping
- Rated Currents from 16A up to 100A
- Rated Sensitivity 10mA, 30mA, 50mA, 100mA, 300mA
- CB, CE, RoHS approved

Conforming standards:IEC61008-1

#### Main technical parameter

Items	Parameter
Rated voltage	240V(2P), 415V(4P)
Insulation voltage	500V
Rated impulse withstand voltage(U <sub>imp</sub> )	4kV
No. of poles	2P, 4P
Rated current	16A, 25A, 32A, 40A, 50A, 63A, 80A, 100A
Rated residual current(I <sub>Δn</sub> )	10mA(16A,25A,32A,40A),30mA,50mA,100mA,300mA
Type	AC/A
Rated current making & breaking capacity(I <sub>m</sub> )	1000A
Rated residual current making & breaking capacity(I <sub>Δm</sub> )	1000A
Rated conditional short-circuit current(I <sub>cn</sub> )	10kA
Rated residual conditional short-circuit current(I <sub>Δc</sub> )	10kA

#### Breaking time of residual current under I<sub>Δn</sub>

Type (wave form of the earth leakage sensed)	I <sub>Δn</sub> (mA)	I <sub>n</sub> (A)	Maximum breaking time			
			I <sub>Δn</sub>	2I <sub>Δn</sub>	5I <sub>Δn</sub>	250mA
Rated sensitivity of A/AC type	>30	16A,25A,32A,40A	0.1	0.1	0.04	—
	≤30	50A,63A,80A,100A	0.1	0.1	—	0.04
Rated sensitivity of A type	I <sub>Δn</sub> (mA)	I <sub>n</sub> (A)	Maximum breaking time			
			1.4I <sub>Δn</sub>	2.8I <sub>Δn</sub>	7I <sub>Δn</sub>	0.35A
	>30	16A,25A,32A,40A	0.1	0.1	0.04	—
	≤30	50A,63A,80A,100A	0.1	0.1	—	0.04

The circuit breaker is connected with cable (the cable selection is shown in Table 3),  
Tightening torque:2.0 N·m~2.5 N·m

Rated current I <sub>n</sub> (A)	16, 20	25	32	40, 50	63	80	100
Terminal size for cable(mm <sup>2</sup> )	2.5	4	6	10	16	25	35

## Terminal distribution

### EXH3-125

Switch Disconnectors (Modular Isolators)



Conforming standards:EN/IEC60947-3

The EXH3-125 disconnector switches offer below functions:

- Isolation function

### Main technical parameter

Product model	EXH3-125
No. of poles	1P、 2P、 3P、 4P
Rated current	20A、 25A、 32A、 40A、 50A、 63A、 80A、 100A、 125A
Rated insulation voltage	500V
Rated voltage	AC220V/230V/240V (1P) , AC230V(2P), AC380V/400V/415V (2P、 3P、 4P)
Rated operating frequency	50Hz/60Hz
Rated impulse withstand voltage	6kV
Rated short-time withstand current	1.5kA(RMS), t=1s
Rated short-circuit making capacity	2.5kA(peak)
Mechanical life(cycles)	8500
Electrical life(cycles)	3000
Utilization category	AC-22A、 AC-21B

### HUM18-63(Z)

Miniature Circuit Breaker



### Application scope

HUM18-63 series miniature circuit breakers (hereinafter referred to as circuit breakers) are mainly used for over-current protection of power line facilities and electrical equipment in buildings and similar places with AC 50/60Hz, rated voltage of 230V/400V and rated working current of no more than 63A, and also for infrequent on-off operations.

Conforming standards:EN/IEC60898-1.

### Main technical parameter

Frame size	63	
Rated Voltage	50HZ AC230V/400V , DC220V(1P、 2P)	
Rated Current	1、 2、 4、 6、 10、 16、 20、 25、 32、 40、 50、 63	
Rated breaking capacity	AC10000A ,DC:6000A	
Rated service short-circuit breaking capacity	AC7500A ,DC:6000A	
Poles	1P、 2P、 3P、 4P、 1P+N、 3P+N	
Lifespan (cycle)	Mechanical	20000
	Electrical	10000
Characteristics and Trip current range	B curve	AC:3~5In
	C curve	AC:5~10In DC:7~14In
	D curve	AC:10~20In

## Terminal distribution

### HUM18-63N

Miniature Circuit Breaker



### Application scope

HUM18-63N series Miniature circuit breakers offer a compact solution for all areas of protection requirements.They put you in control of all electric circuits - in industry, in non-residential buildings and in residential buildings.

The circuit breakers are in accordance with GB/T 14048.2 and IEC 60947-2 standards.

Conforming standards:EN/IEC60898-1.

### Features

- RoHS compliant
- KEMA,CB approved
- Suitable for reverse feed
- Finger safe terminals
- Wide range of accessories

### Main technical parameter

Frame size	63	
Rated Voltage	50Hz, 230/400V (1P) , 400V (2P, 3P, 3P+N,4P)	
Rated Current	1、 2、 4、 6、 10、 16、 20、 25、 32、 40、 50、 63	
Rated breaking capacity	6000	
Poles	1P、 1P+N、 2P、 3P、 3P+N、 4P	
Trip Curve	B、 C、 D	
Lifespan (cycle)	Mechanical	20000
	Electrical	10000

### HUM18-80

Miniature Circuit Breaker



### Application scope

HUM18-80 series miniature circuit breakers are mainly used for over-current protection of power line facilities and electrical equipment in buildings and similar places with AC 50/60Hz, rated voltage up to 380/400V and rated working current not exceeding 80A, and also for infrequent on-off operations.

Conforming standards:EN/IEC60898-1.

### Main technical parameter

Frame size	HUM18-80/HUM18-80E	
Rated Voltage	230/400V (1P) , 400V (2P, 3P, 3P+N,4P)	
Rated Current	80A	
Trip Curve	6000	
Rated breaking capacity	1P、 2P、 3P、 3P+N、 4P	
Poles	C、 D	
Lifespan (cycle)	Mechanical	20000
	Electrical	10000

## Terminal distribution

### HUM18-125

Miniature Circuit Breaker



#### Application scope

HUM18-125 series miniature circuit breakers are mainly used for over-current protection of power facilities and electrical equipment in power lines with AC 50/60Hz, rated voltage of 230V/400V and rated working current of 125A, and also for infrequent on-off operations.

This product has reliable performance, accurate protection characteristics, high breaking capacity, small size, and elegant appearance, and is an ideal replacement product.

Conforming standards:EN/IEC60898-1.

#### Features

- Energy limiting
- Breaking capacity up to 15kA
- Suitable for reverse feed

#### Main technical parameter

Frame size	125	
Rated voltage	50HZ 230V/400V	
Rated current	B、C curve	63、80、100、125
	D curve	63、80、100
Rate breaking capacity	Ics=7500A Icn=15000A	
Poles	1P、2P、3P、4P	
Characteristics and Trip current range	B curve	3In~5In
	C curve	5In~10In
	D curve	10In~20In
Lifespan (cycle)	Mechanical	20000
	Electrical	10000

### HUM18LY-63

Residual Current Circuit Breaker with Overcurrent Protection



#### Application scope

HUM18LY-63 RCBO combine residual current circuit breakers and miniature circuit breakers in one device. It protects people from fault currents and systems from short circuits and overload.

#### Features

- Type AC,Type A
- Complete range of accessories
- Less space required due to compact design and less wiring

#### Main technical parameter

Model	HUM18LY-63	
Poles	1P+N, N-pole is switched on and off together with other poles, without protection	
Rated current	6、10、16、20、25、32、40、50、63	
Rated residual operating current I <sub>Δn</sub> (mA)	30mA, 50mA	
Leakage type	AC、A	
	Voltage (V)	230
Rated breaking capacity	Breaking capacity (A)	10000
	Rated residual making and breaking capacity (A)	2000
Trip curve	B、C、D	
Remark	With isolation function	

## Terminal distribution

### HUM18LE-63

Series Miniature Circuit Breaker



#### Application scope

HUM18LE series miniature leakage circuit breaker is a new product developed by our company. It is suitable for AC 50Hz, rated voltage 400V, rated current does not exceed 63A, neutral grounding power circuit, mainly for personal electric shock protection and line equipment on buildings and similar use of overcurrent protection, it can also be used to protect the electrical equipment from insulation damage of ground fault current caused by the fire risk protection.

Conforming standards:EN/IEC61009-1.

#### Main technical parameter

Model	HUM18LE-63
Poles	1P+N、2P、3P、3P+N、4P
Rated current (A)	6、10、16、20、25、32、40、50、63
Rated residual operating current I <sub>Δn</sub> (mA)	30、50、75、100、150、200、300
Rated residual operating Voltage (V)	230/400V
Rated breaking capacity (A)	10000
Rated residual making and breaking capacity (A)	2000
Trip Curve	B、C、D

### HUH18-125

Series Isolator switch



#### Application scope

HUH18-125 series isolation switch is a newly developed product. This product is small in size, easy to install and beautiful in appearance. It is mainly used for isolation in electrical lines with AC 50Hz, rated voltage 230V/400V and rated current up to 125A. It can also be used for infrequent switch on and off the circuit.

Conforming standards: IEC60947-3.

#### Main technical parameter

Frame size	125
Rated voltage	50Hz、230V/400V
Rated operational current(A)	32、40、50、63、80、100、125
Poles	1P、2P、3P、4P
Rated short-time withstand current	20Ie/1S
Rated short-time making capacity	28.1Ie
Rated impulse withstand voltage(kV)	6
Lifespan(cycles)	Mechanical 10,000 Electrical 3,000
Use category	AC-22A
Protection degree	IP20

## Terminal distribution

### HUM18PV-63

Series Miniature Circuit Breaker



#### Application scope

HUM18DC-63 plastic case circuit breaker (hereinafter referred to as circuit breaker) is mainly suitable for overcurrent protection for power facilities and electrical equipment in the DC line with rated voltage up to 1000V and rated current up to 63A.

CB, CE, TUV approved

#### Main technical parameter

Frame size	63
Rated voltage	(1P)DC250V, (2P)DC500V, (3P)DC750V, (4P)DC1000V
Rated operational current(A)	1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63
Rated short-time withstand current	1000A
Rated short-time making capacity	7500A
Poles	1P, 2P, 3P, 4P
Rated impulse withstand voltage(kV)	4, 6
Use category	A
Lifespan	Mechanical 20000 Electrical 8000
Trip type	power distribution protection

### HLS1

Series Surge Protection Device



#### Application scope

The HLS1 Series Surge Protection Device (SPD) is suitable for low-voltage power grids with AC 50/60 Hz and rated voltage of 400 V, which can protect the system from the impact of transient surge voltage caused by lightning strike or switching operation, limit instantaneous overvoltage and discharge surge current.

Conforming standards: IEC 61643-11.

#### Main technical parameter

SPD (surge protection device)	B, C
Maximum continuous operating voltage	L-N: 385V(C type); 385V, 440V(B type); N-PE: 260V
Nominal discharge current	10kA (C type) 、 20kA(C type)、 25kA、 40kA、 60kA、 80kA(B type)
Maximum discharge current	20kA(C type)、 40kA(C type)、 50kA、 80kA、 100kA、 150kA(B type)
Short-circuit current tolerance	300A

## Terminal distribution

### HYZF1-63

Series Self-compound Overvoltage and Undervoltage Protector



#### Application scope

HYZF1-63 series self-compound overvoltage and undervoltage protector (hereinafter referred to as protector) is applicable to single-phase line with AC 230V, 50Hz and rated working current up to 63A, protect overvoltage and undervoltage caused by line fault to avoid abnormal voltage input Electrical equipment. It is mainly used in the incoming line of residential household box and the distribution line that needs to protect electrical equipment.

#### Main technical parameter

Rated Voltage	50Hz, 230V
Frame size rated current	63A
Rated operational current	20A, 25A, 32A, 40A, 50A, 63A
Load power	4.4kVA, 5.5kVA, 6.6kVA, 8.8kVA, 11kVA, 13.2kVA
Overvoltage operating voltage	275 (1±5%) V
Overvoltage recovery voltage	250 (1±5%) V
Undervoltage operating voltage	175 (1±5%) V
Undervoltage recovery voltage	190 (1±5%) V
Delay power transmission after power failure	≤60s
Delay of power transmission during fault recovery	20s~60s
Operation time	≤1s
Self power consumption	≤1W
Rated impulse withstand voltage	4kV
Rated limiting short circuit current	3000A

### JYC8

Series AC Household Contactor



#### Application scope

JYC8 series household AC contactor is mainly used for lines with AC 50Hz (or 60Hz), rated operating voltage up to 400V, rated operating current up to 63A, to control household appliances and similar uses of low sensing micro load; It can also be used to control the load of household motors, and the control power will be lowered accordingly. The products are applied in the home, villa, apartment, hotel and other places to achieve automation function, applied in the mass production of household appliances.

#### Main technical parameter

Frame size	25,63
Number of poles	1P, 2P, 3P, 4P
Rated operational current	16A, 20A, 25A, 32A, 40A, 63A
Coil working current	AC24V, 48V, 110V, 230V, other specifications can be negotiated with the manufacturer
Rated insulation current	500V

### HUX-30 Consumer Unit



#### Application scope

It is suitable for power supply in power plants and industrial and mining enterprises with 50Hz, less than 500V, three-phase three wire, three-phase four wire infrequently operated power distribution systems or for lighting power distribution.

Conforming standards: IEC61439-3

#### Main technical parameter

Number of ways	4, 6, 8, 10, 12, 15, 18, 20, 24, 30, 36, 40, 45
Rated operational current	6A~80A
Rated voltage	AC380V
Rated insulation voltage	AC500V

### CJX1 Series AC Contactor



#### Application scope

Suitable for 50Hz or 60Hz AC, voltage to 660V, current to 475A power lines, for long-distance frequent start and control of motors, and closing and breaking circuit. The CJX1 series reversible contactor is composed of mechanical interlocking mechanism, which can control the start, stop and reverse of the motor.

Conforming standards: IEC60947-4-1

#### Features

Double break point direct moving structure, flexible action mechanism, manual inspection is convenient, compact structure; Contact system, magnetic system are closed structure, powderDust is not easy to enter, improve the service life; The terminal is covered by protective cover, safe and reliable use.

#### Main technical parameter

Rated operational current	9A, 12A, 16A, 22A, 32A, 45A, 63A, 75A, 85A, 110A, 140A, 170A, 205A, 250A, 300A, 400A, 475A
Coil working voltage	AC36V, 110V, 127V, 220V, 380V, DC24V, DC110V, DC220V Only 9-22A specifications are available Other specifications can be negotiated with the manufacturer;
Rated insulation voltage	690V

### EXC3 Series AC Contactor



#### Application scope

It is mainly used for circuit of AC 50Hz/60Hz, rated voltage up to 690V, and rated operating current up to 95A under the AC-3 usage category. It is mainly used for frequent start and control of AC motor, closing and breaking the circuit remotely, and can be assembled as an electromagnetic starter with an appropriate thermal overload relay to protect the circuit from possible overload.

Conforming standards: IEC60947-4-1

#### Product characteristics

Small size, light weight, long life, low power consumption; Configurable and chaplain auxiliary contact group, air delay head, mechanical interlocking mechanism and other accessories, Composed of delay contactor, mechanical interlocking contactor, star triangle starter; And can be directly connected with the thermal overload relay to form electromagnetic start device.

#### Main technical parameter

Rated current	6A, 9A, 12A, 18A, 25A, 32A, 38A, 40A, 50A, 65A, 80A, 95A, 115, 150, 225, 265, 330, 400, 500, 630, 800
Coil working voltage	AC24V, 36V, 110V, 127V, 220V, 380V, other specifications can be negotiated with manufacturer
Rated insulation voltage	690V

## CJX2

Series AC Contactor



### Application scope

Suitable for AC 50Hz or 60Hz, voltage up to 660V, current up to 95A circuit, for remote closing and breaking circuit and frequent start and control of the AC motor. The contactor can also be equipped with a block type auxiliary contact group, air delay head, mechanical interlocking mechanism and other accessories to form a delay connection contact, reversible contactor and star triangle starter. It can be directly inserted and installed with thermal relay to form an electromagnetic starter.

Conforming standards: IEC60947-4-1

### Features

Small size, light weight, long life, low power consumption; Auxiliary contact group of block type, air delay head, mechanical interlocking mechanism and other accessories can be configured into delay contactor, mechanical interlocking contactor and star triangle starter; And the electromagnetic starter can be directly inserted and installed with the thermal overload relay.

### Main technical parameter

Rated current	9A, 12A, 18A, 25A, 32A, 40A, 50A, 65A, 80A, 95A
Coil working voltage	AC36V, 110V, 127V, 220V, 380V, other specifications can be negotiated with manufacturer
Rated insulation voltage	690V

## CJ19

Series Switching Capacitor Contactor



### Application scope

Mainly suitable for AC 50Hz, rated operating voltage up to 400V, control capacitor capacity up to 50kvar electricity system under AC-6B usage category, to switch three - phase single pole or multipole capacitor banks to improve power factor.

Conforming standards: IEC60947-4-1

### Features

The limited current resistor can restrain the closing inrush current within the allowable range. Direct action double breakpoint structure, flexible operation structure, manual inspection is convenient, and the structure is compact.

### Main technical parameter

Conventional thermal current	25A, 32A, 43A, 63A, 80A, 95A
Rated operational current	17A, 26A, 29A, 44A, 54A, 72A
Coil working voltage	AC36V, 110V, 127V, 220V, 380V, other specifications can be negotiated with manufacturer
Rated insulation voltage	500V

## HUC1

AC Contactors



### Application scope

HUC1 Series contactors are mainly used for controlling non-inductive or slightly inductive loads and generally for controlling power circuits up to 690 V AC. These contactors are of the block type design with 3 or 4 main poles. It can be widely used in wind power, photovoltaic and other renewable energy projects.

Conforming standards: IEC60947-4-1

### Features

- Compact size.
- Rate current up to 1200A.
- Reduced coil consumption.
- Add-on auxiliary contact blocks for side mounting and a wide range of accessories
- Wide control voltage range (24V, 120V, 220V, 277V, 480V, 690V).
- Easy, fast and secure starters assembly.

### Main technical parameter

Rated operational current	6A, 9A, 12A, 16A, 25A, 30A, 40A, 50A, 63A, 75A, 80A, 90A, 100A, 145A, 175A, 210A, 260A, 300A, 370A, 550A, 700A, 800A
Rated voltage	AC24V, 36V, 110V, 220V, 380V, other specifications can be negotiated with the manufacturer;
Rated insulation voltage	690V

## EXR3

Series Thermal Overload Relay



### Application scope

EXR3 series thermal overload relay is mainly used in circuits with AC 50Hz, rated working voltage up to 660V and rated working current of 0.1~630A, and to start and accelerate motor to the normal speed, as well as for circuit and three phase AC motor overload and phase breaking protections. It can also form a starter with the adaptive AC contactor. Similar model: LR2/JR28. This product can replace JRS1 perfectly.

Conforming standards: IEC60947-4-1

### Features

- With phase fault and temperature compensation structure;
- Combined installation can prevent finger contact;
- The setting current is continuously adjustable;
- Automatic and manual reset arbitrary selection, action indicating function;
- Normally closed and normally open auxiliary contact insulation separate;
- It has a test button and a stop button.

### Main technical parameter

Frame size	25A, 36A, 93A, 180A, 400A, 630A
Setting current	0.1~630A
Protection function	motor overload and lack of phase protection
Installation mode	plug-in type
Tripping class	10A
Reset mode	manual reset and automatic reset
Compatible with contactor	EXC3

## JRS1

Series Thermal Overload Relay



### Application scope

It is suitable for circuit with AC 50Hz, rated working voltage up to 660V and rated working current of 0.1-93A, and for AC motor overload and phase breaking protections. It can form a starter with the adaptive AC contactors, and inserted and installed with CJX2 and H8C series AC contactors.

Conforming standards: IEC60947-4-1

#### Features

- With phase fault and temperature compensation structure;
- Combined installation can prevent finger contact;
- The setting current is continuously adjustable;
- Automatic and manual reset arbitrary selection, action indicating function;
- Normally closed and normally open auxiliary contact insulation separate;
- It has a test button and a stop button.

### Main technical parameter

Frame size	25A, 36A, 93A
Setting current	0.1~93A
Protection function	motor overload and lack of phase protection
Installation mode	plug-in type
Trip grade	10A
Reset mode	manual reset and automatic reset
Compatible with contactor	CJX2

## JRS2

Series Thermal Overload Relay



### Application scope

Suitable for electricity system with AC 50Hz, main circuit rated voltage up to 660V and rated current of 0.1-630A. It is used for three-phase AC asynchronous motor overload and phase-out protection.

Conforming standards: IEC60947-4-1

#### Features

- With differential phase break protection and temperature compensation device;
- Combined installation can prevent finger electric shock;
- The setting current is continuously adjustable;
- With automatic or manual reset button;
- Normally closed normally open auxiliary contact insulation separate;
- There is a detection button and a trip indication.

### Main technical parameter

Current setting range	12.5~630A
Setting current	0.1~630A
Function	motor overload and lack of phase protection
Installation mode	combined and independent installation
Tripping class	10A
Compatible with contactor	CJX1

## F4

Series Auxiliary Contact Block



### Application scope

F4 auxiliary contact set is a supporting accessory for JZC4 and CJX2 series products. The number of auxiliary contacts can be increased to form star triangle starter.

Conforming standards: IEC60947-5-1

### Main technical parameter

Model	F4-11, F4-20, F4-02, F4-40, F4-31, F4-22, F4-13, F4-04
Conventional thermal current Ith	10A
Rated operational voltage Ue/ Rated operational current Ie	AC-15: AC380V/0.95A, AC220V/1.63A; DC-13: DC220V/0.15A, DC110V/0.3A
Rated insulation voltage Ui	660V
Number of contacts	2, 4

## LA2、LA3

Series Time delay auxiliary contact block



### Application scope

The air delay head is an accessory of the AC contactor and contactor relay, which is connected to the AC contactor and contactor relay on electrical appliances, to switch on and off instantaneously or with delay in the control circuit.

Conforming standards: IEC60947-5-1

### Main technical parameter

Model	LA2-D20, LA2-D22, LA2-D24 (LA2 is power on delay) LA3-D20, LA3-D22, LA3-D24 (LA3 is power off delay)
Conventional thermal current	10A
Rated voltage/Rated current	AC-15: AC380V/0.95A, AC220V/1.63A DC-13: DC220V/0.15A, DC110V/0.3A
Rated insulation voltage	660V
No. of Contacts	1NO+1NC
Delay range	0.1~3s, 0.1~30s, 10~180s

## BH

Series Current Transformer



### Application

To be used in combination with measurement instrument; ammeters, watt-hour meters, measurement units, control relays, etc.

### Technical data

1. Secondary current  $I_{sm}$ : 5A
2. Max. voltage rating  $U_e$ : 660V
3. Frequency: 50/60Hz
4. Safety factor (f): 10
5. Degree of protection: IP20
6. Operating temperature:  $-5^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ , humidity < 80%
7. Standards: IEC/EN60044-1
8. Installation type: Mounting on plates or bars

Model	Transformation ratio ( $I_{pn}/I_{sn}$ )	Rated output (VA)			Circles of the cable	
		Accuracy class				
			0.5	0.55	0.2	
BH-0.66 solid type	5/5	5	2.3			
	10/5	5	2.5			
	15/5	5	2.3			
	20/5	5	2.5			
	25/5	5	2.5			
	30/5	5	2.5			
	40/5	5	2.5			
	50/5	5	2.5			
BH-0.66 20 I	75/5	2.5				1
	100/5	2.5				1

## HH52P

Series Multi purpose relay



### Application scope

HH52P series Multi-purpose electromagnetic relay is applicable to electronic control equipment, household appliances, office automation, test, security, commercial machinery, communication equipment, automobiles, machine tools, construction, transportation equipment, instruments and meters, and can be used as remote control intermediate conversion or amplification elements. Complete AC/DC specifications and various installation methods; A variety of sockets are available, and there are specifications with lights.

### Main technical parameter

contact	form	2Z, 3Z, 4Z
	Load (resistive)	5A/250VAC 30VDC
	Contact resistance (initial)	500m $\Omega$
	Material	silver alloy
	Electrical life (cycles)	$1 \times 10^5$
	Mechanical life (cycles)	$1 \times 10^7$
	Insulation Resistance	$\geq 100\text{m}\Omega$ (500VDC)
	Ambient Temperature	$-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$
	Ambient Humidity	45%~75%RH
	Atmospheric Pressure	86kPa~106kPa
Impact (stability)	celeration $100\text{m/s}^2$ , pulse duration 11ms	
Vibration	Double amplitude 1.0mm, 10 ~ 55Hz	
Installation Method	din-rail socket type, bolt mounted type, PCB printing board welding type	

## HH64P

Series Multi purpose relay



### Application scope

HH64P series electromagnetic relay is applicable to electronic control equipment, household appliances, office automation, test, security, commercial machinery, communication equipment, automobiles, machine tools, construction, transportation equipment, instruments and meters, and can be used as remote control intermediate conversion or amplification elements. Complete AC/DC specifications and various installation methods; A variety of sockets are available, and there are specifications with lights.

### Main technical parameter

contact	form	1Z, 2Z, 3Z, 4Z
	Load (resistive)	16A/240VAC 30VDC 10A/240VAC 30VDC
	Contact resistance (initial)	500m $\Omega$
	Material	silver alloy
	Electrical Life (cycles)	$1 \times 10^5$
	Mechanical Life (cycles)	$1 \times 10^7$
	Insulation Resistance	$\geq 100\text{m}\Omega$ (500VDC)
	Ambient Temperature	$-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$
	Ambient Humidity	45%~75%RH
	Atmospheric Pressure	86kPa~106kPa
Impact (stability)	celeration $100\text{m/s}^2$ , pulse duration 11ms	
Vibration	Double amplitude 1.0mm, 10 ~ 55Hz	
Installation Method	din-rail socket type, bolt mounted type, PCB printing board welding type	

### BSMJN

Series Self-healing Low-voltage Parallel Power Capacitor



#### Application scope

It is mainly used to improve power factor, reduce reactive power loss and improve voltage quality in low-voltage power grid.

Conforming standards:EN/IEC60831-1

#### Main technical parameter

Rated voltage	0.12~1.2kV
Rated capacity	1~100kVar
Capacity tolerance	5%~10%
Tangent value of loss angle	$\text{tg}\delta \leq 0.1\%$
Withstand voltage	2.15 times 5s between poles, no permanent breakdown or flashover
Discharge device	Built-in discharge resistance, and the voltage of capacitor drops to below 75V within three minutes after cutting off the power supply
Maximum allowable overvoltage	110% of rated voltage
Maximum allowable overcurrent	130% of rated current

#### Instructions

Capacitors of one grade higher than the actual voltage shall be selected to prolong the service life;

If the voltage change rate is higher than 5%, the front end of the capacitor incoming line must be treated;

When used in systems with higher harmonics, reactance must be added to block higher harmonics;

Capacitors shall be maintained and operated under the condition of not exceeding the rated voltage and current

### HYIC3

Series Harmonic Suppression Intelligent Power Capacitor Compensation Device



#### Application scope

HYIC3 series intelligent integrated power capacitor compensation device is based on two or more groups (delta type) or one or more (Y type) of low-voltage power capacitors, integrating advanced technologies such as modern measurement and control, power electronics, network communication, and automated control. It the traditional system where separate components including controllers, fuses, composite switches or mechanical contactors, thermal relays, low-voltage capacitors, and indicator lights are by wires within a cabinet.

The low-voltage reactive power compensation device composed of it has the characteristics of flexible compensation methods, good compensation effects, small device, low power consumption, convenient installation and maintenance, long service life, strong protection functions, and high reliability. It also truly achieves zero-crossing switching, meets actual needs of users for equipment, and adapts to the higher requirements of modern power grids for reactive power compensation devices.

Executive standard: GB/T 15576 "Low-voltage integrated reactive power compensation device".

### HYIC3X

Series Harmonic Suppression Intelligent Power Capacitor Compensation Device



#### Application scope

HYIC3X series harmonic suppression intelligent power capacitor compensation device, intelligent zero crossing switching relay, intelligent protection unit, low-voltage self-healing type power capacitors and dry-type series reactors form an independent and complete intelligent compensation unit.

Replace the automatic reactive power compensation device assembled by intelligent reactive power controller, fuse (or micro break), thyristor composite switch (or connector), thermal relay, indicator light, low-voltage power capacitor, dry series reactor and other scattered components.

The product integrates advanced technologies such as electronic technology, sensor technology, network technology and electrical manufacturing, and integrates, networking and intelligentize traditional reactive power compensation products. It changes the structure mode of the existing low-voltage reactive power automatic compensation equipment, greatly improves the reliability and service life of the equipment, and has the comprehensive advantages of simple structure, simple production, low cost, improved performance, and simple maintenance.

The product is mainly used for reactive power compensation in very serious harmonic situations. It can operate reliably without resonance, has no amplification effect on harmonics, and has the function of absorbing and eliminating harmonics to a certain extent. Among them, the products connected with 7% reactors in series are used in the electrical environment where the main harmonic is 5 times, and the products connected with 14% reactors in series are used in the electrical environment where the main harmonic is 3 times.

### HYIC3-K

Series Intelligent Reactive Power Compensation Controller



#### Application scope

Low voltage reactive power integrated measurement and control instrument (hereinafter referred to as measurement and control instrument) is a new generation product developed and produced by the company on the basis of absorbing low-voltage reactive power automatic compensation technology at home and abroad to meet the development needs of low-voltage reactive power automatic compensation.

The measurement and control instrument has RS-485 communication interface, which can be used together with the intelligent capacitor produced by our company. It has the functions of collecting and displaying electrical measurement data, monitoring and displaying the operating condition and switching status of the intelligent capacitor, and automatically controlling the switching container according to reactive power and target power factor. The connection is simple and the operation is reliable. This product can replace 3 voltmeters, 3 ammeters, 3 power factor meters, 1 low-voltage reactive compensation controller and all capacitor status indicators on the existing low-voltage reactive compensation cabinet, making it extremely simple and saving a lot of wiring.

#### Main technical parameter

Operation power supply

(1) Operation voltage: AC 50HZ, 380V  $\pm$  20%

(2) Power consumption: less than 2VA

(3) Current sampling: AC 0~5A

measurement accuracy

(1) Voltage:  $\leq$  0.5%

(2) Current:  $\leq$  0.5%

(3) Reactive power:  $\leq$  1.0%

(4) Active power:  $\leq$  1.0%

(5) Power factor:  $\pm$  0.01

Capacity control

(1) Three phase compensation type: 48 sets

(2) Split phase compensation type: 48 sets

(3) Mixed compensation type: 48 sets

## JKWF

### Series Reactive Power Automatic Compensation Controller



### Application scope

JKWF series reactive power automatic compensation controller takes high-speed high-performance microprocessor as the core device to sample 3-phase voltage and 3-phase current signals at the same time, and provides 6 sub compensation+co compensation schemes and 12 switching coding schemes. Users can choose at will by modifying control parameters. Once the control parameters are modified and permanently saved, power loss will not be lost. Fundamental wave power factor and fundamental wave reactive power are used to control the switching of capacitor bank. The switching is stable without switching oscillation, and is insensitive to voltage harmonic and current harmonic interference. It is applicable to the automatic control of reactive power compensation of power systems under AC 45Hz-65Hz and 0.4KV.

In accordance with standard: JB/T 9663.

### Main technical parameter

Rated working current	AC 0~5A
Rated working voltage	AC 220V ±20%
Static output contact capacity	AC 220 7A
Dynamic output capacity	-12V 10mA
Display power factor	lag 0.001 - lead 0.01
Undervoltage protection value	170V
Sensitivity	50mA
Protection grade	enclosure IP40