

1 Product overview

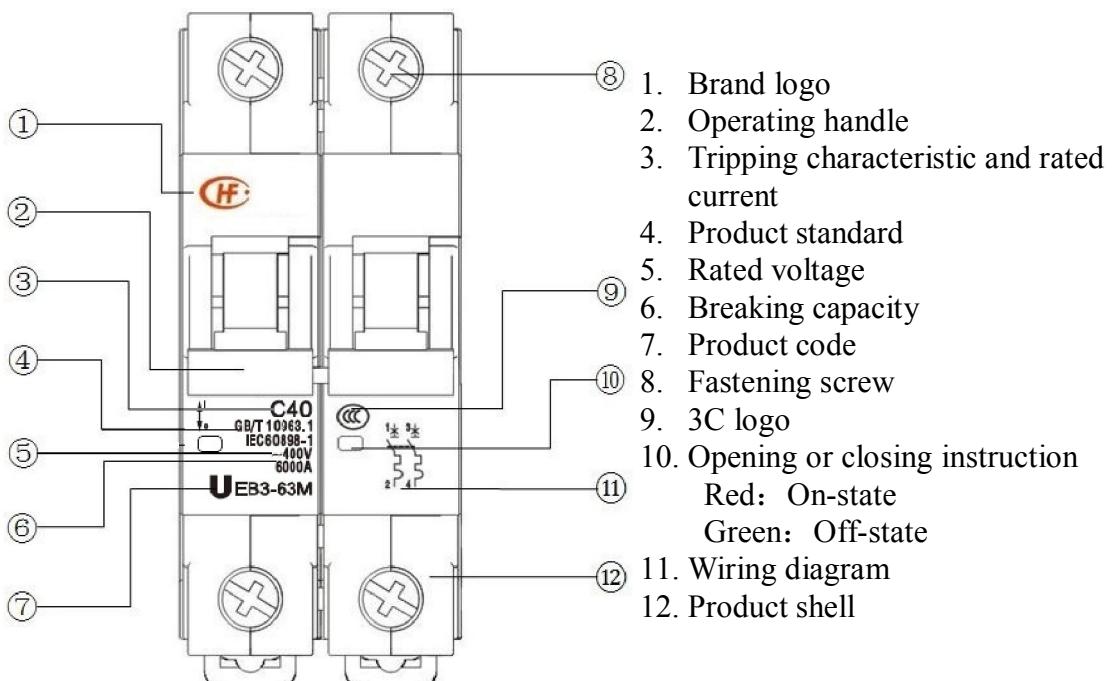
1.1 Scope of application

UEB3-63 series miniature circuit breaker are mainly used in circuit of AC 50Hz/60Hz, rated voltage 230V/400V, rated current under 63A, to protect the circuit and electric equipment of building and the similar places from over current , short circuit and isolating function, it's also applicable for the infrequent make and break operation.

1.2 Product characteristics

- UEB3-63 series miniature circuit breaker with Overload and short circuit protection;
- Arc-resistance material contact with high breaking capacity and long electrical life;
- Use the safe wiring structure against the electrical shock;
- The shelf and the parts use the imported high flame and stamping resistance plastic;
- Module structure for free combination;
- TH35 standard DIN rail installation method;
- The product meets the standard of GB/T 10963.1, electrical accessories-overcurrent protection circuit breakers for domestic and similar place.The first part: for alternating circuit breaker;

1.3 Product structure



1.4 Standard

	CCC	GB/T 10963.1
	CB	IEC 60898-1

2 Standard working environment and installation conditions

- Operation temperature range: -25°C ~ +60°C
- Storage temperature range: -40°C ~ +80°C
- Relative humidity: no higher than 50% at 40°C, no higher than 90% at 20°C
- Altitude: not more than 2000m
- Pollution degree: Class 2
- Installation category: Class II /III.
- Installation condition: Install in standard guide rail of 35mm, the gradient of mounting surface and vertical plane is not exceeded ±5°.
- Products are applied in the places with not significant vibration and shock.

3 Product model and meaning

UE B 3 - 63 M /C 06 1N

Manufacturer code: Xiamen Hongfa Electrical
Safety & Controls Co. Ltd.

Product code : MCB Circuit breaker

Design serial number : 3

Maximum rated current: 63 : 63A

Breaking capacity: L: 4.5KA M: 6kA

Instantaneous tripping characteristic: B: 3In~5In; C: 5In~10In; D: 10In~20In

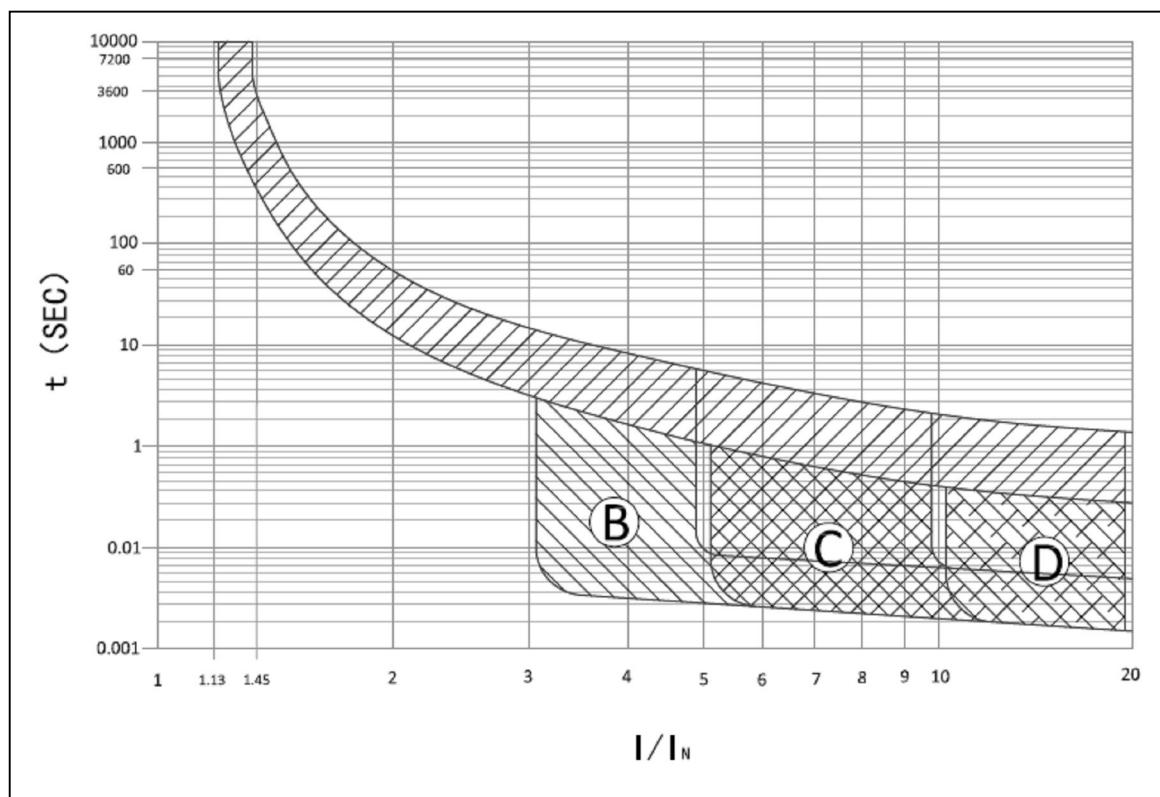
Rated Current: 6A、10A、16A、20A、25A、32A、40A 、50A、63A

Number of poles: 1: 1P; 1N: 1P+N; 2: 2P; 3: 3P; 3N: 3P+N; 4: 4P

4 Main technical parameters

Type	UEB3-63	
Number of poles	1P, 1P+N, 2P, 3P, 3P+N, 4P	
Instantaneous tripping characteristic	B : 3In ~ 5In ; C : 5In ~ 10In ; D : 10In ~ 20In	
Values of rated short-circuit capacity	UEB3-63L : $I_{cn}=I_{cs}=4.5kA$ UEB-63M : $I_{cn}=I_{cs}=6kA$	
Rated ultimate short-circuit breaking capacity I_{cu}	UEB-63L : $I_{cu}= 4.5kA$ UEB-63M : $I_{cu}= 6kA$	
Rated current I_n	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A	
Rated voltage U_e	AC230V/400V (1P) ; AC230V (1P+N) ; AC400V (2P/3P/3P+N/4P)	
Rated insulation voltage U_i	400V	
Rated impulse withstand voltage U_{imp}	4kV	
Power-frequency withstand voltage	2kV	
Mechanical life(cycles)	20000	
Electrical life (cycles)	10000	
Protection class	IP20	
Weight (g)	1P	94.5
	1P+N	208
	2P	210.5
	3P	281.5
	3P+N	378.5
	4P	420.5
Product packaging information	Outer packing box 520mm×313mm×177mm	
Line way	Upward Line	

5 Overload release characteristics curve



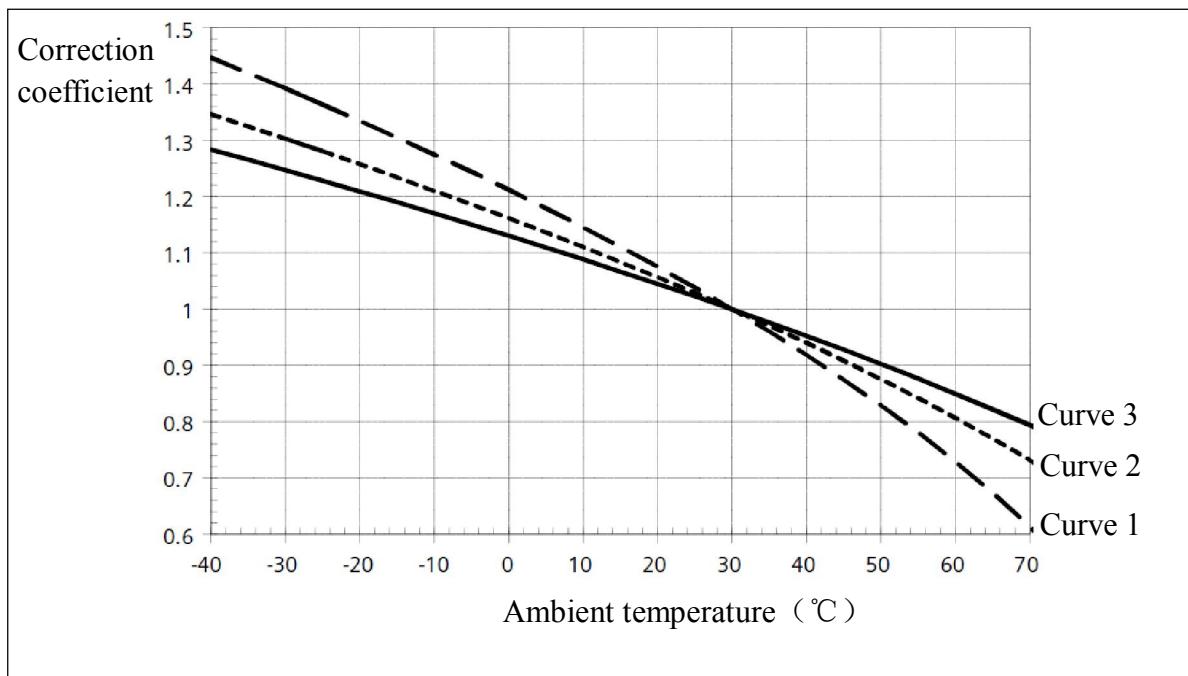
6 Volume reduction coefficients

6.1 Temperature compensation coefficient

At different temperatures, the supplement coefficient corresponding at the overload release current should not exceed the equipment rating under normal condition.

The curve corresponding to the correction coefficient

Ratedcurrent (A)	6	10	16	20	25	32	40	50	63
B	1	1	2	2	2	2	2	2	3
C	1	1	2	2	2	2	2	2	3
D	1	1	2	2	2	2	2	2	3



6.2 Frequency coefficient

Thermal release: invariant

Electromagnetic release: Multiplying the corresponding value by the frequency coefficient K.

F (Hz)	16Hz ~ 60Hz	100 Hz	200 Hz	300 Hz	400 Hz
K	1	1.1	1.2	1.4	1.5

6.3 Reduction Coefficient of plateau area

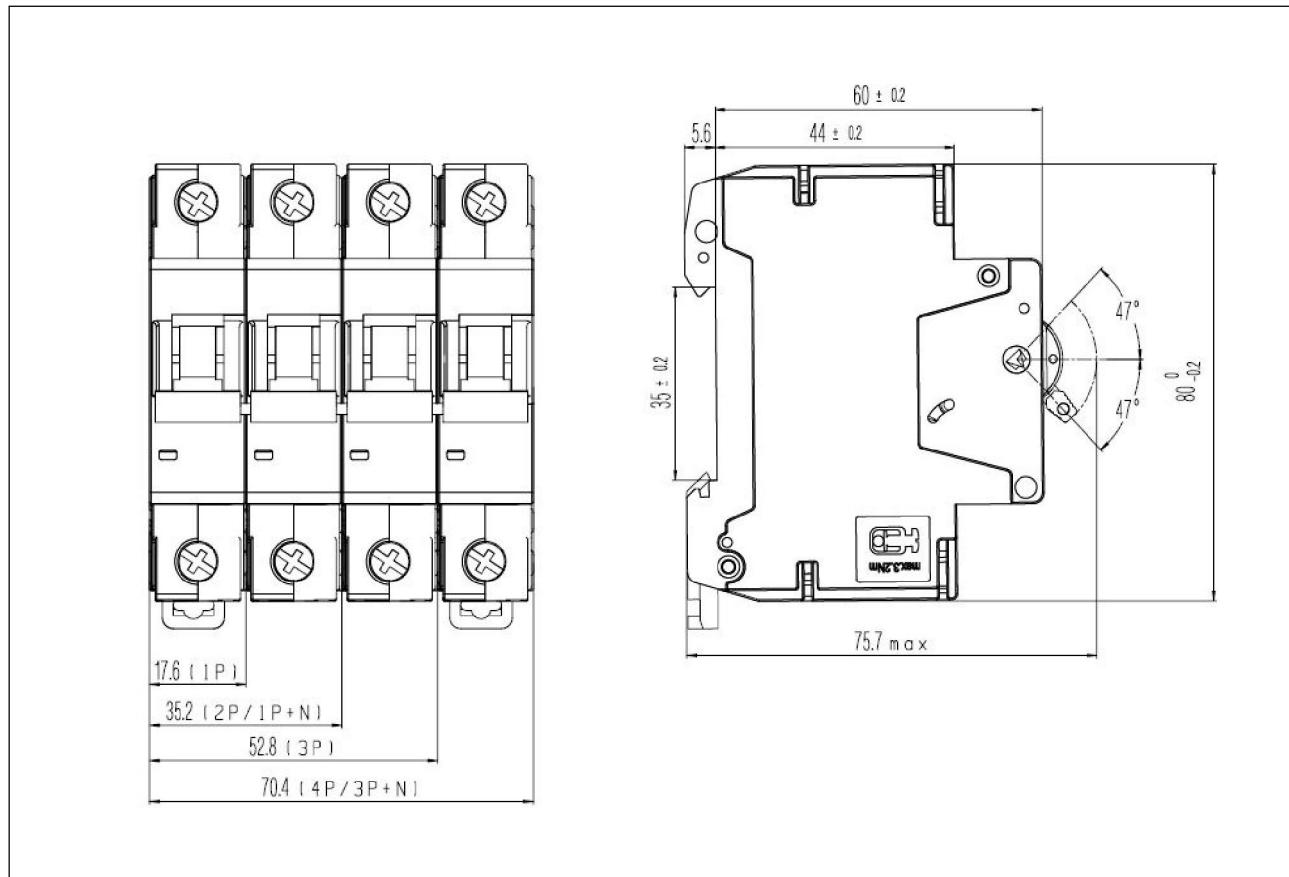
Altitude (m)	2000	3000	4000	5000
Rated current In	1	0.97	0.91	0.86
Rated insulation voltage Ui	1	0.90	0.82	0.76
Power-frequency withstand voltage	1	0.90	0.82	0.76
Rated impulse withstand voltage Uimp	1	0.90	0.82	0.76
Values of rated short-circuit capacity	1	0.87	0.77	0.67
Electrical life (cycles)	1	0.87	0.77	0.67

7 connecting wire requirements

Connection type, $1\text{mm}^2 \sim 25\text{mm}^2$ wire can be connected

Wiring screw specification	Rated torque	Ultimate torque	National standard torque	Single strand of hard copper wire	Multiple soft copper wire
M5	2.0N·m	3.0N·m	2.0N·m	$1\text{mm}^2 \sim 25\text{mm}^2$	$1\text{mm}^2 \sim 25\text{mm}^2$

8 outline mounting dimension diagram



3P	UEB3-63M/B403	UEB3-63M/C403	UEB3-63M/D403	40	6
3P	UEB3-63M/B503	UEB3-63M/C503	UEB3-63M/D503	50	6
3P	UEB3-63M/B633	UEB3-63M/C633	UEB3-63M/D633	63	6
3P+N	UEB3-63M/B063N	UEB3-63M/C63N	UEB3-63M/D063N	6	6
3P+N	UEB3-63M/B103N	UEB3-63M/C103N	UEB3-63M/D103N	10	6
3P+N	UEB3-63M/B163N	UEB3-63M/C163N	UEB3-63M/D163N	16	6
3P+N	UEB3-63M/B203N	UEB3-63M/C203N	UEB3-63M/D203N	20	6
3P+N	UEB3-63M/B253N	UEB3-63M/C253N	UEB3-63M/D253N	25	6
3P+N	UEB3-63M/B323N	UEB3-63M/C323N	UEB3-63M/D323N	32	6
3P+N	UEB3-63M/B403N	UEB3-63M/C403N	UEB3-63M/D403N	40	6
3P+N	UEB3-63M/B503N	UEB3-63M/C503N	UEB3-63M/D503N	50	6
3P+N	UEB3-63M/B633N	UEB3-63M/C633N	UEB3-63M/D633N	63	6
4P	UEB3-63M/B064	UEB3-63M/C064	UEB3-63M/D064	6	6
4P	UEB3-63M/B104	UEB3-63M/C104	UEB3-63M/D104	10	6
4P	UEB3-63M/B164	UEB3-63M/C164	UEB3-63M/D164	16	6
4P	UEB3-63M/B204	UEB3-63M/C204	UEB3-63M/D204	20	6
4P	UEB3-63M/B254	UEB3-63M/C254	UEB3-63M/D254	25	6
4P	UEB3-63M/B324	UEB3-63M/C324	UEB3-63M/D324	32	6
4P	UEB3-63M/B404	UEB3-63M/C404	UEB3-63M/D404	40	6
4P	UEB3-63M/B504	UEB3-63M/C504	UEB3-63M/D504	50	6
4P	UEB3-63M/B634	UEB3-63M/C634	UEB3-63M/D632	63	6