

# CHAC

## CQB3 Series Miniature Circuit Breaker

PRODUCT CATALOG



### ZHEJIANG CHUANGQI ELECTRIC CO.,LTD.

🏠 WenzhouBase  
No.18,ShahongRoad,BeibaixiangTown,YueqingCity,Wenzhou,ZhejiangProvince,China

🏠 JiaxingBase  
No.61,ZhengyangWestRoad,XiuzhouDistrict,Jiaxing,ZhejiangProvince,China

☎ 0577-27878806

✉ marketing@chac-en.com

🌐 www.chac-electric.com



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# CQB3-63

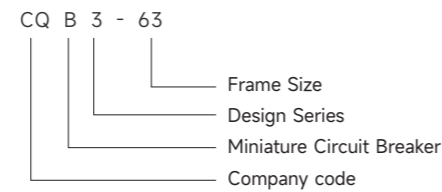
## Miniature Circuit Breaker



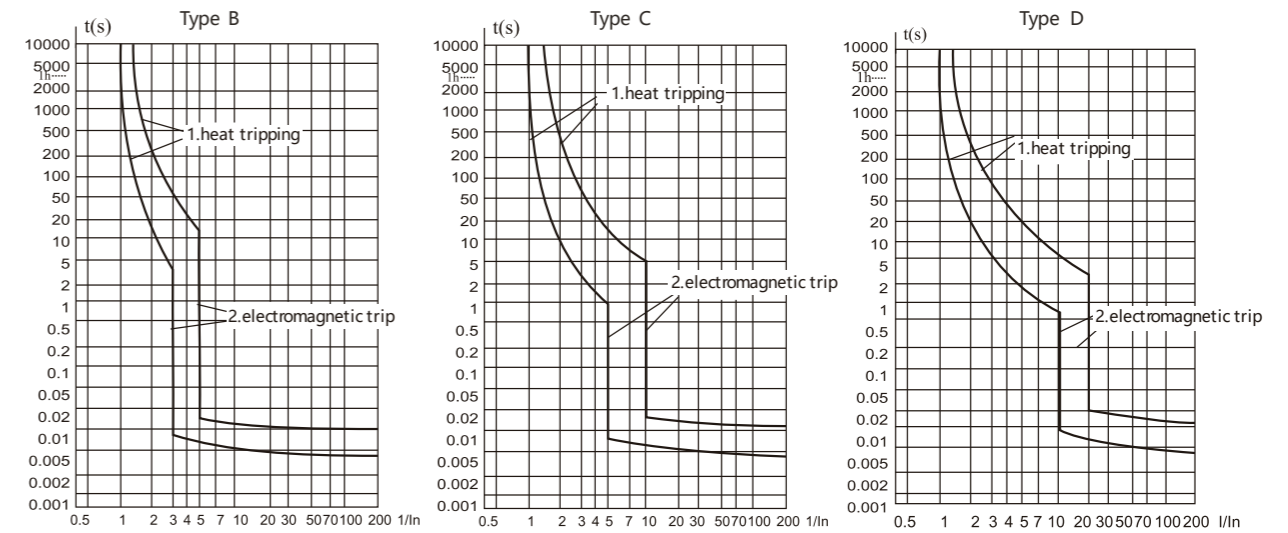
### Product Features

- High Breaking Capacity  
6kA short-circuit protection rating ensures reliable circuit interruption under fault conditions
- Wide Current Range  
6-63A ratings with B/C/D tripping characteristics for residential and commercial applications
- Long Service Life  
≥10,000 mechanical operations and ≥6,000 electrical operations

### Type designation



### Tripping curves



### Technical Specifications

Parameter	
Rated Insulation Voltage (Ui)	500V
Rated Impulse Withstand Voltage (Uimp)	4000V
Rated Current (In)	6, 10, 16, 20, 25, 32, 40, 50, 63
Rated Frequency	50Hz / 60Hz
Number of Poles	1P, 1P+N, 2P, 3P, 3P+N, 4P
Rated Breaking Capacity (Icn)	6000A
Mechanical Life & Electrical Life	Mechanical≥10000, Electrical≥6000
Tripping Curves	B, C, D
Mounting Rail	45mm
Degree of Protection (IP Code)	IP20
Applicable Standards	IEC60898-1, GB/ T10963.1
Certification	CCC

### Tripping characteristics (Reference temperature 30°C)

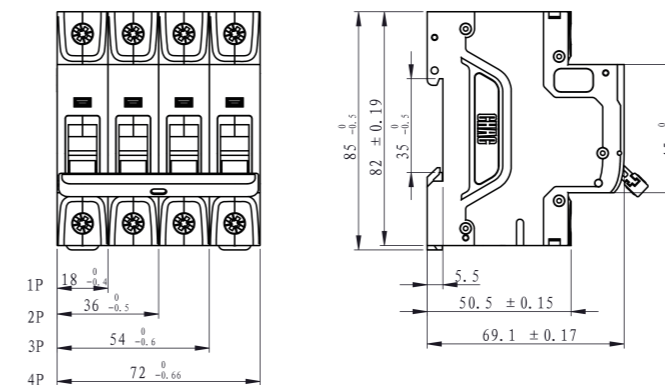
Item	Tripping Curve	Test current In(A)	Initial Status	Time limit for tripping or non-tripping	Expected result	Remarks
a	B, C, D	1.13In	Cold	$t \leq 1h$	Non-tripping	Current smoothly rises to specified value within 5s
b	B, C, D	1.45In	Following item a test	$t < 1h$	Tripping	
c	B, C, D	2.55In	Cold	$1s < t < 60s$ ( $I_n \leq 32A$ ) $1s < t < 120s$ ( $I_n > 32A$ )	Tripping	
d	B	3In	Cold	$t \leq 0.1s$	Non-tripping	Switch on the power supply by closing the auxiliary switch
	D	10In				
e	B	5In	Cold	$t < 0.1s$	Tripping	Switch on the power supply by closing the auxiliary switch
	D	20In				

Note: The term "cold" means that the test is carried out at a reference calibration temperature without load before the test.

### Conductor requirements and cross section

Copper cross-section(mm <sup>2</sup> )	Rated current In(A)
1	$I_n \leq 6$
1.5	$6 < I_n \leq 13$
2.5	$13 < I_n \leq 20$
4	$20 < I_n \leq 25$
6	$25 < I_n \leq 32$
10	$32 < I_n \leq 50$
16	$50 < I_n \leq 63$

### Dimensions(mm)



### Ordering Specification

- 1.Product Model: CQB3-63
  - 2.Number of Poles: 1P, 1P+N, 2P, 3P, 3P+N,4P
  - 3.Rated Current & Tripping Curve: [e.g.: C/32A]
    - Tripping Curve: B, C, D
    - Rated Current (In): 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
  - 4.Quantity: [e.g.: 100 pcs]
- Ordering Example:  
CQB3-63 2P C/32A 100 pcs

# CQB3LE-63

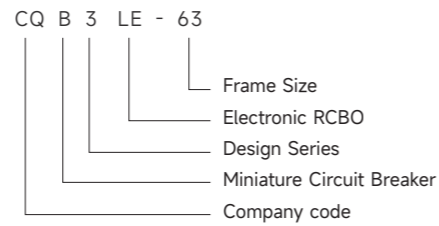
Residual Current Circuit Breaker with Overcurrent Protection - Electronic Type



## Product Features

- Earth Leakage Protection  
30/50/100/300mA sensitivity options provide personal protection against electric shock
- Dual Protection Function  
Combines overload/short-circuit protection with earth leakage protection
- Fast Response  
≤0.1s tripping time for quick fault circuit interruption
- Flexible Configurations  
1P+N, 2P, 3P, 3P+N and 4P versions available

## Type designation



## Technical Specifications

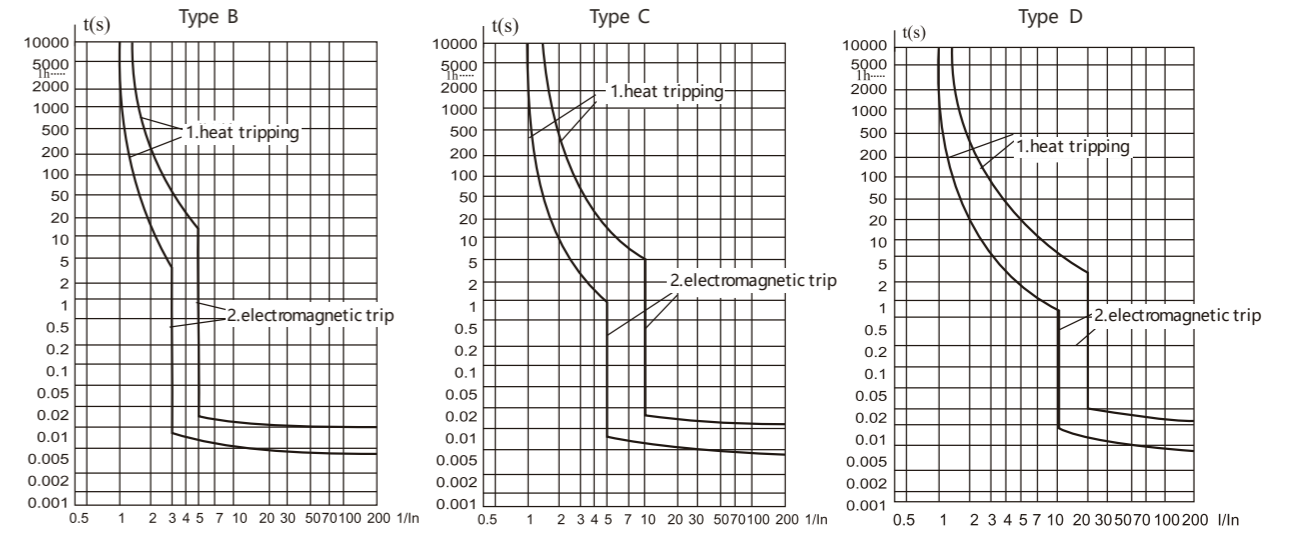
Parameter	
Rated voltage	230V~ (2P, 1P+N) / 400V~ (3P, 4P, 3P+N)
Rated current	6, 10, 16, 20, 25, 32, 40, 50, 63 A
Number of Poles	2P, 3P, 4P, 1P+N, 3P+N
Rated breaking capacity (I <sub>cn</sub> = I <sub>cs</sub> )	6000 A
Rated residual operating current (I <sub>Δn</sub> )	30, 50, 100, 300 mA
Rated residual non-operating current	0.5 I <sub>Δn</sub>
Rated residual making and breaking capacity	2000 A
Tripping time	≤ 0.1 s
Mechanical life	4000 operations
Electrical life	4000 operations
Tripping curves	B, C, D
Degree of protection	IP20
Overvoltage category	III
Standards	IEC 61009-1, GB/T 16917.1
Certification	CCC

## Tripping characteristics (Reference temperature 30°C)

Item	Tripping Curve	Test current I <sub>n</sub> (A)	Initial Status	Time limit for tripping or non-tripping	Expected result	Remarks
Delay	≤63	Cold	1.13I <sub>n</sub>	≤1h	Non-tripping	
Delay	≤63	Following previous test	1.45I <sub>n</sub>	<1h	Tripping	Current smoothly rises to specified value in 5s
Delay	≤32	Cold	2.55I <sub>n</sub>	1<t<60s	Tripping	
Delay	>32	Cold	2.55I <sub>n</sub>	1<t<120s	Tripping	
Instantaneous	Any value	Cold	3, 5, 10I <sub>n</sub>	≤0.1s	Non-tripping	B, C, D
Instantaneous	Any value	Cold	5, 10, 20I <sub>n</sub>	<0.1s	Tripping	B, C, D

Note: The term "cold" means that the test is carried out at a reference calibration temperature without load before the test.

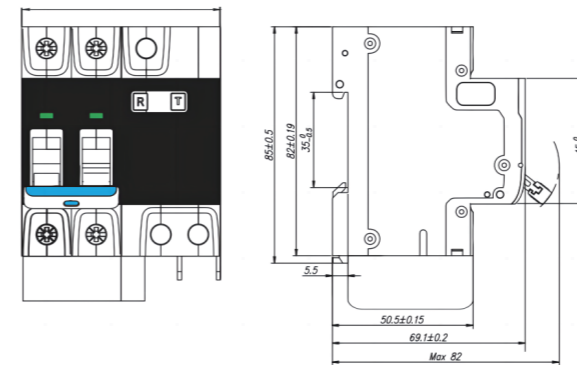
## Tripping curves



## Conductor requirements and cross section

Copper cross-section(mm <sup>2</sup> )	Rated current I <sub>n</sub> (A)
1	I <sub>n</sub> ≤6
1.5	6 < I <sub>n</sub> ≤13
2.5	13 < I <sub>n</sub> ≤20
4	20 < I <sub>n</sub> ≤25
6	25 < I <sub>n</sub> ≤32
10	32 < I <sub>n</sub> ≤50
16	50 < I <sub>n</sub> ≤63

## Dimensions(mm)



Poles	L
1P+N	53.4
2P	71.2
3P	102.4
3P+N	115.8
4P	133.6

## Ordering Specification

- 1.Product Model: CQB3LE-63
  - 2.Number of Poles: 1P+N, 2P, 3P, 3P+N, 4P
  - 3.Rated Current & Tripping Curve: [e.g.: C/32A]
    - Tripping Curve: B, C, D
    - Rated Current (I<sub>n</sub>): 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
  - 4.Rated Residual Operating Current (I<sub>Δn</sub>): 30mA, 50mA, 100mA, 300mA
  - 5.Quantity: [e.g.: 100 pcs]
- Ordering Example:  
CQB3LE-63 2P C/32A 30mA 100 pcs

# CQB3Ln-63

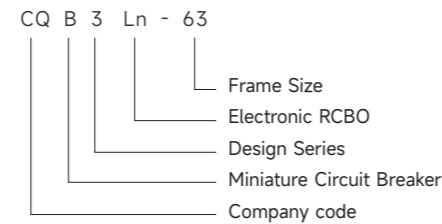
Residual Current Circuit Breaker with Overcurrent Protection - Electronic Type



## Product Features

- Earth Leakage Protection  
30/50/100/300mA sensitivity options provide personal protection against electric shock
- Dual Protection Function  
Combines overload/short-circuit protection with earth leakage protection
- Fast Response  
≤0.1s tripping time for quick fault circuit interruption
- Flexible Configurations  
1P+N, 2P, 3P, 3P+N and 4P versions available

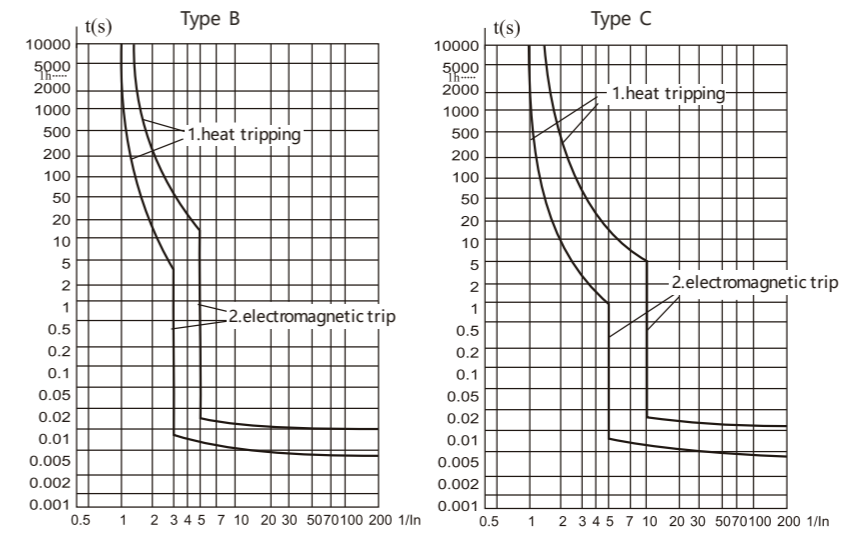
## Type designation



## Technical Specifications

Parameter	
Rated Current (In)	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
Rated Voltage	230V~
Rated Frequency	50/60Hz
Rated Breaking Capacity	6kA
Tripping Type	Thermal-magnetic (for overload and short-circuit)
Residual Current Operating Characteristic	AC, A
Rated Residual Operating Current ((IΔn)	30mA
Rated Residual Non-Operating Current ((IΔno)	15mA
Instantaneous Tripping Type	B, C
Number of Poles	1P+N
Rated Impulse Withstand Voltage (Uimp)	4kV (1.2/50 μs wave)
Power Frequency Withstand Voltage Test	2kV for 1 minute
Thermal Tripping Characteristic	(1.13-1.45) x In
Magnetic Tripping Characteristic	B: (3-5) x In, C: (5-10) x In
Electrical Endurance	6,000 cycles
Mechanical Endurance	10,000 cycles
Contact Position Indicator	Yes
Degree of Protection	IP20
Ambient Temperature	-25°C to +40°C, max. humidity 95%
Maximum Cable Terminal Size	16mm <sup>2</sup>
Maximum Tightening Torque	2.5 N.m
Mounting Method	Mounts on 35mm DIN rail
Standard	IEC/EN 61009-1

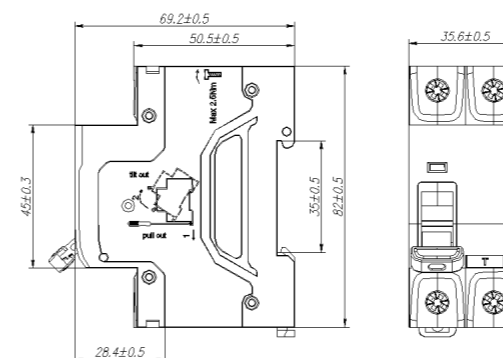
## Tripping curves



## Conductor requirements and cross section

Copper cross-section(mm <sup>2</sup> )	Rated current In(A)
1	In≤6
1.5	6 < In≤13
2.5	13 < In≤20
4	20 < In≤25
6	25 < In≤32
10	32 < In≤50
16	50 < In≤63

## Dimensions(mm)



## Ordering Specification

- 1.Product Model: CQB3Ln-63
  - 2.Number of Poles: 1P+N,
  - 3.Rated Current & Tripping Curve: [e.g.: C/32A]
    - Tripping Curve: B, C,
    - Rated Current (In): 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
  - 4.Rated Residual Operating Current (IΔn): 30mA,
  - 5.Quantity: [e.g.: 100 pcs]
- Ordering Example:  
CQB3Ln-63 1P+N C/32A 30mA 100 pcs

# CQB3GQ-80

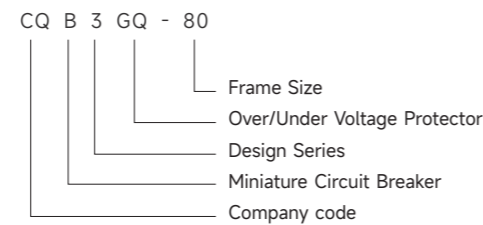
## Self-restoring Over-under Voltage Protector



### Product Features

- **Wide Application Range**  
Suitable for single-phase AC 230V, 50Hz systems with rated current up to 80A, protecting against neutral line faults.
- **Automatic Recovery Function**  
Automatically reconnects circuit within specified time (30s±10s) when voltage returns to normal, ensuring continuous operation without manual intervention.
- **Intelligent Voltage Protection**  
Utilizes high-speed micro low-power processor and magic holding relay to quickly cut off power during over/undervoltage conditions, preventing damage to terminal equipment.

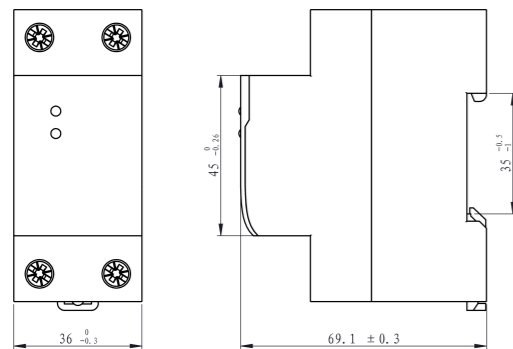
### Type designation



### Technical Specifications

Parameter	
Rated Voltage	AC 230V
Rated Frequency	50 Hz
Rated Current	40A, 63A, 80A
Poles	1P+N
Overvoltage Tripping Value	AC 270V±5V
Undervoltage Tripping Value	AC 170V±5V
Delay Time	30s±10s
Mechanical & Electrical Life	≥100,000 operations
Terminal Torque	2-3 Nm
Pollution Degree	Level 2
Degree of Protection	IP20
Standard	JB/T12762

### Dimensions(mm)



### Ordering Specification

- 1.Product Model: CQB3GQ-80
  - 2.Number of Poles: 1P+N
  - 3.Rated Current: 40A, 63A, 80A
  - 4.Quantity: [e.g.: 100 pcs]
- Ordering Example:  
CQB3GQ-80 1P+N 63A 100 pcs

# ExS-T1T2-AC

## Surge Protective Device



### Product Features

- 10/350μs,8/20μs sparkgap
- Single-pole lightning current arrester, pluggable
- Adopt hermetical GDT technology, high follow current extinguishing capability
- Extremely low voltage protection level
- Double terminals for parallel or series(V-shape) connection
- Multifunctional connection for conductors and busbars
- Green window will change to red when fault occurs, also provide remote alarmterminal at the same time
- For using high-performance MOV and maximum will up to 10/350 7kA

### Technical Specifications

Parameter	
Rated voltage (max. continuous AC voltage)	275V or 385V
Lightning impulse current (10/350) [Iimp]	7 kA
Nominal discharge current (8/20) [In]	20 kA
Maximum discharge current [Imax]	50 kA
Voltage protection level [Up]	≤ 1.5 kV
Follow current extinguishing capability at Uc	32A fuse will not be triggered at 2kA...255V
Response time [t]	≤ 100 ns
Max. backup fuse (L)	200A gL/gG
Max. backup fuse (L-L')	125A gL/gG
TOV voltage	355V / 5sec
Operating temperature range (parallel wiring)	-40°C to +80°C
Operating temperature range (through wiring)	-40°C to +60°C
Terminal cross-sectional area	35 mm <sup>2</sup> solid / 50 mm <sup>2</sup> flexible
Mounting	on 35mm DIN rail
Enclosure material	Purple (module)/light gray (base) thermoplastic, UL94-V0
Dimension	2 modules
Type of remote signalling contact	Switching contact
Switching capacity AC	250V / 0.5A
Switching capacity DC	250V / 0.1A; 125V / 0.2A; 75V / 0.5A
Cross-sectional area for remote signalling contact	Max. 1.5 mm <sup>2</sup> solid/flexible
Standards	IEC 61643-11; GB 18802.1; YD/T 1235.1
Certification	CE, RoHS, ISO 9001, CQC, TUV

### Dimensions(mm)

