

# JUQI

For electrical engineering challenges, Juqi is here to help you solve them.

## JUQI Electric Co., Ltd.

Details Define Quality, and Quality Builds the Brand.

We believe that ensuring product quality is our responsibility to customers.

It is also our responsibility to end users.

For our company, quality is the lifeline.

It is the foundation of survival and growth.

Providing high-quality products means safeguarding our customers' trust and contributing to the long-term development of cities and communities.

## “About Juqi Electric”

JUQI Electric Co., Ltd.



Wenzhou Juqi Electric Co., Ltd. is a professional manufacturer and supplier of intelligent low-voltage electrical products, integrating R&D, production, and sales. Our main product range includes:

- Electric operating mechanisms
- Surge protectors
- Backup protectors
- Fireproof current-limiting protectors
- Automatic reset over/under voltage protectors
- Arc fault detection devices
- Automatic transfer switches (ATS)
- Control and protection switches
- Intelligent lighting systems
- Accessories for MCCBs and MCBs (shunt trip devices, undervoltage releases, overvoltage releases, combined over/undervoltage releases, no-voltage releases, auxiliary contacts, alarm contacts)

We offer over 2,000 models and specifications for both industrial and building applications.

Since our establishment, we have adhered to independent innovation and technological development, guided by a spirit of excellence. Through a strategy of “internal training and external recruitment,” we have built a highly skilled and internationally-minded team to provide first-class products and services to customers worldwide.

Our factory is equipped with advanced production lines, strong technical capabilities, and complete testing facilities. Many of our low-voltage electrical products have obtained industry-leading certifications and are widely recognized in domestic and overseas markets.

In today's competitive and fast-changing global economy, Wenzhou Juqi Electric remains committed to innovation, brand building, and market diversification. With technology as our core, marketing as our driving force, talent as our foundation, and the low-voltage electrical industry as our pillar, we strive to create an internationally recognized brand and deliver diversified, high-quality products to customers around the world.



## CD2 type-Electric operating mechanism



### Product description

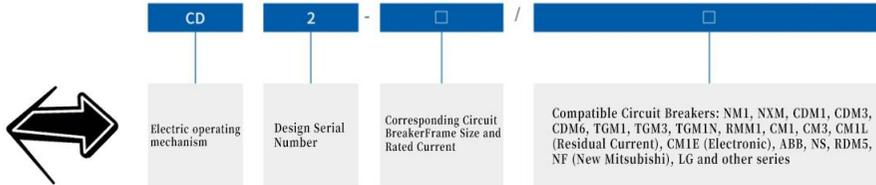
The CD2 series electric operating mechanism (hereinafter referred to as the electric operator) is driven by a small permanent magnet DC motor. It is a dedicated actuator for 63-1250A molded case circuit breakers to perform long-distance electric closing, opening, and reclosing operations. It can realize the remote or centralized control of various electrical equipment.

### Product Characteristics

- Compact structure, small size, easy installation, reliable action, manual operation can also be carried out by the handle.
- The product adopts the internationally advanced "switching power supply" technology, and its mechanical life, electrical life, and reliability are comparable to those of current international similar products.
- The CD2 series electric operator is applicable to both AC and DC, has a wide applicable range of control circuit voltage, and low working power consumption.
- Colored (red, green, white) indicators show the closing, opening, and tripping statuses of the circuit breaker.



### 产品型号及含义



### Performance Parameters

Rated Working Voltage	DC24V, AC110V/DC110V, AC230V/DC220V, AC400V
Rated Insulation Voltage	250V, 500V when the rated working voltage is 400V
AC Voltage Frequency	50Hz/60Hz
Rated Duty System	Short-time duty system
Action Time	0.7-1.5S
Power Frequency Withstand Voltage	1890V, lasting for 5S
Working Temperature	-5-40°C
Heat Resistance	50°C, 90% humidity

## MT type-Electric operating mechanism



### Electric Operating Mechanism (Applicable Molded Case Circuit Breaker Models)

NSX100-250/CVS100-250/EZS100-250  
NSX400-630/CVS400-630/EZS400-630

### Product Characteristics

- New appearance design, new user experience
- Wide voltage input - 110V-230V AC/DC
- Strong versatility - applicable to NSX/CVS/EZS circuit breakers

### Please Note

- Installation, operation, repair and maintenance of electrical equipment shall be performed only by qualified personnel.
- We shall not be liable for any consequences arising from the use of this material.

### ▲▲ WARNING / 警告

#### Risk of electric shock and burn

- This equipment is suitable for TT/TN earthing systems, not for IT earthing systems.
- The equipment must be installed only when the circuit breaker is in the open state.
- Ensure that the circuit breaker handle is inserted into the equipment handle slot.
- When wiring, use terminals with 1/2(R) or 3/4(R) threads.
- After completing the wiring, push the circuit breaker to the "ON" position, and then perform a closing test.
- After the test is completed, the circuit breaker must be switched to the "OFF" position.
- Do not leave it in the test position.
- It is strictly forbidden to operate when the circuit breaker is in the closed state without a load.
- When operating manually, rotate clockwise by 180°, and counterclockwise rotation is strictly prohibited.

Failure to follow the above instructions may result in personal injury, serious property damage or equipment damage.

## CD type-Electric operating mechanism

### Product description

CD type electric operating mechanism (hereinafter referred to as electric operator) is a dedicated accessory for low-voltage plastic enclosed circuit breakers. After being matched with the circuit breaker, it can perform remote electric closing, opening and reclosing of the circuit breaker to realize centralized control and automatic control of the power transmission and distribution network. CD series electric operating mechanism is driven by a motor and is suitable for operating circuit breakers with a large current rating of 250A and above. This series of electric operating mechanisms can be equipped with a self-locking relay.





## Surge Protector

### Product description

Surge Protective Device (SPD), also known as surge arrester or lightning arrester, is an electronic device that provides safety protection for various electronic equipment, instruments, and communication lines. When sudden peak current or voltage occurs in an electrical circuit or communication line due to external interference, the surge protector can conduct and shunt in an extremely short time, thereby avoiding damage to other equipment in the circuit caused by the surge.

It is suitable for AC 50/60Hz, rated voltage 220V/380V power supply systems. It protects against indirect lightning strikes and direct lightning strikes or their resulting overvoltage, and is applicable to household residences, tertiary industry, and industrial fields for surge protection requirements. It has protection modes such as phase-to-phase, phase-to-ground, phase-to-neutral, neutral-to-ground, and their combinations.

JUU6 series surge protector (hereinafter referred to as SPD) is suitable for IT, TT, TN-C, TN-S, TN-C-S and other power supply systems in low-voltage AC power distribution systems. It protects against indirect lightning strikes, direct lightning strikes, or other transient overvoltage surges. It is a Class II surge protector in accordance with IEC61643-1:1998-02 standard. The SPD has common mode (MC) and differential mode (MD) protection methods. The product complies with GB/T18802.11-2020 and IEC61643-1 standards.



## Back-up Protector

### Product description

JUU6-S Surge Back-up Protector is a specially developed product that provides an optimal back-up protection solution for SPDs. This product solves the safety hazards associated with using circuit breakers or fuses as back-up protection for SPDs.

- SCB is suitable for TT, TN and other systems with 50/60Hz and below 400V. It features no false tripping when lightning current passes through; and rapidly cuts off current when SPD breaks down and short-circuits.
- low impulse current residual voltage. The product complies with NB/T42150-2021, IEC61643-11:2011 and other standards.
- Achieves selective control of the tripping mechanism segmentation through changes in current parameters.
- Low impulse current residual voltage, with test performance superior to air switches and fuses.
- Uses high-energy materials to solve the problem of product service life.
- The product can be used with T1, T2, T3 three types of SPD; installed on a 35mm DIN rail for immediate use.
- Optional remote control alarm.



Plug-in type molded case circuit breaker with rear panel connection



Plug-in type molded case circuit breaker with rear panel connection



Plug-in type molded case circuit breaker with rear panel connection



M1 - 100 Shunt Trip Release



M1 - 225 Shunt Trip Release



M1 - 400 Shunt Trip Release



M1 - 630 Shunt Trip Release



NXM - 63/125 Shunt Trip Release



NXM - 160 Shunt Trip Release



OF - 63/125 Auxiliary Contact



OF - 160 Auxiliary Contact



NXM - 400/630 Shunt Trip Release



MX/SHT - NS/CVS Shunt Trip Release



EZD-250 Shunt Trip Release



EZD-160 Auxiliary Contact



NXB MV+MN



DZ47S MV+MN



TGMIN MV+MN



DZ47 MV+MN



NXB MX+OF



DZ47S MX+OF



TGMIN MX+OF



DZ47 MX+OF



ABB/S200/203 MX+OF



IC65/EA9/C120 MX+OF



NDB1 MX+OF



5SY6/5SN MX+OF



Automatic recovery over under voltage protector



Automatic recovery over under voltage protector



Automatic recovery over under voltage protector



Automatic recovery over under voltage protector

## Arc Fault Protector

### Product Overview

The JUF63 series Arc Fault Circuit Interrupter (AFCI, also known as AFDD Arc Fault Protector) technology is the latest circuit protection product. Its function is to detect and identify ground arc faults, series arc faults and parallel arc faults caused by risks such as aging of internal circuits of electrical equipment or power circuits, poor contact, and line breakage, and immediately drive the circuit breaker to cut off the power supply to prevent electrical fires.

The JUF63 series protector can choose different protection functions according to different user needs, integrating arc fault protection, overload protection, and short circuit protection, and can optionally add leakage protection, over/under voltage protection, and RS485 communication functions.



### Normal Operating Conditions

- Operating environment temperature: -25°C ~ 70°C
- Altitude: ≤ 2000 meters
- Moisture resistance: When the temperature is +55°C, the relative humidity is 90% ~ 96%; when the temperature is 25°C, the relative humidity is 95% ~ 98%
- Pollution degree: Level 2
- Installation category: II, III

### Product Features

- The JUF63 arc fault protector adopts embedded system digital circuit control and an innovative arc characteristic recognition algorithm, with small size and powerful function. It realizes automatic monitoring and protection of fault arcs, effectively ensuring the safety of low-voltage distribution circuits, electrical equipment and personal safety.
- It adopts a comprehensive fault arc detection method combining typical time-domain characteristic detection of line current and frequency-domain FFT, realizing simultaneous positioning in time domain and frequency domain.



## Fault Arc Detector

### Product Overview

A fault arc detector is a new type of electrical circuit protection device. Starting from the causes of electrical fires, it applies current waveform characteristic value detection technology to the field of fault arc detection. Through real-time detection of electrical circuits, it can distinguish normal operating arcs and fault arcs on each phase line, detect and identify dangerous ground fault arcs, parallel fault arcs, and series fault arcs. At the same time, it sends out sound and light alarm information and outputs a tripping signal in time to disconnect the electrical circuit, avoiding electrical fires, eliminating blind spots in electrical fire hidden danger detection, and making up for the technical defects of current electrical fire monitoring system products on the market. The product has the characteristics of high reliability, strong stability, convenient user operation, and simple maintenance, and is widely applicable to hospitals, schools, families, museums, exhibition halls, ancient building complexes, Internet cafes, hotels, large shopping malls, commercial districts, factories, warehouses, etc.





## Dual - power Automatic Transfer Switch

### Product Overview

The JUQ3 series isolating dual - power automatic transfer switch integrates a switch and logic control, and is a truly mechatronics - integrated automatic transfer switch. It has functions such as voltage detection, frequency detection, communication interface, electrical and mechanical interlocking, etc., and can realize automatic, electric remote, and emergency manual control. The operation is realized by the logic control board managing the operation of the motor and the gearbox with various logic commands. The motor drives the switch spring to store energy, and the acceleration mechanism released instantaneously quickly connects, breaks the circuit, or performs circuit conversion. Safety isolation is realized through an obviously visible state, which greatly improves various electrical and mechanical performances.

The product complies with the standards: IEC6094 - 6 - 1, GB14048.11 - 2008.

### Main Technical Parameters

- Control power supply voltage: DC24V, DC48V, AC230V;
- Rated insulation voltage (Ue): AC690V;
- Rated working voltage (Ue): AC400V;
- Rated working current (Ie): 10 - 3200A;



## Control and Protection Switch

### Product Overview

The JUK4 series control and protection switch is applicable to power systems with an AC voltage of up to 690V/50Hz (60Hz) and a rated current ranging from 0.25A to 125A. It can connect, carry, and break the current under normal conditions (including the specified operating overload conditions), and can also connect, carry, and break the current under specified abnormal conditions, such as short-circuit current. It is widely used in construction, communication equipment, textiles, metallurgy, petrochemicals, water conservancy projects, water treatment, mechanical equipment, complete sets of equipment, ships, food processing, and motor control centers, etc.

If the size of the load (such as an electric motor) changes, parameters such as the rated current (which can only be adjusted within the range of 0.4 - 11e of the main rated current), the starting current multiple, and the starting delay time can be reset under no-load conditions, so as to play a very good protective function.

### Product Features

- Adopt high-efficiency new imported single-chip microcomputers to realize automatic control; achieve comprehensive protection and precise control.
- Can realize three-stage protection.
- The product parameter settings are complete and intuitive, and the protection function is stable and reliable.
- The switch has high reliability in working characteristics, with mechanical interlocking and electrical interlocking, ensuring the high reliability of the product.

