

CHAC

CQB3 Series Miniature Circuit Breaker

PRODUCT CATALOG



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WEBSITE

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CQB3-63

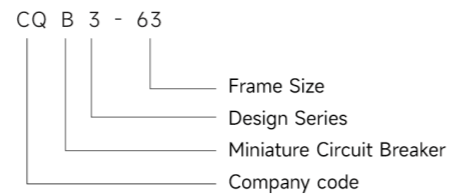
Miniature Circuit Breaker



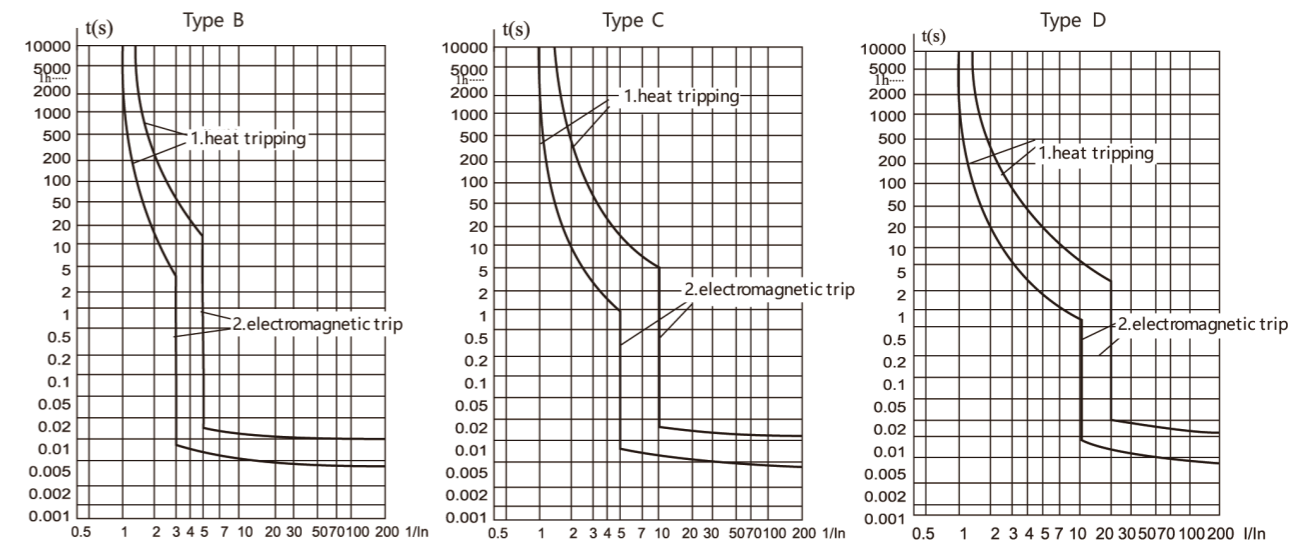
Product Features

- 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)

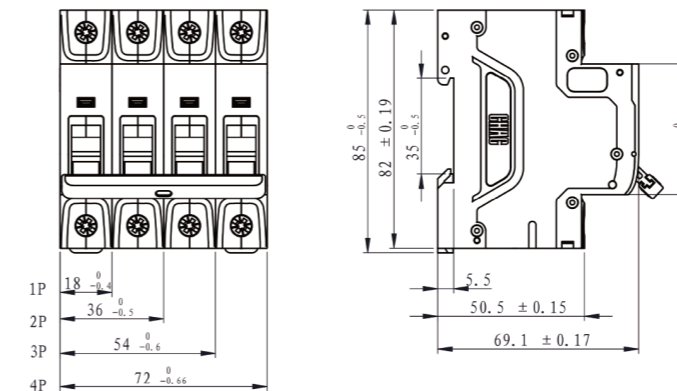
Item	Tripping Curve	Test current I _n (A)	Initial Status	Time limit for tripping or non-tripping	Expected result	Remarks
a	B, C, D	1.13I _n	Cold	t ≤ 1h	Non-tripping	Current smoothly rises to specified value within 5s
b	B, C, D	1.45I _n	Following item a test	t < 1h	Tripping	
c	B, C, D	2.55I _n	Cold	1s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

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 ²)	Rated current I _n (A)
1	I _n ≤ 6
1.5	6 < I _n ≤ 13
2.5	13 < I _n ≤ 20
4	20 < I _n ≤ 25
6	25 < I _n ≤ 32
10	32 < I _n ≤ 50
16	50 < I _n ≤ 63

Dimensions(mm)



Ordering Specification

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

CQB3LE-63

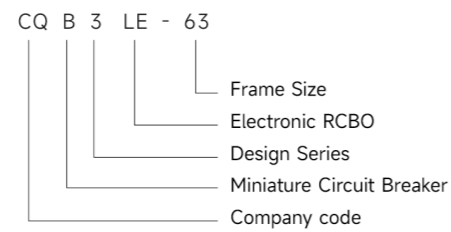
Residual Current Circuit Breaker with Overcurrent Protection - Electronic Type



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

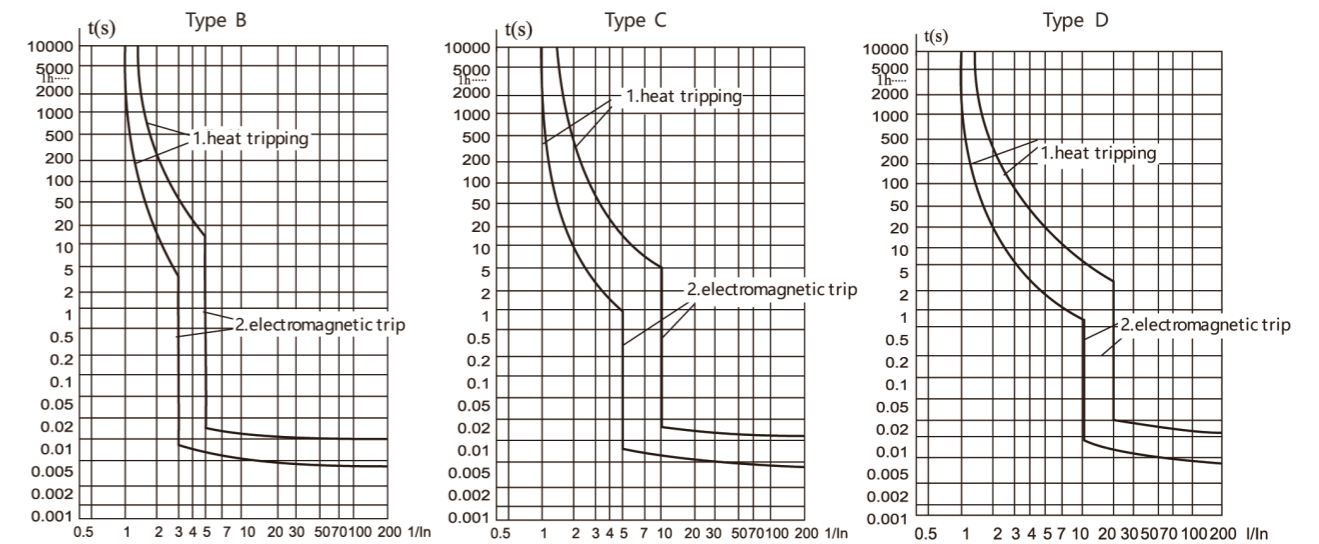
Parameter	
Rated voltage	230V~ (2P, 1P+N) / 400V~ (3P, 4P, 3P+N)
Rated current	6, 10, 16, 20, 25, 32, 40, 50, 63 A
Number of Poles	2P, 3P, 4P, 1P+N, 3P+N
Rated breaking capacity (I _{cn} = I _{cs})	6000 A
Rated residual operating current (I _{Δn})	30, 50, 100, 300 mA
Rated residual non-operating current	0.5 I _{Δn}
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
Overtoltage category	III
Standards	IEC 61009-1, GB/T 16917.1
Certification	CCC

Tripping characteristics (Reference temperature 30°C)

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

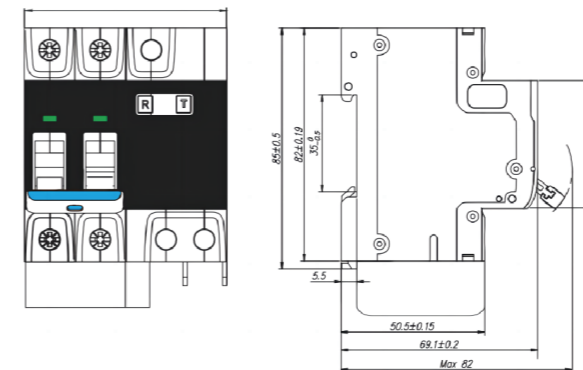
Tripping curves



Conductor requirements and cross section

Copper cross-section(mm ²)	Rated current I _n (A)
1	I _n ≤6
1.5	6 < I _n ≤13
2.5	13 < I _n ≤20
4	20 < I _n ≤25
6	25 < I _n ≤32
10	32 < I _n ≤50
16	50 < I _n ≤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_n): 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
 - 4.Rated Residual Operating Current (I_{Δn}): 30mA, 50mA, 100mA, 300mA
 - 5.Quantity: [e.g.: 100 pcs]
- Ordering Example:
CQB3LE-63 2P C/32A 30mA 100 pcs

CQB3Ln-63

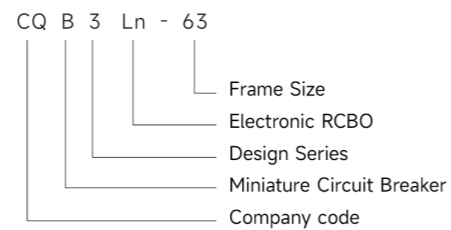
Residual Current Circuit Breaker with Overcurrent Protection - Electronic Type



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

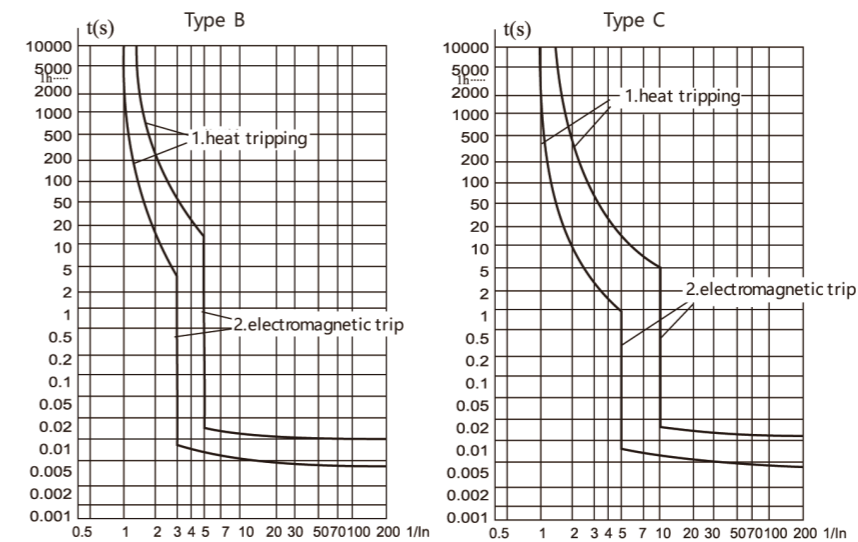
Type designation



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 ²
Maximum Tightening Torque	2.5 N.m
Mounting Method	Mounts on 35mm DIN rail
Standard	IEC/EN 61009-1

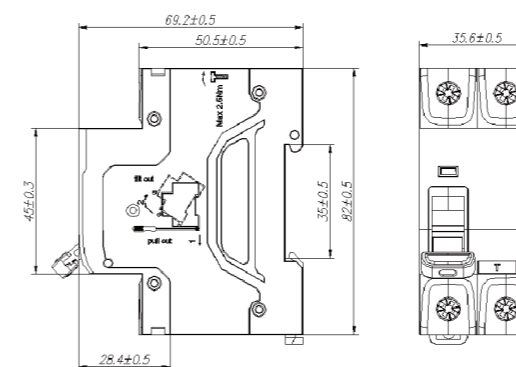
Tripping curves



Conductor requirements and cross section

Copper cross-section(mm ²)	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

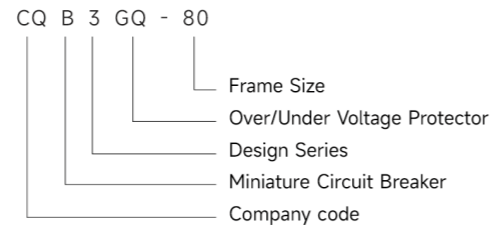
Self-restoring Over-under Voltage Protector



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.

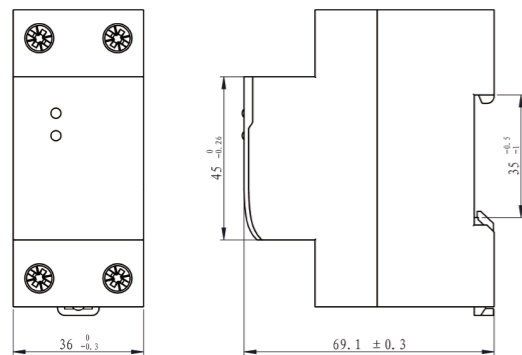
Type designation



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

- Product Model: CQB3GQ-80
 - Number of Poles: 1P+N
 - Rated Current: 40A, 63A, 80A
 - 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 alarm terminal 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 ² solid / 50 mm ² 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 ² solid/flexible
Standards	IEC 61643-11; GB 18802.1; YD/T 1235.1
Certification	CE, RoHS, ISO 9001, CQC, TUV

Dimensions(mm)

