

# CHAC

## FB2 Series Miniature Circuit Breaker

PRODUCT CATALOG



## ZHEJIANG CHUANGQI ELECTRIC CO.,LTD.

- Wenzhou Base  
No. 18, Shahong Road, Beibaixiang Town, Yueqing City, Wenzhou, Zhejiang Province, China
- Jiaxing Base  
No. 61, Zhengyang West Road, Xiuzhou District, Jiaxing, Zhejiang Province, China
- 0577-27878806
- marketing@chac-en.com
- www.chac-electric.com



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WEBSITE

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# FB2-63

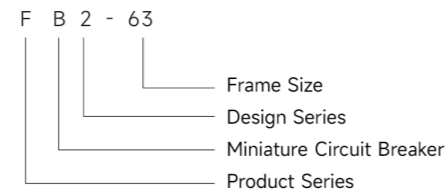
## Miniature Circuit Breaker



### Product Features

- Enhanced Arc Extinguishing**  
 Utilizes a 13-grid arc chute combined with a superimposed arc starter to rapidly improve arc extinguishing capability and breaking performance.
- Safe and Reliable Connection**  
 Features large wiring terminals with an anti-misinsertion design, ensuring secure connections and preventing loose wires.
- Robust Circuit Protection**  
 Provides reliable overload and short-circuit protection with a rated breaking capacity of 6kA, complying with IEC 60898-1 standards.

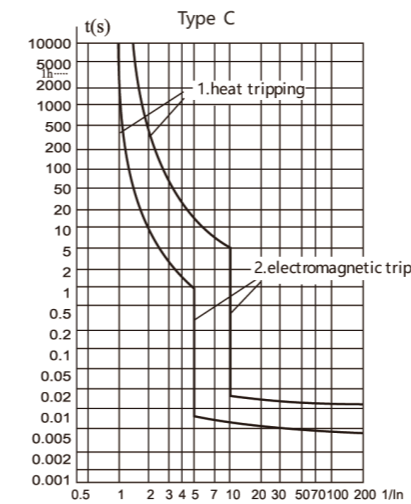
### Type designation



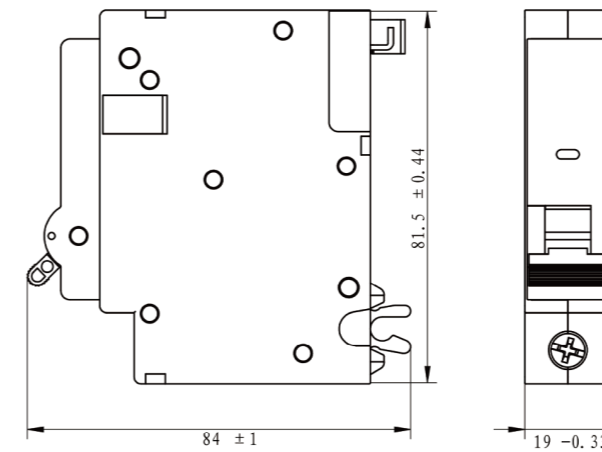
### Technical Specifications

Parameter	
Bracket rating current	63A
Number of poles	1P, 2P
Feature	Overload and short circuit protection
Rated frequency f(HZ)	50/60Hz
Rated operating voltage Ue(V AC)	240V ~
Rated current In(A)	10, 16, 20, 25, 32, 40, 50, 63A
Rated insulation voltage Ui(V)	500V
Rated impulse withstand voltage Uimp(kV)	4kV
Rated operating short-circuit breaking capacity (kA)	6kA
Rated limit short-circuit breaking capacity (kA)	6kA
Current limiting class	3
Instantaneous trip characteristics	Electromagnetic type
Trip type	C
Electrical service life	4000 times
Service life of machinery	10000 times
Class of protection	IP20
Wiring capability (mm <sup>2</sup> )	1 to 16mm <sup>2</sup>
Ambient temperature (daily average temperature °C)	35 °C or less
Storage temperature	-25°C to +55°C
Types of climate protection	Damp-heat type
Altitude (m)	≤2000m
Relative humidity of air	50% ~ 90%
Pollution level	2
Installation environment	/
Installation category	II or III
Installation mode	plug-in
Meet the standard	IEC 60898-1

### Tripping curves



### Dimensions(mm)



### Ordering Specification

- Product Model: FB2-63
  - Number of Poles: 1P, 2P
  - Tripping Curve & Rated Current: [e.g.: C/32A]
    - Tripping Curve: C
    - Rated Current (In): 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
  - Quantity: [e.g.: 100 pcs]
- Ordering Example:  
FB2-63 2P C/32A 100 pcs

# FB2H-63

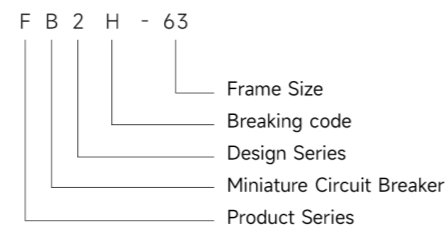
## Miniature Circuit Breaker



### Product Features

- Enhanced Arc Extinguishing**  
 Utilizes a 13-grid arc chute combined with a superimposed arc starter to rapidly improve arc extinguishing capability and breaking performance.
- Safe and Reliable Connection**  
 Features large wiring terminals with an anti-misinsertion design, ensuring secure connections and preventing loose wires.
- Wide Application Adaptability**  
 Designed for plug-in installation with IP20 protection class, suitable for environments up to 2000m altitude and ambient temperature  $\leq 35^{\circ}\text{C}$ .

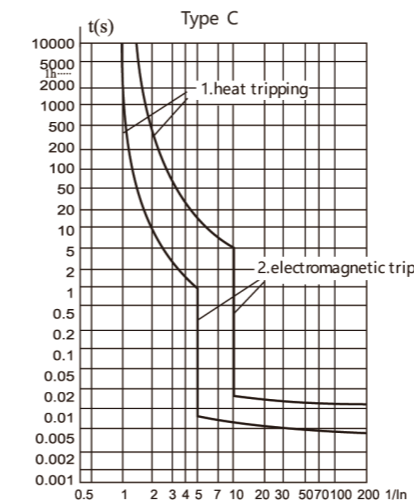
### Type designation



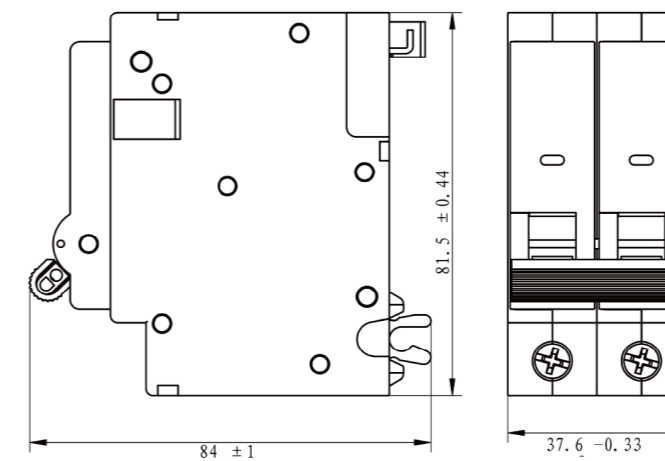
### Technical Specifications

Parameter	
Bracket rating current	63A
Number of poles	1P, 2P
Feature	Overload and short circuit protection
Rated frequency f(HZ)	50/60Hz
Rated operating voltage Ue(V AC)	240V ~
Rated current In(A)	10, 16, 20, 25, 32, 40, 50, 63A
Rated insulation voltage Ui(V)	500V
Rated impulse withstand voltage Uimp(kV)	4kV
Rated operating short-circuit breaking capacity (kA)	7.5 kA
Rated limit short-circuit breaking capacity (kA)	10kA
Current limiting class	3
Instantaneous trip characteristics	Electromagnetic type
Trip type	C
Electrical service life	4000 times
Service life of machinery	10000 times
Class of protection	IP20
Wiring capability (mm <sup>2</sup> )	1 to 25mm <sup>2</sup>
Ambient temperature (daily average temperature °C)	35 °C or less
Storage temperature	-25°C to +55°C
Types of climate protection	Damp-heat type
Altitude (m)	$\leq 2000\text{m}$
Relative humidity of air	50% ~ 90%
Pollution level	2
Installation environment	/
Installation category	II or III
Installation mode	plug-in
Meet the standard	IEC 60898-1

### Tripping curves



### Dimensions(mm)



### Ordering Specification

- Product Model: FB2H-63
  - Number of Poles: 1P, 2P
  - Tripping Curve & Rated Current: [e.g.: C/32A]
    - Tripping Curve: C (Electromagnetic)
    - Rated Current ( $I_n$ ): 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
  - Quantity: [e.g.: 100 pcs]
- Ordering Example:  
FB2H-63 2P C/32A 100 pcs

# FB2L-63

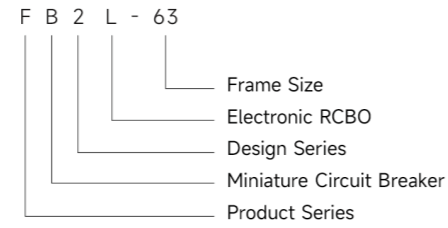
Residual Current Circuit Breaker with Overcurrent Protection - Electromagnetic Type



## Product Features

- Compact Space-Saving Design  
Features small size for efficient use of distribution box space while maintaining full functionality.
- Safe Wiring System  
Equipped with anti-misinsertion terminal design and small wiring ports to prevent incorrect cable connections.
- Wide Application Compatibility  
Suitable for various environments (up to 2000m altitude, -25°C to +55°C storage temperature) with IP20 protection and plug-in installation.

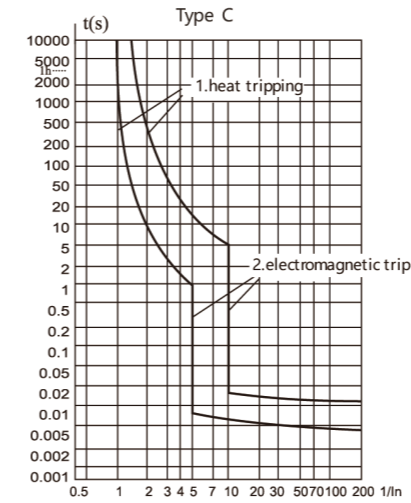
## Type designation



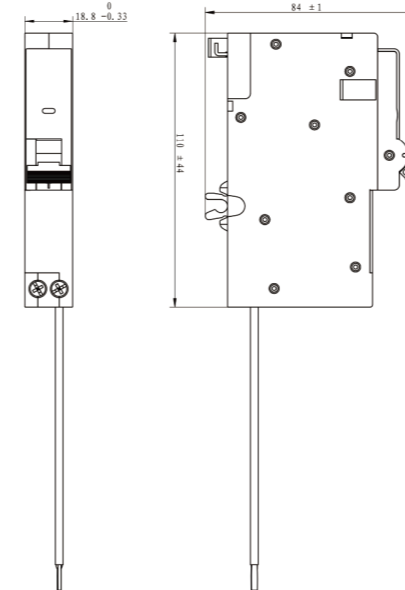
## Technical Specifications

Parameter	
Bracket rating current	50A
Number of poles	1P+N
Feature	Overload and short circuit protection
Rated frequency f(HZ)	50/60Hz
Leakage trip mode	Electronic formula
Leakage type	Type AC
Rated operating voltage Ue(V AC)	240V ~
Rated current In(A)	10, 16, 20, 25, 32, 40, 50A
Rated insulation voltage Ui(V)	500V
Rated impulse withstand voltage Uimp(kA)	4kV
Rated residual current IΔn	30mA
Rated remaining making and breaking capacity IΔm	2000A
Rated operating short-circuit breaking capacity (kA)	6kA
Rated limit short-circuit breaking capacity (kA)	6kA
Current limiting class	3
Instantaneous trip characteristics	Electromagnetic type
Trip type	C
Electrical service life	4000 times
Service life of machinery	10000 times
Class of protection	IP20
Wiring capability (mm <sup>2</sup> )	1 to 16mm <sup>2</sup>
Ambient temperature (daily average)	35 °C or less
Storage temperature	-25°C to +55°C
Types of climate protection	Damp-heat type
Altitude (m)	≤2000m
Relative humidity of air	50% ~ 90%
Pollution level	2
Installation environment	B
Installation category	II or III
Installation mode	plug-in
Meet the standard	IEC 61009-1

## Tripping curves



## Dimensions(mm)



## Ordering Specification

- 1.Product Model: FB2L-63
  - 2.Number of Poles: 1P+N
  - 3.Rated Current: [e.g.: 32A]
    - Rated Current (In): 10A, 16A, 20A, 25A, 32A, 40A, 50A
  - 4.Residual Operating Current: 30mA
  - 5.Quantity: [e.g.: 100 pcs]
- Ordering Example:  
FB2L-63 1P+N 32A 30mA 100 pcs

# FB2HL-63

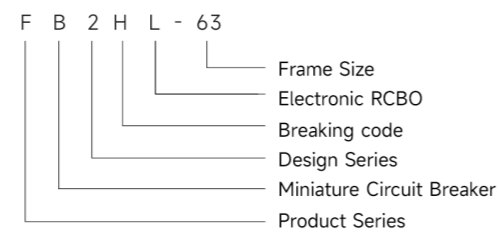
Residual Current Circuit Breaker with Overcurrent Protection - Electromagnetic Type



## Product Features

- **Compact Space-Saving Design**  
Features small dimensions for efficient use of distribution box space while maintaining full functionality.
- **Dual Protection Performance**  
Combines overload/short-circuit protection (7.5kA operational/10kA limit breaking capacity) with earth fault protection
- **User-Friendly Design**  
Test button for regular safety checks and large wiring terminals with anti-misinsertion design

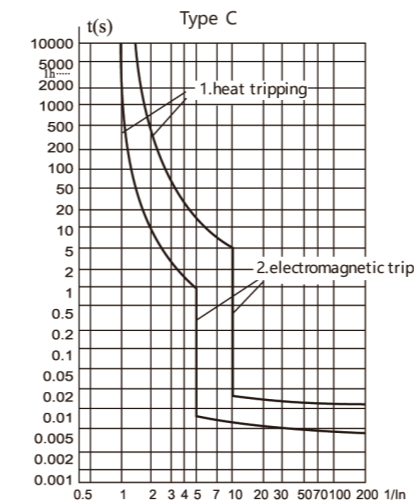
## Type designation



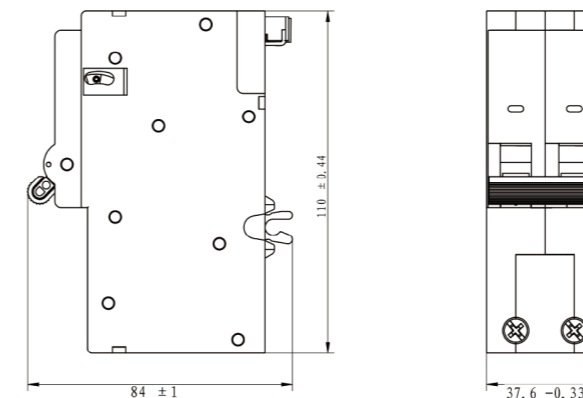
## Technical Specifications

Parameter	
Bracket rating current	50/63A
Number of poles	1P+N/2P
Feature	Overload and short circuit protection
Rated frequency f(HZ)	50/60Hz
Leakage trip mode	Electronic formula
Leakage type	Type AC
Rated operating voltage Ue(V AC)	240V ~
Rated current In(A)	10, 16, 20, 25, 32, 40, 50, 63A
Rated insulation voltage Ui(V)	500V
Rated impulse withstand voltage Uimp(kA)	4kV
Rated residual current IΔn	30mA
Rated remaining making and breaking capacity IΔm	2000A
Rated operating short-circuit breaking capacity (kA)	7.5 kA
Rated limit short-circuit breaking capacity (kA)	10kA
Current limiting class	3
Instantaneous trip characteristics	Electromagnetic type
Trip type	C
Electrical service life	4000 times
Service life of machinery	10000 times
Class of protection	IP20
Wiring capability (mm <sup>2</sup> )	1 to 25mm <sup>2</sup>
Ambient temperature (daily average)	35 °C or less
Storage temperature	-25°C to +55°C
Types of climate protection	Damp-heat type
Altitude (m)	≤2000m
Relative humidity of air	50% ~ 90%
Pollution level	2
Installation environment	B
Installation category	II or III
Installation mode	plug-in
Meet the standard	IEC 61009-1

## Tripping curves



## Dimensions(mm)



## Ordering Specification

- 1.Product Model: FB2HL-63
  - 2.Number of Poles: 1P+N or 2P
  - 3.Rated Current: [e.g.: 32A]
    - Rated Current (In): 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
  - 4.Residual Operating Current: 30mA
  - 5.Quantity: [e.g.: 100 pcs]
- Ordering Example:  
FB2HL-63 1P+N 32A 30mA 100 pcs