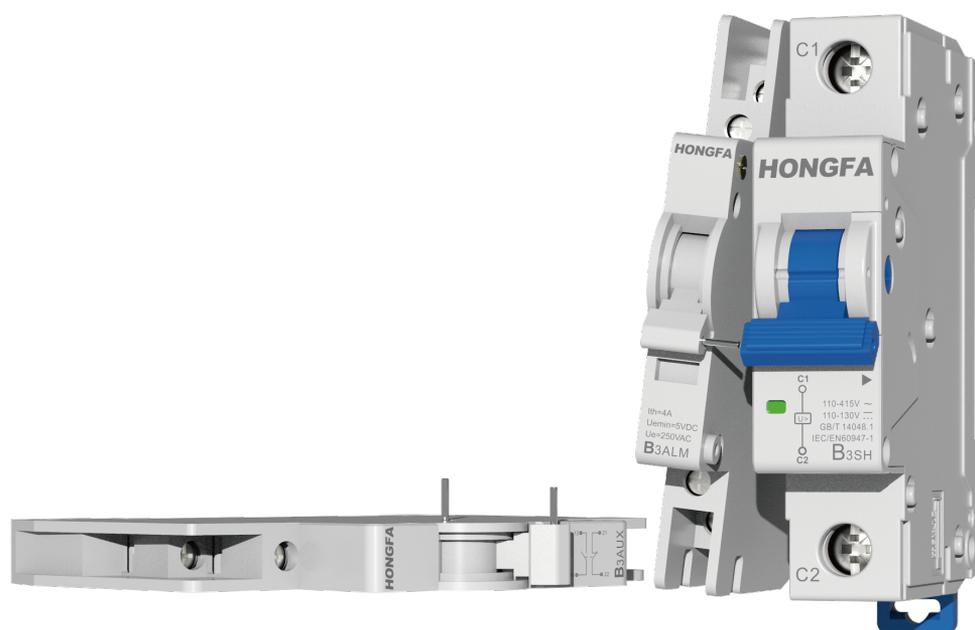


Accessories Specification

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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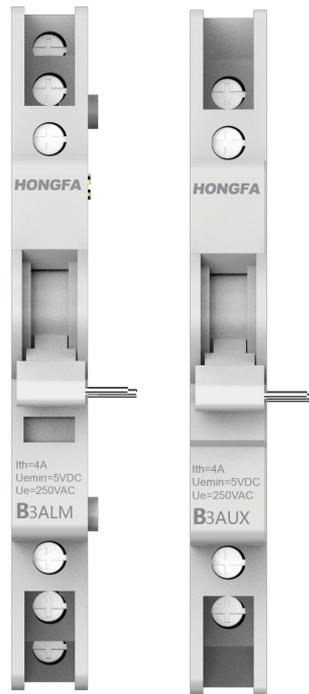
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Auxiliary Contact, Alarm Contact



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
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Standard Operation And Installation Conditions

- Operating temperature range: -35 °C...+70 °C

- Altitude < 2000m

- 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

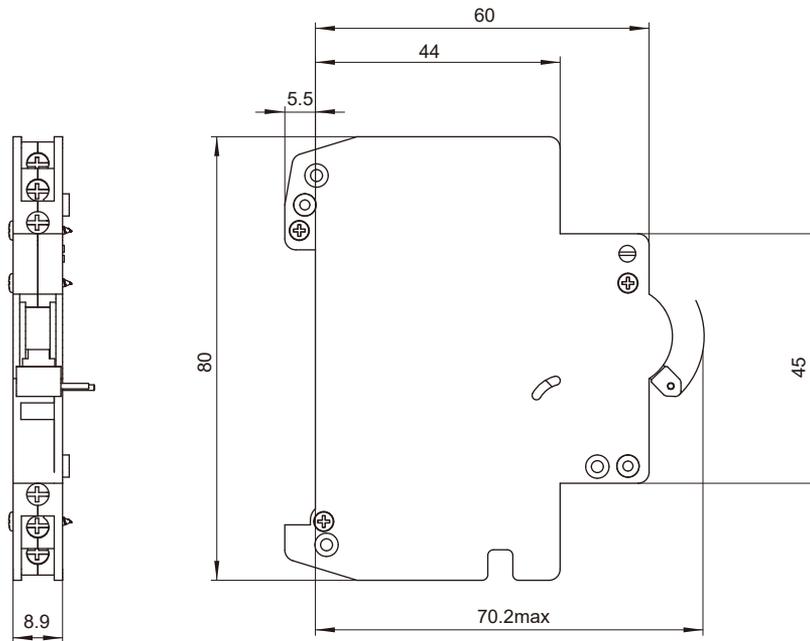
Model	B3AUX/ B3ALM
Contact breaking capacity	AC13: I _e =3A ; U _e =250V AC15: I _e =2A ; U _e =250V DC12: I _e =0.5A ; U _e =110V
Minimum operating voltage	5V
Minimum operating current	10mA
Rated insulation voltage	500V
Rated limiting short-circuit current I _k	1000A
Agreed heating current I _{th}	4A
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 .

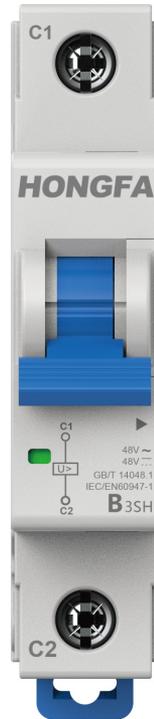
Selection Table

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	4.8 Ω	72 Ω	400 Ω
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		

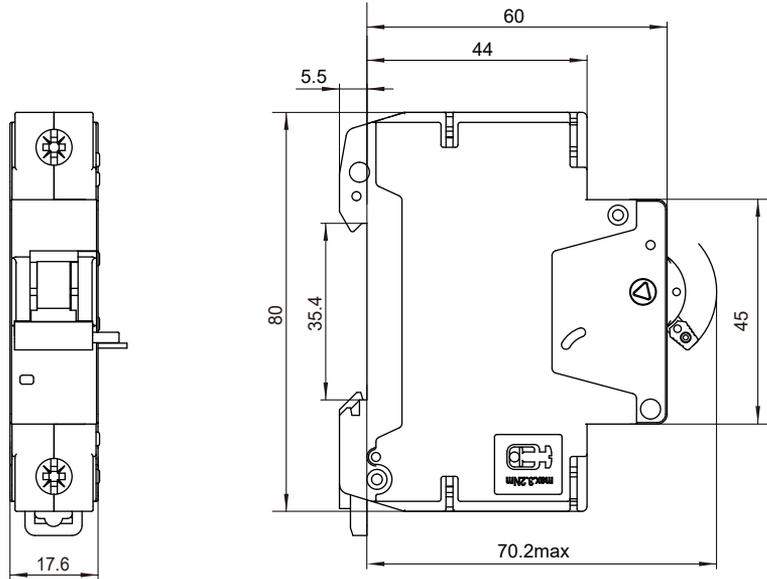
Wiring Capability

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



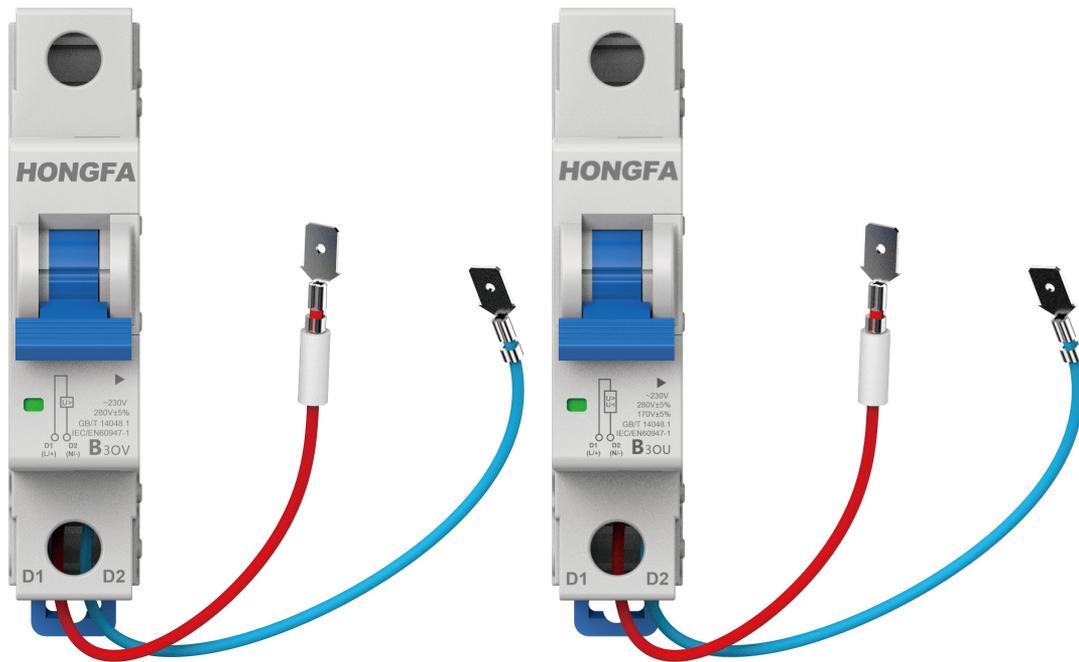
Note: For width dimensions, the unmarked tolerance is ± 0.4 , for other dimensions, the unmarked tolerance is ± 1 .

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

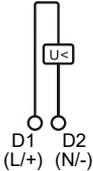
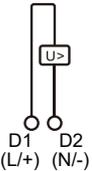
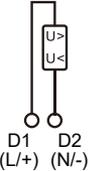
Standard Operation And Installation Conditions

- Operating temperature range: $-30\text{ C} \dots +70\text{ C}$
- 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

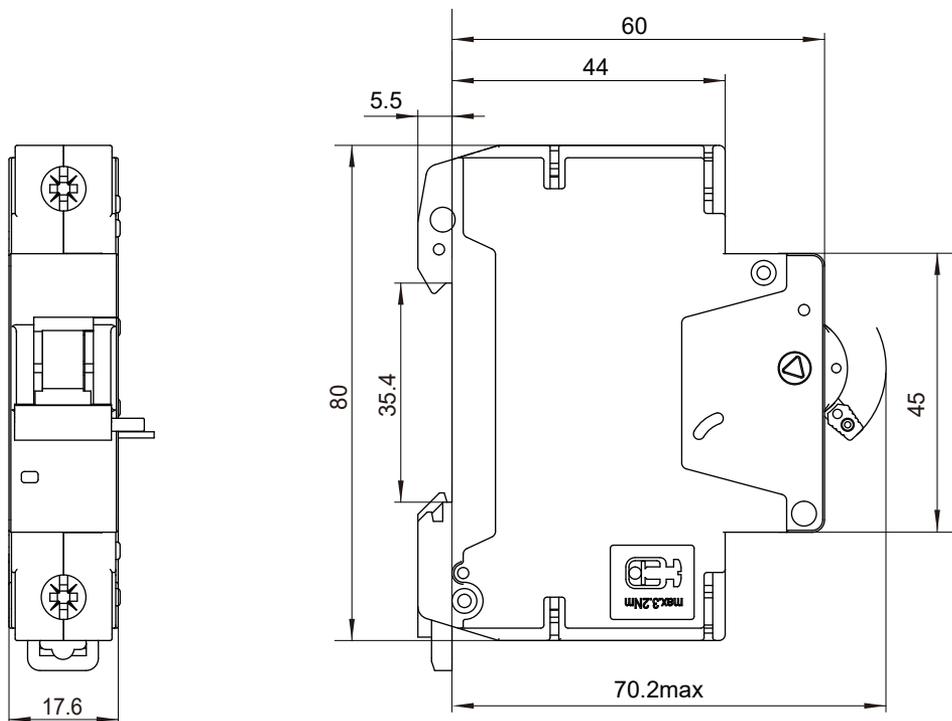
Product code: MCB	B	3	UV	/230
Design serial number: 6				
Attachment type: UV: Under-voltage release; OV: over-voltage release; OU: over-voltage and Under-voltage release				
Rated voltage: 230: AC 230V				

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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