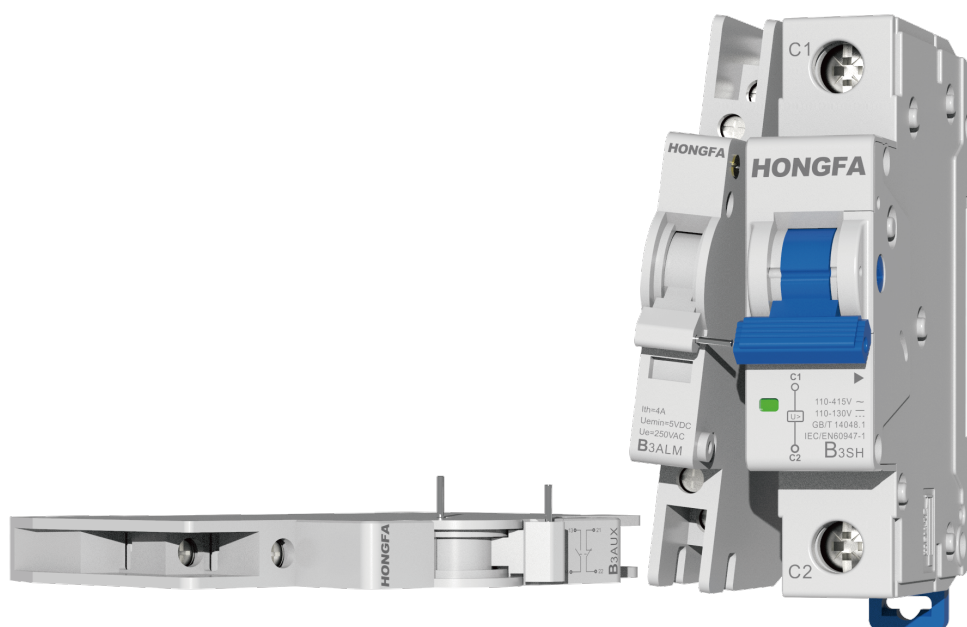


Accessories Specification

UEB3 Series



INTRODUCTION

Hongfa, (Shanghai Stock Exchange: 600885), founded in 1984, has been adhering to the enterprise spirit of “persevere for progress, strive for excellence”, and has built a complete industry system with complete categories and supporting facilities. At present, Hongfa has more than 30 subsidiaries and has established three districts of R & D and production bases. Its products cover various categories, such as medium and low voltage products, relays, high and low voltage switchgear, capacitors, precision parts and automation equipment.

Xiamen Hongfa Electrical Safety & Controls Co., Ltd. is a wholly-owned subsidiary of Hongfa, which specializes in R & D, design and manufacture medium and low voltage products. Its distribution apparatus, terminal apparatus, control apparatus and other products are widely used in real estate, electric power, new energy, industry, HVAC, transportation, information and other fields.

In the United States, Europe, Southeast Asia and other regions, Hongfa has established localized marketing and service networks with global market operation and technical service. Relying on professional and rigorous technical support, fast response and all-round service, safe and reliable product quality and high cost performance, Hongfa has reached business cooperation relationship with many global top 500 enterprises and other well-known enterprises, such as Enel, GE, Honeywell, Carrier, Trane, Johnson Controls, Danfoss, State Grid, China Southern Power Grid, CRRC, China Mobile, China Unicom, etc.



Sunban Industrial Park



Donglin Industrial Park



Haicang Industrial Park



Zhongjiang Industrial Park



Zhangzhou Industrial Park



Zhoushan Industrial Park



Xi'an Factory

In terms of technology R & D and manufacturing, taking the national enterprise technology center as the platform, Hongfa has set up postdoctoral research workstation, academician and expert workstation. Now it has developed into a leading scientific research and production base in the industry. From product development, mold manufacturing, parts manufacturing, automated product assembly and online testing, Hongfa has successfully built an integrated whole industry chain of medium and low voltage products. In terms of product testing, Hongfa testing center has passed the certification of VDE, UL, CNAS and other international organizations, and has complete testing and analysis equipment for low-voltage products, such as 50kA ultimate short circuit test, 8kA electrical life test, 80kA characteristic test, mechanical simulation and testing system, electro-magnetic simulation and testing system.

Hongfa always adheres to the policy of "focused on the market, winning through quality", and has a completed quality assurance system. Its products have passed UL / CUL, VDE, CQC, CCC and other international safety certification. In the process of quality management, Hongfa actively implements the advanced quality concept, constantly improves the quality management system, continuously promotes the product process quality control and testing, strengthens the supply chain management, and is committed to providing each customer with high-quality products and creating greater value.

Advanced technology and strict quality control have created Hongfa's brand strength. Hongfa is willing to work hand in hand with global customers to share the convenience and well-being brought by science and technology.

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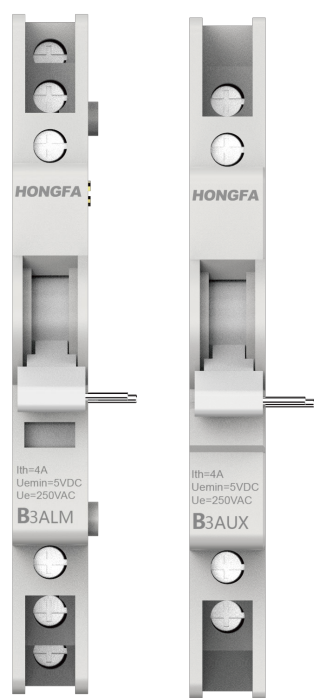
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Selection Table

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Auxiliary Contact, Alarm Contact



Production Overview

Scope of Application

This series of accessories is auxiliary functional element matching with UEB3 or UEB6 series circuit breakers. Individual accessory can be selected to match the UEB3 or UEB6 circuit breakers according to the demands to realize remote control , providing auxiliary signals, opening and closing state indication and alarm signals.

Standard

| | | |
|--|-----------|---|
| GB/T 14048.5 Low voltage switchgear and control equipment | Part 5-1: | Control circuit appliances and switching components Electromechanical control circuit appliances |
|--|-----------|---|

Standard Operation And Installation Conditions

- Operating temperature range: $-35^{\circ}\text{C} \dots +70^{\circ}\text{C}$
- Altitude $< 2000\text{m}$
- Environmental conditions: There should be no medium that causes explosion hazards, no harmful gases or conductive dust that corrode and damage insulation
- Mounting conditions: 35mm DIN rail

Ordering Information

| | | | | |
|--|----------|----------|------------|------------|
| | B | 3 | AUX | -2C |
| Product code: MCB | | | | |
| Design serial number: 3 | | | | |
| Accessory type: AUX: Auxiliary contact | | | | |
| Contact type: 2C: 2 sets of conversion contacts | | | | |

Main Technical Parameter

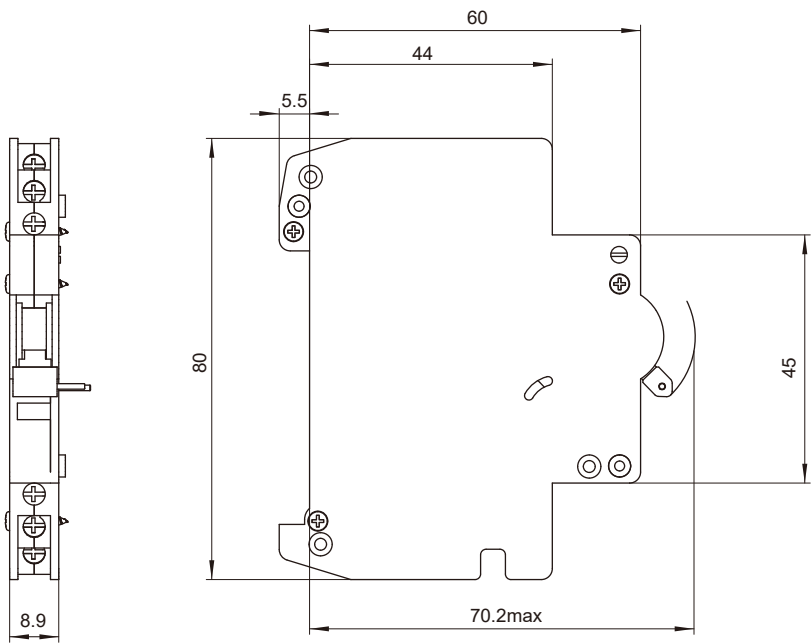
| Model | B3AUX/ B3ALM |
|--|---|
| Contact breaking capacity | AC13: $I_e=3\text{A}$; $U_e=250\text{V}$ AC15: $I_e=2\text{A}$; $U_e=250\text{V}$ DC12: $I_e=0.5\text{A}$; $U_e=110\text{V}$ |
| Minimum operating voltage | 5V |
| Minimum operating current | 10mA |
| Rated insulation voltage | 500V |
| Rated limiting short-circuit current I_k | 1000A |
| Agreed heating current I_{th} | 4A |
| Mechanical endurance | 4000 |
| Electrical endurance | 2000 |
| Weight (g) | 40 |
| Dimension (L×H×W) | 80mm×75.7mm×14.3mm |

Wiring Capability

| Wiring screw specifications | Rated torque | Wire cross-sectional area |
|-----------------------------|--------------|--|
| M3 | 0.6 N·m | 1×0.5 mm ² ...1×2.5 mm ² |

Dimensions

Unit: mm



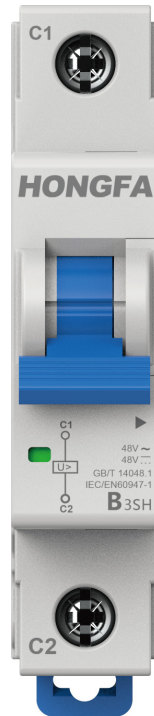
Note: For width dimensions,the unmarked tolerance is±0.4, for other dimensions, the unmarked tolerance is ±1.

Selection Table

| Type | Number of contact | Note |
|-------|--|--------------------|
| B3AUX | One normally open, - one normally closed | Auxiliary contacts |
| B3ALM | Two normally open, two normally closed | Alarm contacts |

Note:
 1. This accessory is applicable to UEB3-63, UEB6-63, UEB3-40, UEB6-40, UEB3L-63, UEB3L-40 series products;
 2. Auxiliary contacts and alarm contacts can only be assembled and used with either option.

Shunt Release



Production Overview

Scope of Application

The shunt release is an auxiliary functional component that is paired with UEB3 or UEB6 series circuit breakers. When the shunt release receives a release signal, it controls and triggers the release of the circuit breaker assembled with it, thereby achieving remote release.

Standard

GB/T 14048.1 Low Voltage Switchgear and Control Equipment - Part 1: General


Standard Operation And Installation Conditions

- Operating temperature range: $-35^{\circ}\text{C} \dots +70^{\circ}\text{C}$
- Altitude: $< 2000\text{m}$
- Environmental conditions: There should be no medium that causes explosion hazards, no harmful gases or conductive dust that corrode and damage insulation
- Mounting conditions: 35mm DIN rail.

Ordering Information

| | | | | |
|--|----------|----------|-----------|------------|
| | B | 3 | SH | /24 |
| Product code: MCB | | | | |
| Design serial number: 3 | | | | |
| Accessory type: SH: Shunt Release | | | | |
| Rated voltage: 24: AC/DC 12V...24V, 48: AC/DC 48V, 230: AC 110V...415V/DC 110V...130V | | | | |

Main Technical Parameter

| Type | B3SH/24 | B3SH/48 | B3SH/230 |
|--------------------------|--|------------|-------------------------------------|
| Rated control voltage | AC/DC: 12V...24V | AC/DC: 48V | AC: 110V...415V DC: 110 V...130V |
| Maximum tripping time | $\leq 10\text{ms}$ | | |
| Minimum tripping voltage | 4.2V | 16.8V | 38.5V |
| Coil resistance | 4.8Ω | 72Ω | 400Ω |
| Action characteristics | Any voltage between 35% and 110% U_e (rated working voltage) can OFF the circuit breaker | | |
| Wiring diagram |  | | |
| Mechanical endurance | 10000 cycles | | |
| Electrical endurance | 4000 cycles | | |
| Dimensions(L×H×W) | 80mm×76mm×18mm | | |
| Weight | 78g | | |

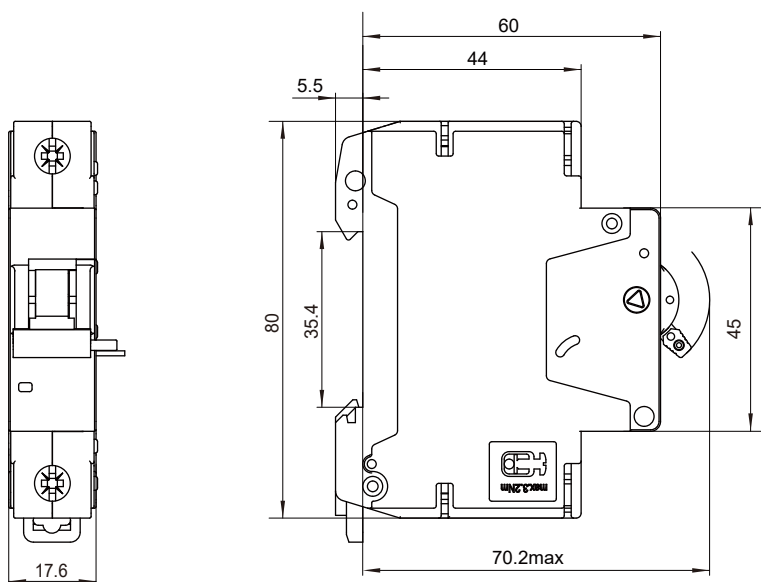
Wiring Capability

Press wiring, connection to 1mm²...25mm²wire.

| Terminal screw specification | Rated torque | Max torque | Solid/Rigid wire | Flexible/Stranded copper wire |
|------------------------------|--------------|------------|---------------------------------------|---------------------------------------|
| M5 | 2.0 N·m | 3.2N·m | 1mm ² ...25mm ² | 1mm ² ...25mm ² |

Dimensions

Unit: mm



Note: For width dimensions, the unmarked tolerance is ± 0.4 , for other dimensions, the unmarked tolerance is ± 1 .

Selection Table

| Type | Note |
|----------|-------------------------------------|
| B3SH/24 | AC/DC: 12V...24V |
| B3SH/48 | AC/DC: 48V |
| B3SH/230 | AC: 110V...415V DC: 110 V...130V |

Note: This accessory is applicable to UEB3-63, UEB6-63, UEB3-40, UEB6-40, UEB3L-63, UEB3L-40 series products.

Under-voltage, over-voltage, over-voltage and Under-voltage release



Production Overview

Scope of Application

This series of circuit breaker electrical accessories are auxiliary functional components designed specifically for UEB3 or UEB6 series circuit breakers. In electrical circuits such as homes and buildings, different electrical accessories can be selected according to needs to be used in conjunction with UEB3 or UEB6 series circuit breakers to achieve Under-voltage, over-voltage, over-voltage and under-voltage protection, and other functions.

Standard

GB/T 14048.1 Low Voltage Switchgear and Control Equipment - Part 1: General


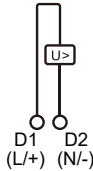
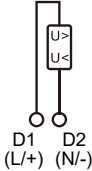
Standard Operation And Installation Conditions

- Operating temperature range: $-30^{\circ}\text{C} \dots +70^{\circ}\text{C}$
- Altitude: $< 2000\text{m}$
- Environmental conditions: There should be no medium that causes explosion hazards, no harmful gases or conductive dust that corrode and damage insulation
- Mounting conditions: 35mm DIN rail, the inclination between the installation surface and the vertical surface shall not exceed $\pm 5^{\circ}$.

Ordering Information

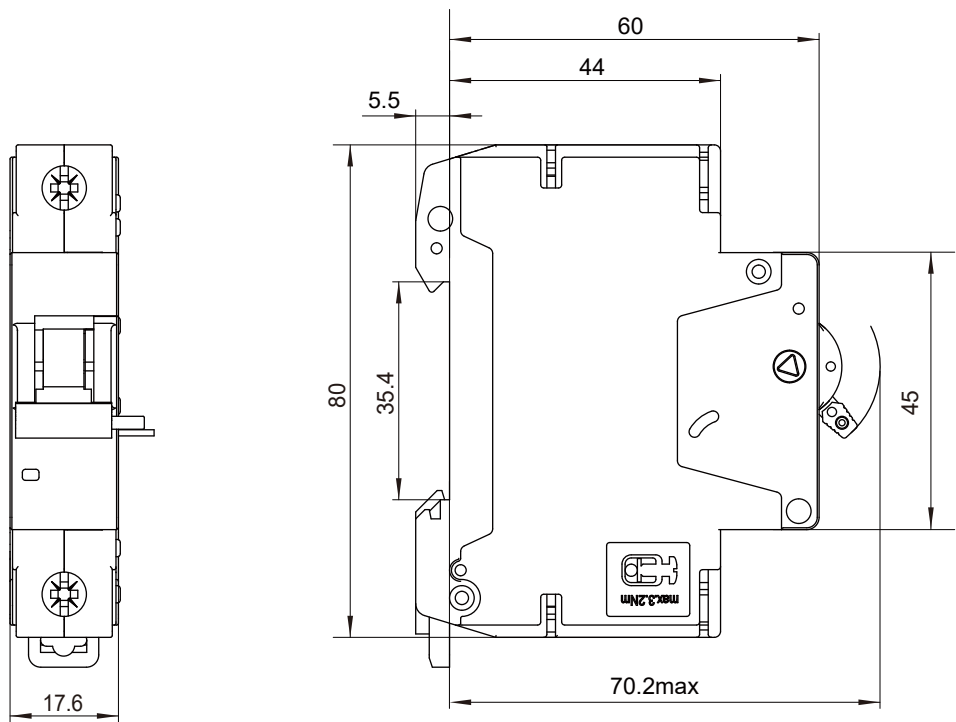
| | | | | | | | |
|---|--|--|--|----------|----------|-----------|-------------|
| | | | | B | 3 | UV | /230 |
| Product code: MCB | | | | | | | |
| Design serial number: 6 | | | | | | | |
| Attachment type: UV: Under-voltage release; OV: over-voltage release; OU: over-voltage and Under-voltage release | | | | | | | |
| Rated voltage: 230: AC 230V | | | | | | | |

Main Technical Parameter

| Code of accessories | B3UV/230 | B3OV/230 | B3OU/230 |
|---------------------------|---|---|---|
| Rated operational voltage | AC:230V | | |
| Operating voltage | $0.35U_n \leq V \leq 0.7U_n$ | $280V \pm 5\%$ | Under-voltage: $0.35U_n \leq V \leq 0.7U_n$; over-voltage: $280V \pm 5\%$ |
| Wiring diagram |  |  |  |
| Frequency | 50/60 Hz | | |
| Coil resistance | 400Ω | | |
| Mechanical endurance | 10000 | | |
| Electrical endurance | 4000 | | |
| Dimensions(L×H×W) | 80mm×76mm×18mm | | |
| Weight (g) | 85 | | |

Dimensions

Unit: mm



Note: For width dimensions,the unmarked tolerance is±0.4, for other dimensions, the unmarked tolerance is ±1.

Selection Table

| Type | Note |
|----------|---------------------------------------|
| B3UV/230 | Under-voltage release |
| B3OV/230 | Over-voltage release |
| B3OU/230 | Overvoltage and Under-voltage release |

Note: This accessory is applicable to UEB3-63, UEB6-63, UEB3-40, UEB6-40, UEB3L-63, UEB3L-40 series products.

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