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Ebasee
Smart Living Green Ebasee



CIRCUIT BREAKER



COMPANY PROFILE

As a leading supplier in the low voltage electrics industry, Shanghai Ebasee Electric Co., Ltd. products have been used for residential, commercial and industrial applications with its quality and service. EBASEE brand is recognized for its quality and reliability in an ever-increasing number of markets worldwide. So far EBASEE products have been approved by international labs including BV, TUV, Intertek, with KEMA, CB, SEMKO, RoHS, CE, and CCC etc.

With qualified raw materials and components supply, all products are manufactured by EBASEE's defined international specifications. We have 4 semi-auto production lines, up-to-date quality control facilities, well-trained and experienced workers. Moreover, with a technical R & D team and fully equipped in-house laboratory, EBASEE factory can carry out efficient new products development, daily production and QC.

EBASEE have a wide range of cooperations with world leading companies in new products development, OEM and ODM cooperation. Meanwhile, we process the idea of green and smart energy, working with universities such as Xi'an Jiao Tong University to get more intelligent and environmental electric solutions.

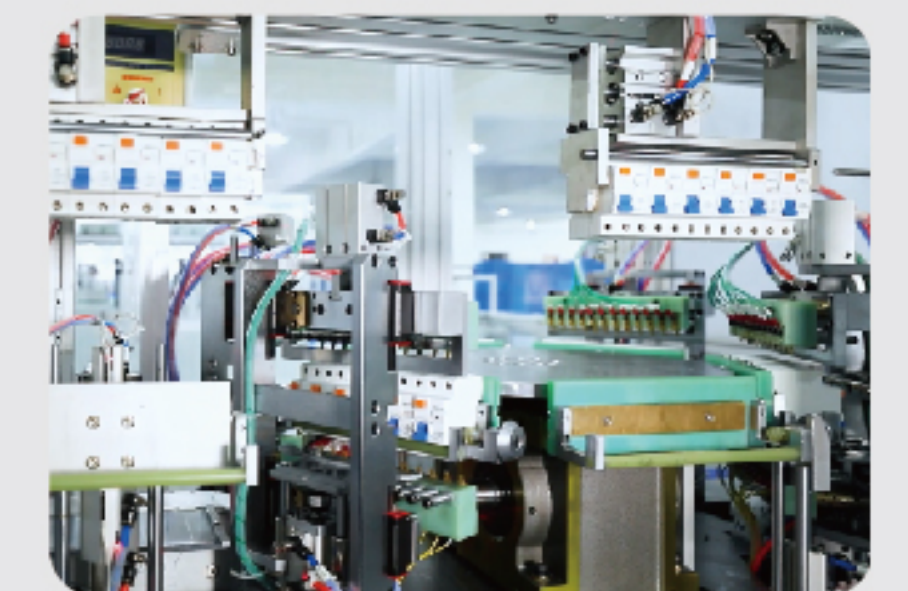
EBASEE focused on achieving growth through the success of worldwide partners. Guided by the philosophy of "market-oriented", powered by the idea of "Quick response and flexible supply", EBASEE support our worldwide partners to compete against established global players, to deliver the most systemetic and cost-effective products and service in the market.

"Smart life, Green EBASEE"



Quality is our culture!

PRODUCTION LINE

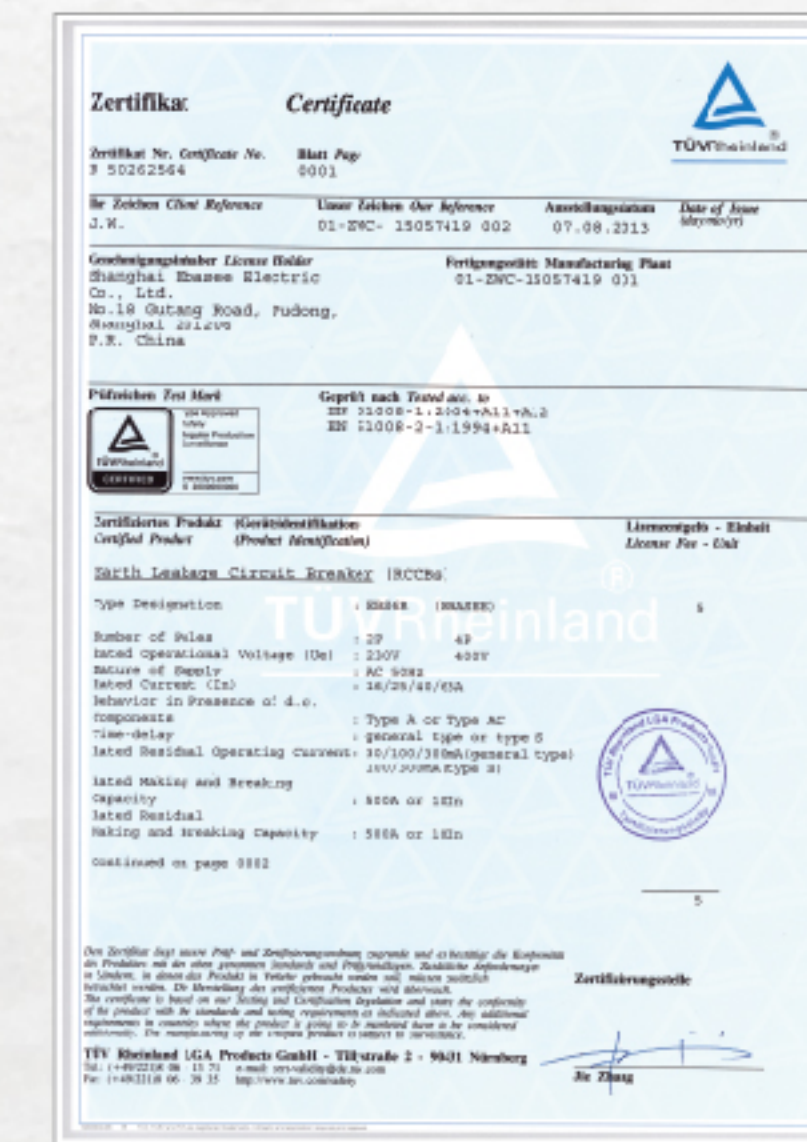
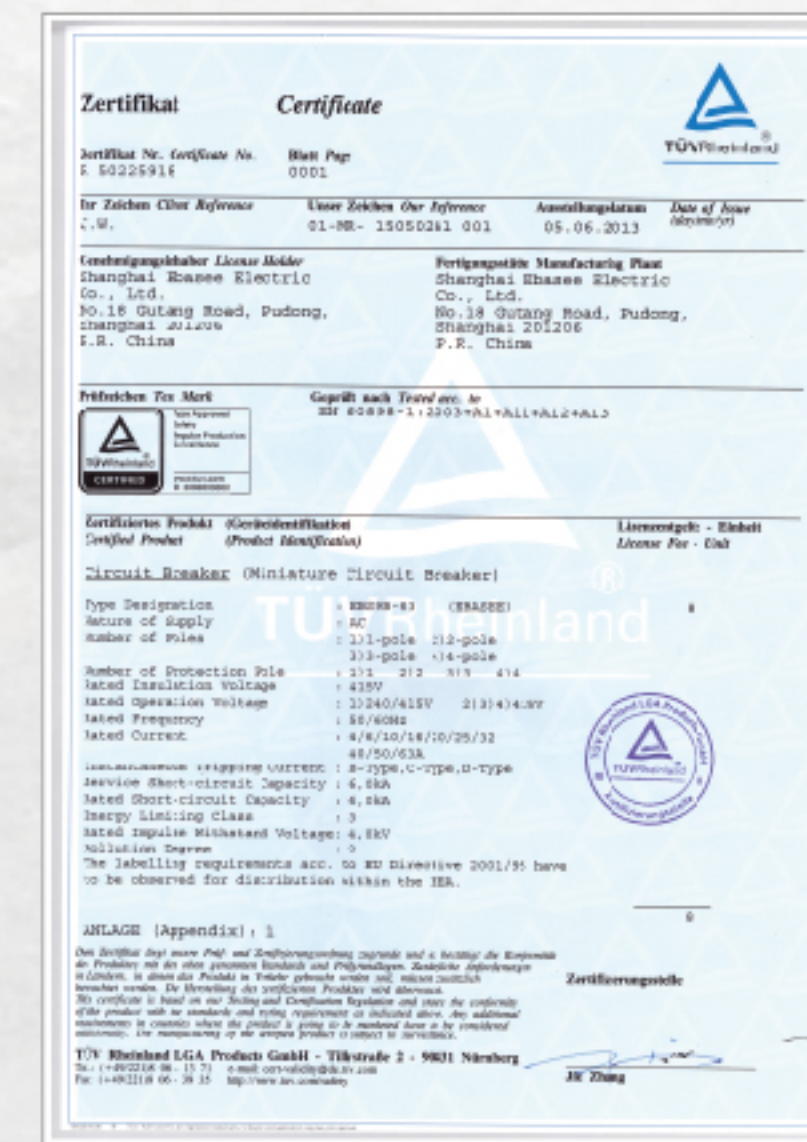
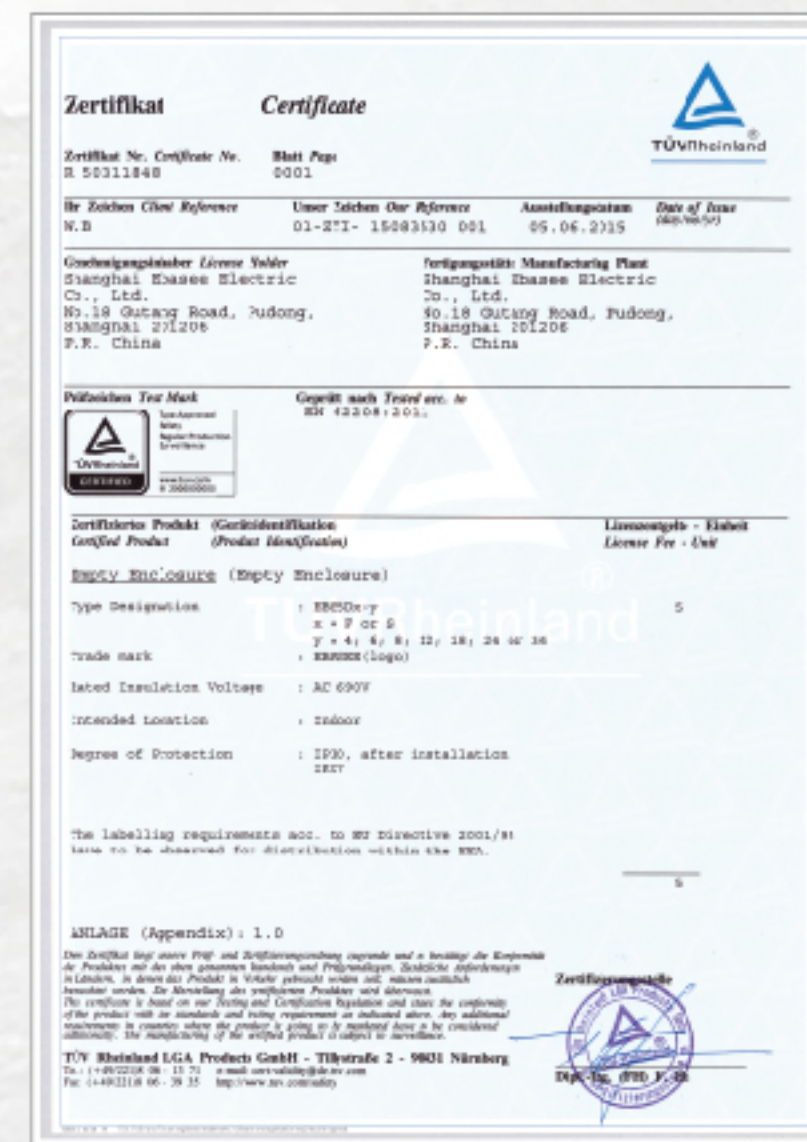
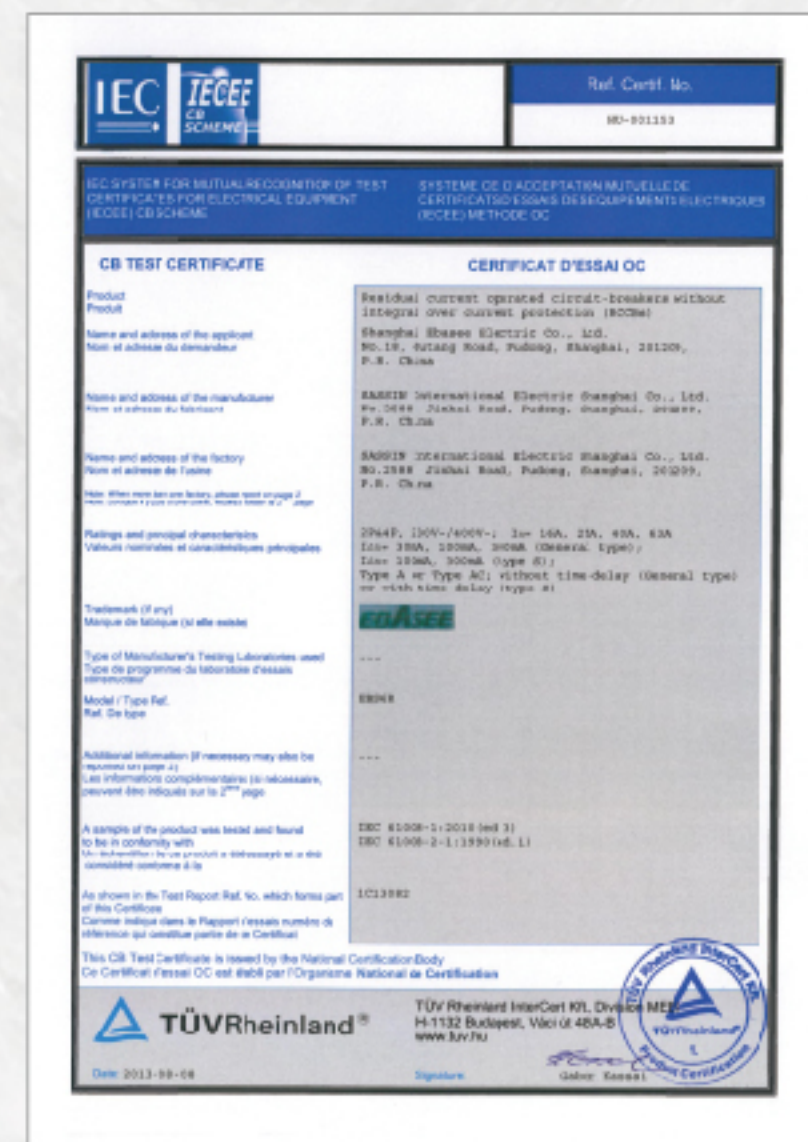
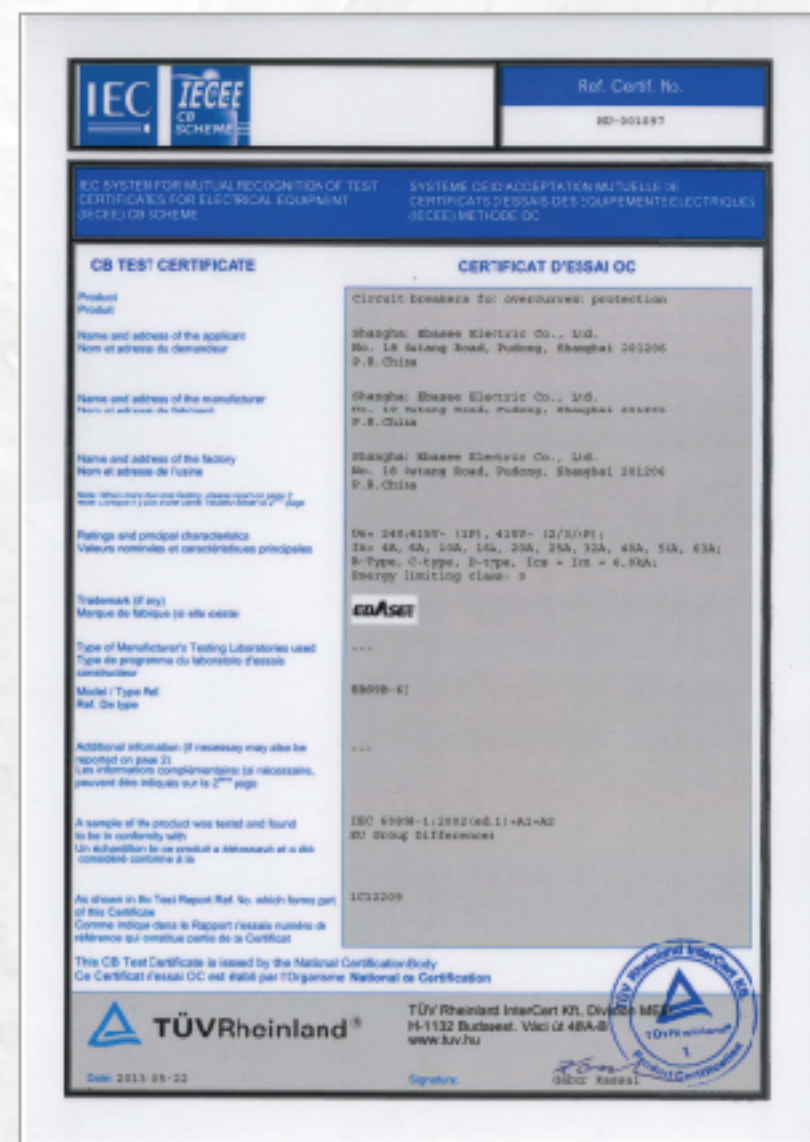
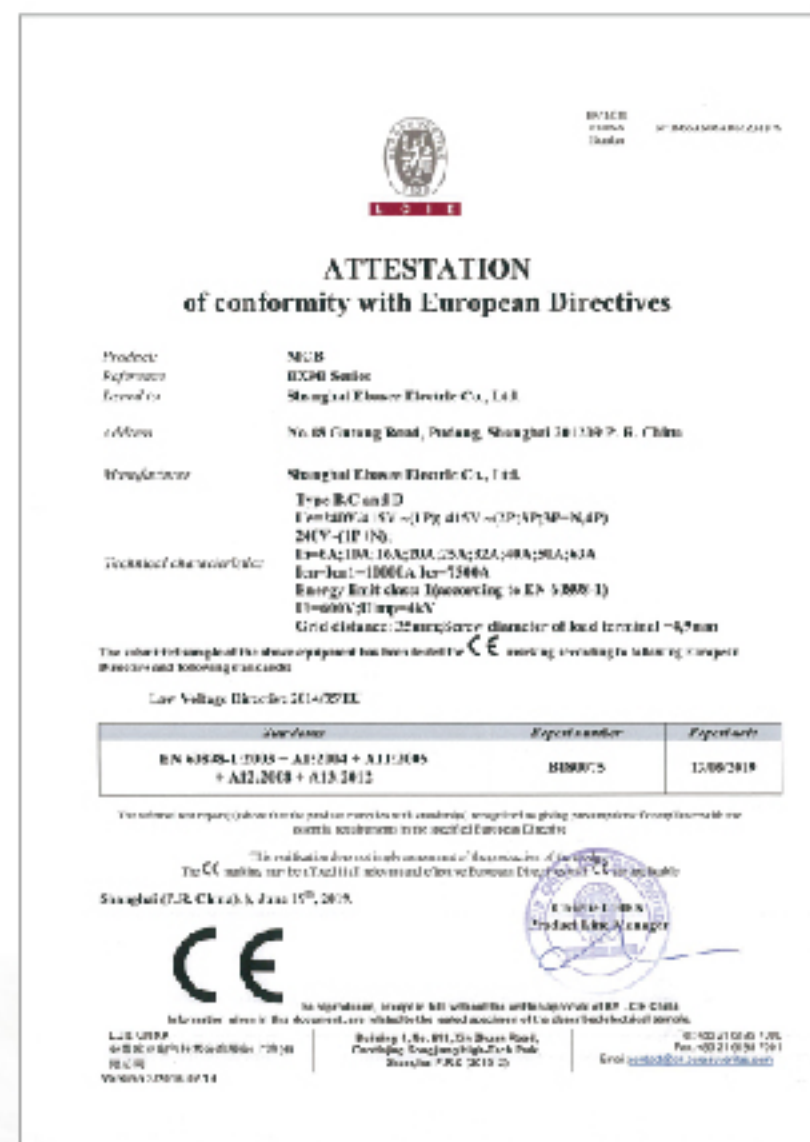


SMART LIVING GREEN EBASEE

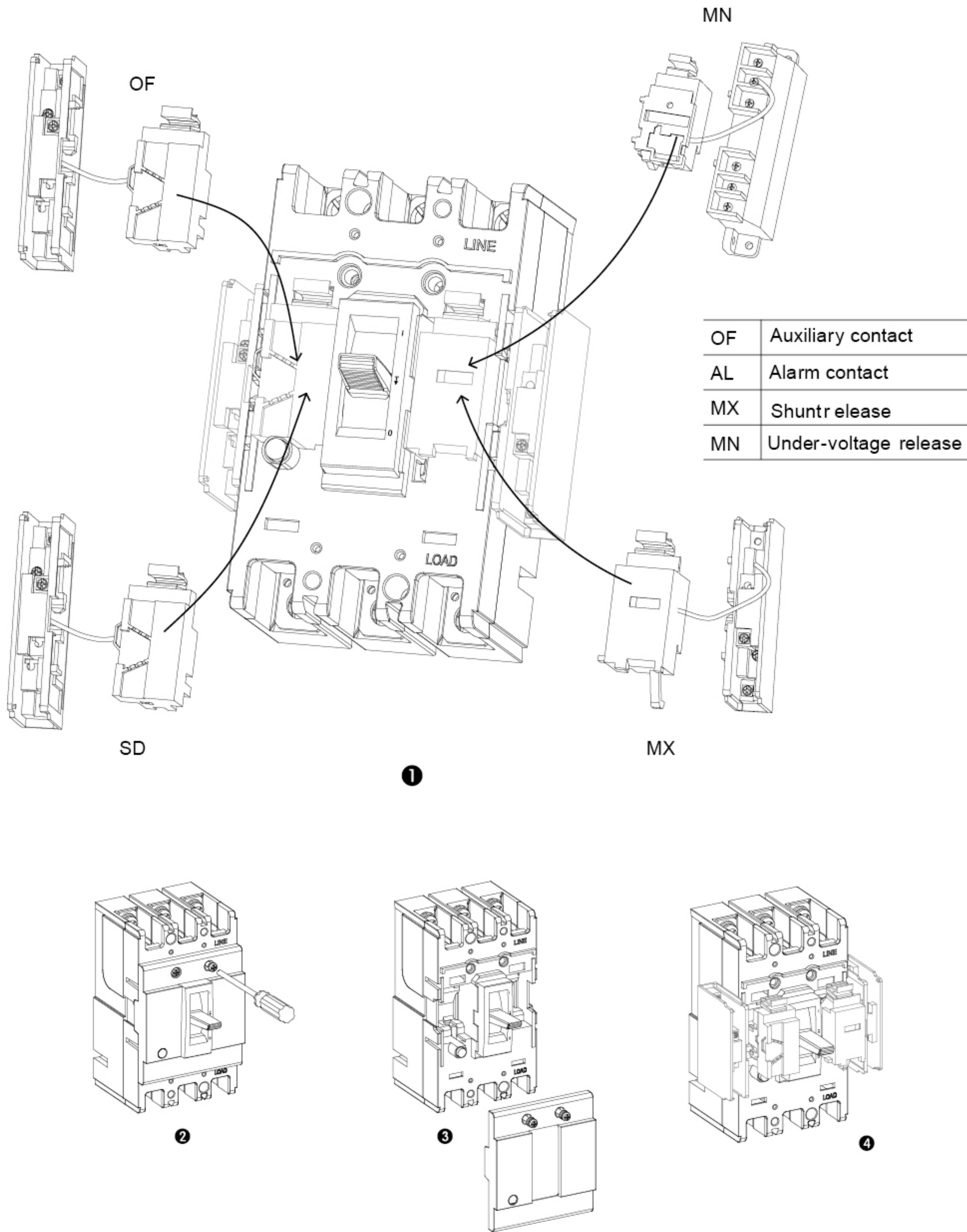


INTERNATIONAL QUALITY CERTIFICATE

EBASEE products have been approved by international labs including BV, TUV, Intertek, with KEMA, CB, SEMKO, RoHS, CE, and CCC etc.



Internal accessories & mounting



NOTE:

1. If MN is installed, the MN shall be switched on before the breaker can be switched on and closed.
2. MN and MX can not be installed simultaneously.

1.General

EBS9M,EBS9ML,EMS9MRT,EBS9MT/A,EBS9MAL,EBS9MLAL,EBS9MRE,EBS9MREL Series is new type moulded case circuit breaker that developed and manufactured by adopting international MCCB advantages and market requirements. It is supplied with rated insulating voltage 690V, and use in the distribution network circuit of AC 50Hz, rated operating voltage AC 690V, rated operating current up to 800A. It could allot electric energy and protect circuit & electric power unit against over-load, short-circuit, under-voltage etc. It also protects motor frequently start & over-load, short-circuit, under-voltage etc. installed vertically or horizontally. It is convenient & ideal product for user. This product conforms to IEC60974-2 standard.



2.Nomenclature

EBS 9M - 630 / 3P

_____ Poles

_____ Frame level

_____ Design code

_____ Company code

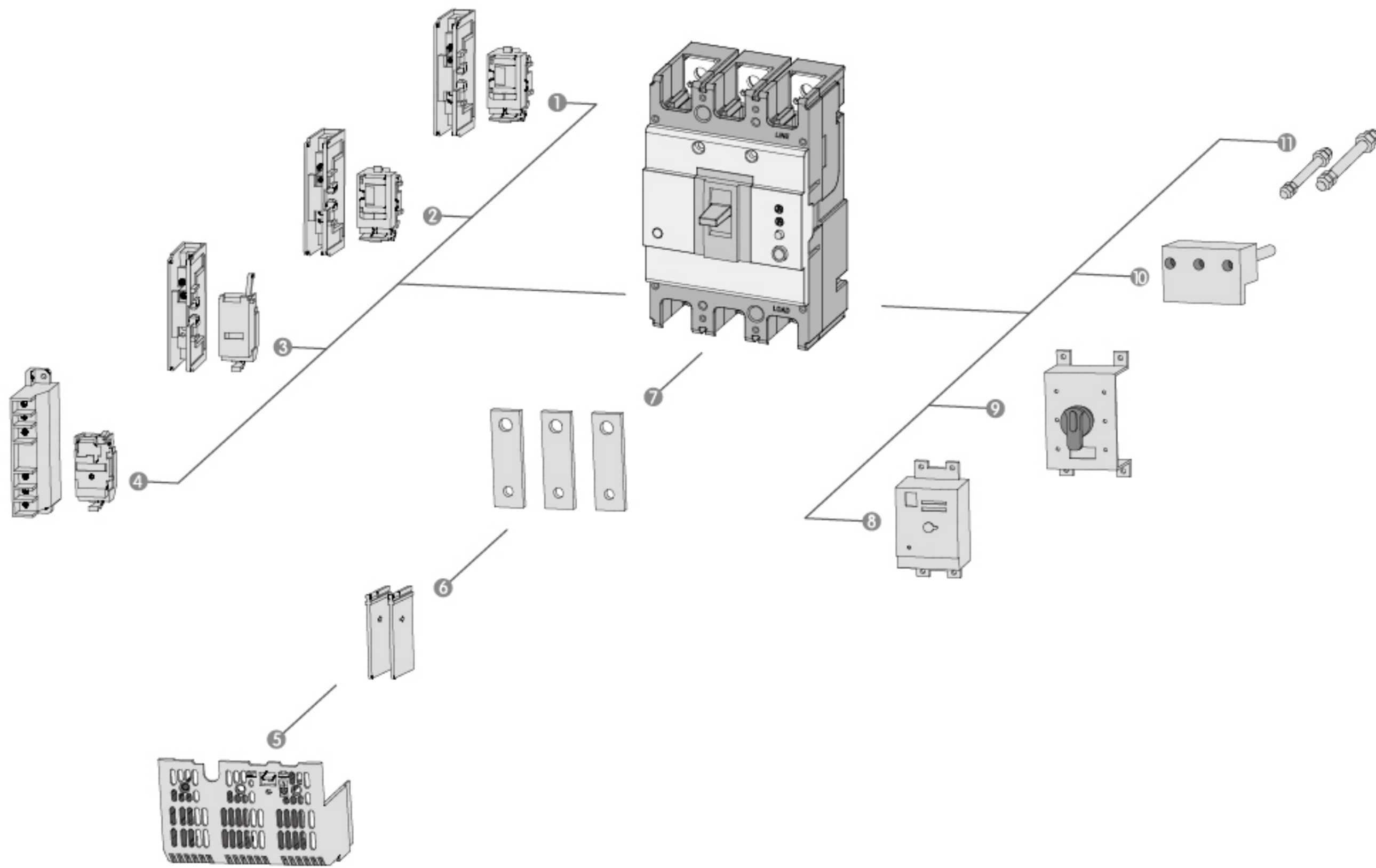
3.Characteristics

- Miniaturized Design
125A frame level size is same to 63A, it can meet specifically requirements for installation size.
- Unified Size
At the same frame level, the installation size is same at different breaking capacity (C,S,M,H) and different functions (ACB,RCCB).
- Reasonable Parameters Setting
It provides the setting of over-load & long time delay inverse time limit, short circuit & instantaneous operation. And users can set data based on their needs to realize reasonable distribution.

4.Working and Installation Conditions

- Altitude $\leq 2000\text{M}$
- Ambient temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$ ($+45^{\circ}\text{C}$ for marine product)
- Anti moist air
- Anti mould
- Anti nuclear radiation
- Gradient $\leq 22.5^{\circ}$
- Still work stably from vibration
- Still work stably from earthquake (4g)
- No explosion hazard, no corroding metal and destroy insulating gas & electric dust condition
- No rain & snow condition

5.Products Overview



1. Auxiliary switch

2. Alarm switch

3. Shunt release

4. Under-voltage release

5. Terminal cover

6. Phase partition
7. Front panel connection

8. Electric motor operating mechanism

9. Rotary handle operating mechanism

10. Plug-in rear panel connection

11. Rear panel connection

1.Nomenclature

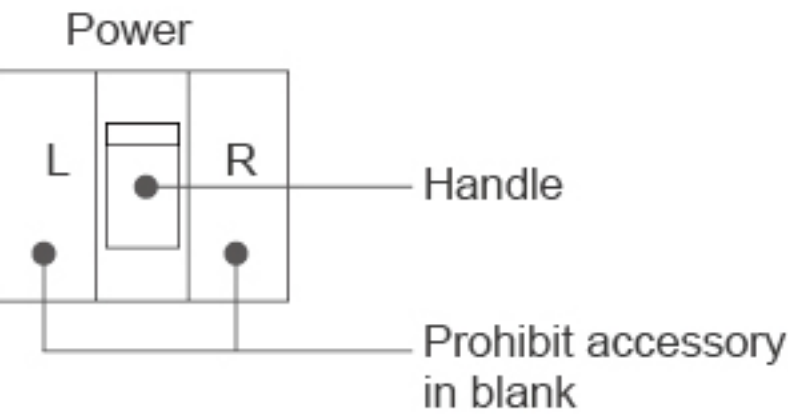
EBS	9M	125	C	P
Company code	Design code	Frame level Inm 125,160,300,630, 800 Note: 125 equal to 63 updating type 160 equal to 125 updating type 300 equal to 250 updating type 630 equal to 400 updating type	Breaking Capacity Icu/Ics (kA) C S M H 125 18/10 30/15 — 160 25/15 35/25 50/35 70/50 300 25/15 35/25 50/35 70/50 630 35/25 50/35 — 70/50 800 — 50/35 — 70/50	Operation Mode P: Motor operator Z: Rotary handle W: Direct operation

4	300	125A	2	A
Pole 3: Three poles 4: Four poles	Tripper mode & inner accessory First digit stands for tripper mode 2: Instantaneous tripper 3: Multiple tripper Note: The latter two digits is accessory code (See attached sheet)	Rated current: A 125 : 10, 16, 20, 32, 40, 50, 63, 80, 100, 125 160 : 10, 16, 20, 32, 40, 50, 63, 80, 100, 125, 140, 160 300 : 100, 125, 140, 160, 180, 200, 225, 250, 275, 300 630 : 250, 315, 350, 400, 500, 630 800 : 500, 630, 700, 800	Application 1:Power distribution 2:Protect motor	ApplicatAvailable functions for four poles A: N without protection and inseparable B: N without protection, separate C: N with protection and inseparable D: N with protection and inseparable

Q1	D1	Q	2
Accessory voltage Under-voltage release Shunt release Auxiliary contact Q1: 220V AC F1: 220V AC J1: 125V AC Q2: 240V AC F2: 380V AC J2: 250V AC Q3: 380V AC F3: 110V DC J3: 125V DC Q4: 415V AC F4: 24V DC J4: 24V DC	Voltage: DC1 Electric motor DC3 Electric motor operating mechanism operating mechanism D1: 220V AC D5: 230V AC D2: 230V AC D6: 110V AC D3: 380V AC D7: 220V DC D4: 400V AC D8: 110V DC D9: 110~240V AC D10:10~220V DC Note: The motor operator voltage refers to outer accessory introduction	Installations: Q: Front H: Rear C: Plug-in	Installed wiring board 1: without 2: with

2.Accessory Sheet

Model		EBS9M-125	EBS9M-160	EBS9M-300	EBS9M-630	EBS9M-800
Breaking capacity		C,S	C,S,M,H	C,S,M,H	C,S,H	S,H
Pole		3,4	3,4	3,4	3,4	3,4
Accessory code	Accessory name					
208,308	Alarm switch					
210,310	Shunt release					
220,320	Auxiliary contact					
230,330	Under-voltage release					
240,340	Shunt release, Auxiliary switch					
260,360	Double auxiliary switch					
270,370	Auxiliary switch, Under-voltage release					
218,318	Shunt release, Alarm switch					
228,328	Auxiliary switch , Alarm switch					
238,338	Under-voltage release, Alarm switch					
248,348	Shunt release, Auxiliary switch , Alarm switch					
268,368	Double auxiliary switch Alarm switch					
278,378	Auxiliary switch Under-voltage release Alarm switch					
280,380	Double auxiliary switch , Shunt release					



● Alarm switch ○ Auxiliary switch □ Shunt release ■ Under voltage release

Note:

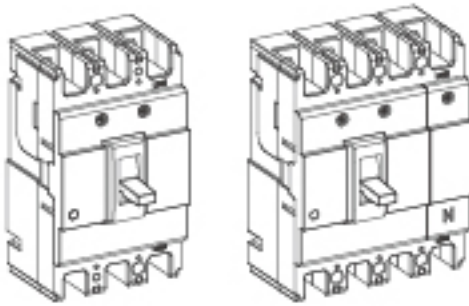
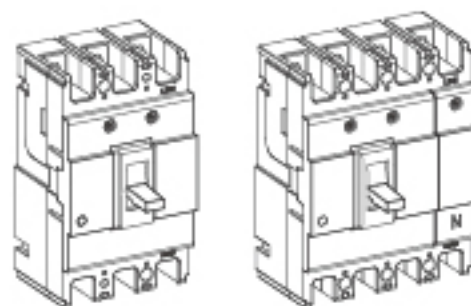
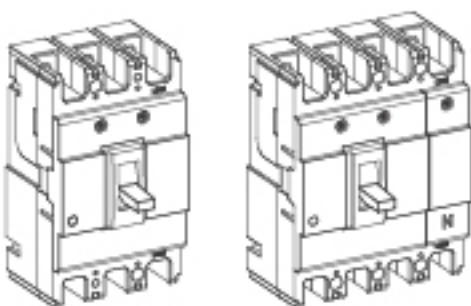
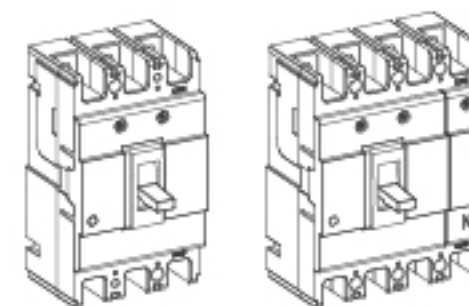
1. three series for user's choosing: Right auxiliary switch, left shunt release, left under voltage release

2. double auxiliary switch is available in 220,320,240,340,270,370A

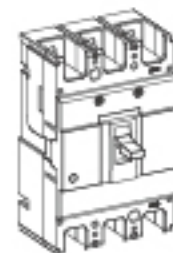
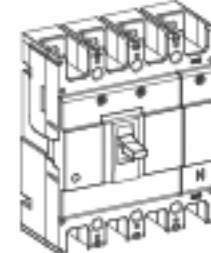
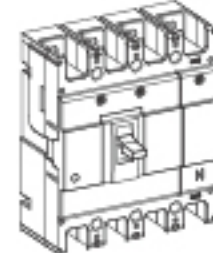
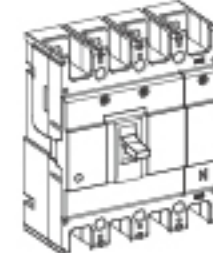
3.Main Performance

Frame (A)		125	
Type		EBS9M-125C	EBS9M-125S
Number of poles		3,4	3,4
Rated current Ie (A)		10, 16, 20, 32, 40, 50, 63, 80, 100, 125	10, 16, 20, 32, 40, 50, 63, 80, 100, 125
Rated voltage Ue (V)		400V AC	400V AC
Rated-insulation voltage Ui (V)		690V AC	690V AC
Short-circuit interrupting capacity Icu/Ics (kA)		400V AC 18/10	30/15
Operation life (cycle)	ON	6000	6000
	OFF	9000	9000
Dimensions (mm) a—b—c—ca	3P	75-130-68-90	75-130-68-90
	4P	100-130-68-90	100-130-68-90
Weight (Kg)	3P	0.55	0.65
	4P	0.65	0.8
Electrical-operation device (MD)		●	●
External drive operating handle		●	●
Automatic tripping device		Electromagnetic type	Electromagnetic type

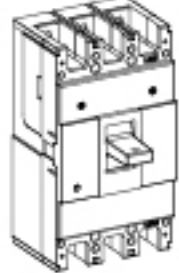
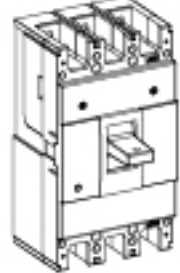
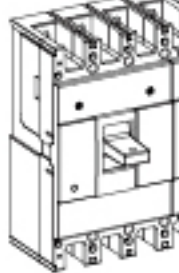
● with optional accessories

160			
EBS9M-160C	EBS9M-160S	EBS9M-160M	EBS9M-160H
3,4	3,4	3,4	3,4
			
10, 16, 20, 32, 40, 50, 63, 80, 100, 125, 140, 160	10, 16, 20, 32, 40, 50, 63, 80, 100, 125, 140, 160	10, 16, 20, 32, 40, 50, 63, 80, 100, 125, 140, 160	10, 16, 20, 32, 40, 50, 63, 80, 100, 125, 140, 160
400V AC	400V AC	400V AC	400V AC
690V AC	690V AC	690V AC	690V AC
25/15	35/25	50/35	70/50
3000	3000	3000	3000
7000	7000	7000	7000
90-155-68-90	90-155-68-90	90-155-68-90	90-155-83-105
120-155-68-90	120-155-68-90	120-155-68-90	120-155-68-90
1.0	1.1	1.1	1.1
1.0	1.4	1.4	1.4
●	●	●	●
●	●	●	●
Electromagnetic type	Electromagnetic type	Electromagnetic type	Electromagnetic type

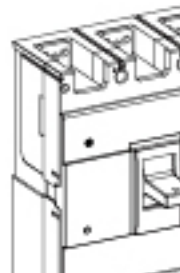
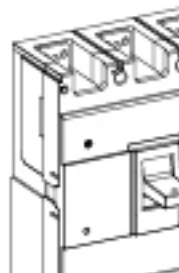
● with optional accessories

300			
EBS9M-300C	EBS9M-300S	EBS9M-300M	EBS9M-300H
3,4	3,4	3,4	3,4
			
100, 125, 140, 160, 180, 200, 225, 250, 275, 300	100, 125, 140, 160, 180, 200, 225,250, 275, 300	100, 125, 140, 160, 180, 200, 225,250, 275, 300	100, 125, 140, 160, 180, 200, 225,250, 275, 300
400V AC	400V AC	400V AC	400V AC
690V AC	690V AC	690V AC	690V AC
25/15	35/25	50/35	70/50
3000	3000	3000	3000
7000	7000	7000	7000
105-165-68-92	105-165-68-92	105-165-68-92	105-165-91-115
140-165-68-92	140-165-68-92	140-165-68-92	140-165-91-115
1.5	1.5	1.5	1.8
1.9	1.9	1.9	2.3
●	●	●	●
●	●	●	●
Electromagnetic type	Electromagnetic type	Electromagnetic type	Electromagnetic type

● with optional accessories

630		
EBS9M-630C	EBS9M-630S	EBS9M-630H
3,4	3,4	3,4
		
250, 315, 350, 400	250, 315, 350, 400	250, 315, 350, 400, 500, 630
400V AC	400V AC	400V AC
690V AC	690V AC	690V AC
35/25	50/35	70/50
2000	2000	2000
4000	4000	4000
140-257-105-155	140-257-105-155	140-257-105-155
185-257-105-155	185-257-105-155	185-257-105-155
5.7	5.7	5.7
7.5	7.5	7.5
●	●	●
●	●	●
Electromagnetic type	Electromagnetic type	Electromagnetic type

● with optional accessories

800	
EBS9M-800S	EBS9M-800H
3,4	3,4
	
500, 630, 700, 800	500, 630, 700, 800
400V AC	400V AC
690V AC	690V AC
50/35	70/50
1500	1500
4000	4000
210-275-105-155	210-275-105-155
280-275-105-155	280-275-105-155
9.5	9.5
12.5	12.5
●	●
●	●
Electromagnetic type	Electromagnetic type

● with optional accessories

4.Operation Characteristic

1.Ambient air temperature is +40℃ for power distribution, no temperature compensatory inverse time limit action characteristic of energized each pole meanwhile (refer to following sheet):

Testing current type	Setting multiple current	Action time		Initial state
		In≤63	In>63	
Appointed non tripping current	1.05	≥1h	≥2h	Cold state
Appointed tripping current	1.30	<1h	<2h	Thermal state

2.Ambient air temperature is +40℃ for motor protection, no temperature compensatory inverse time limit action characteristic of energized each pole meanwhile (refer to following sheet):

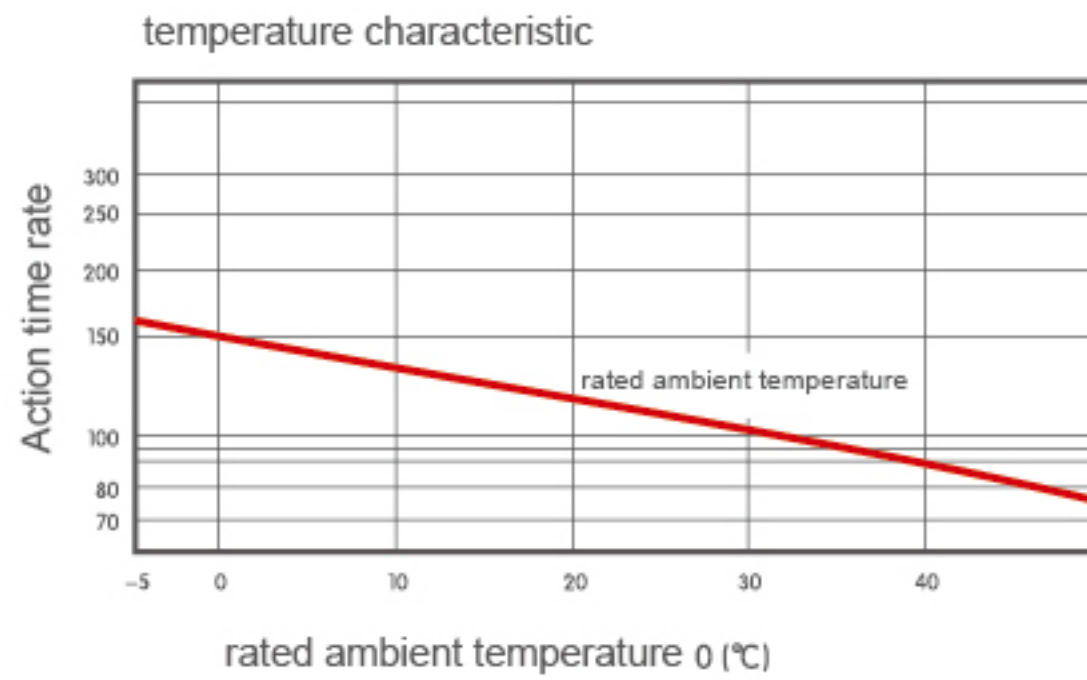
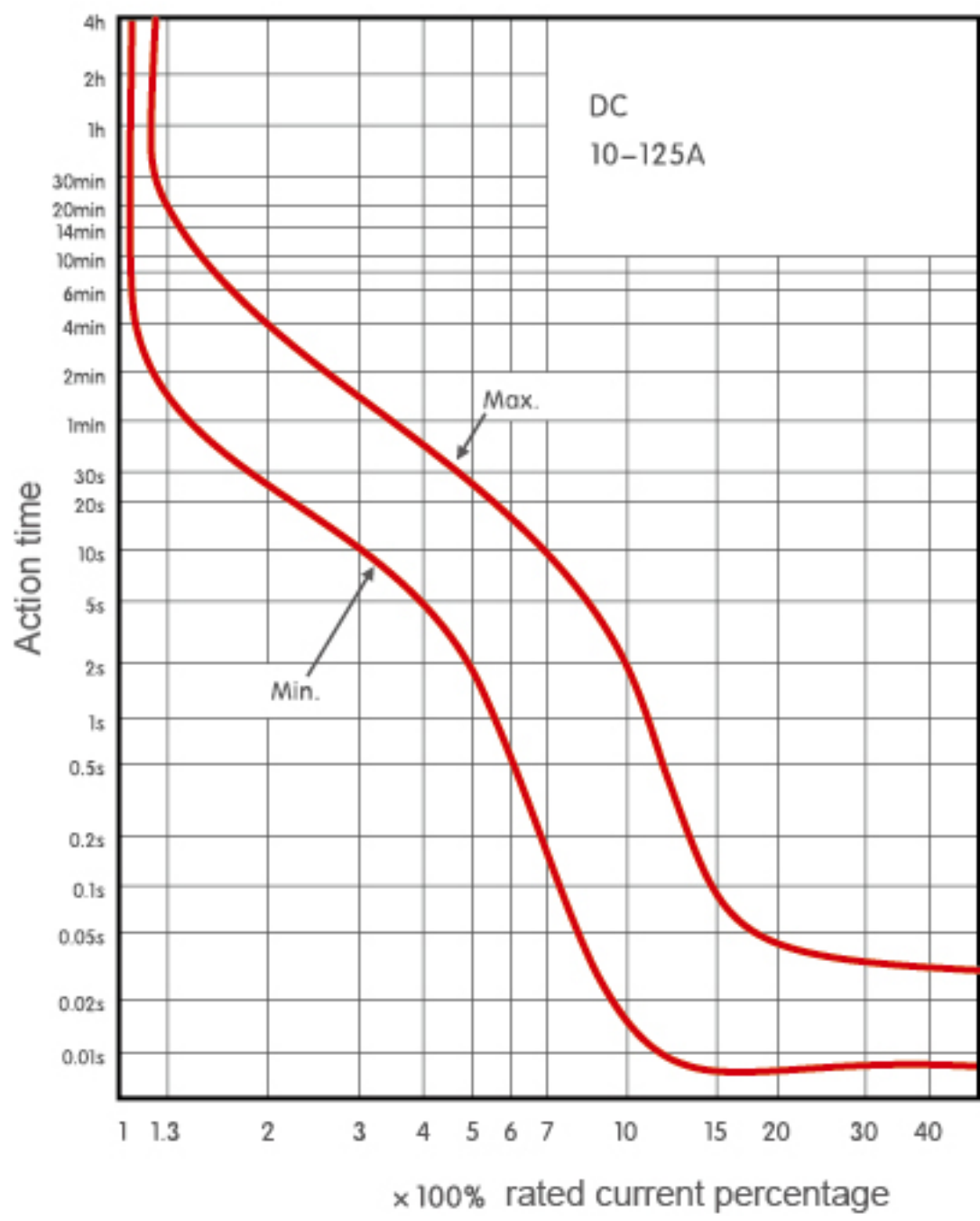
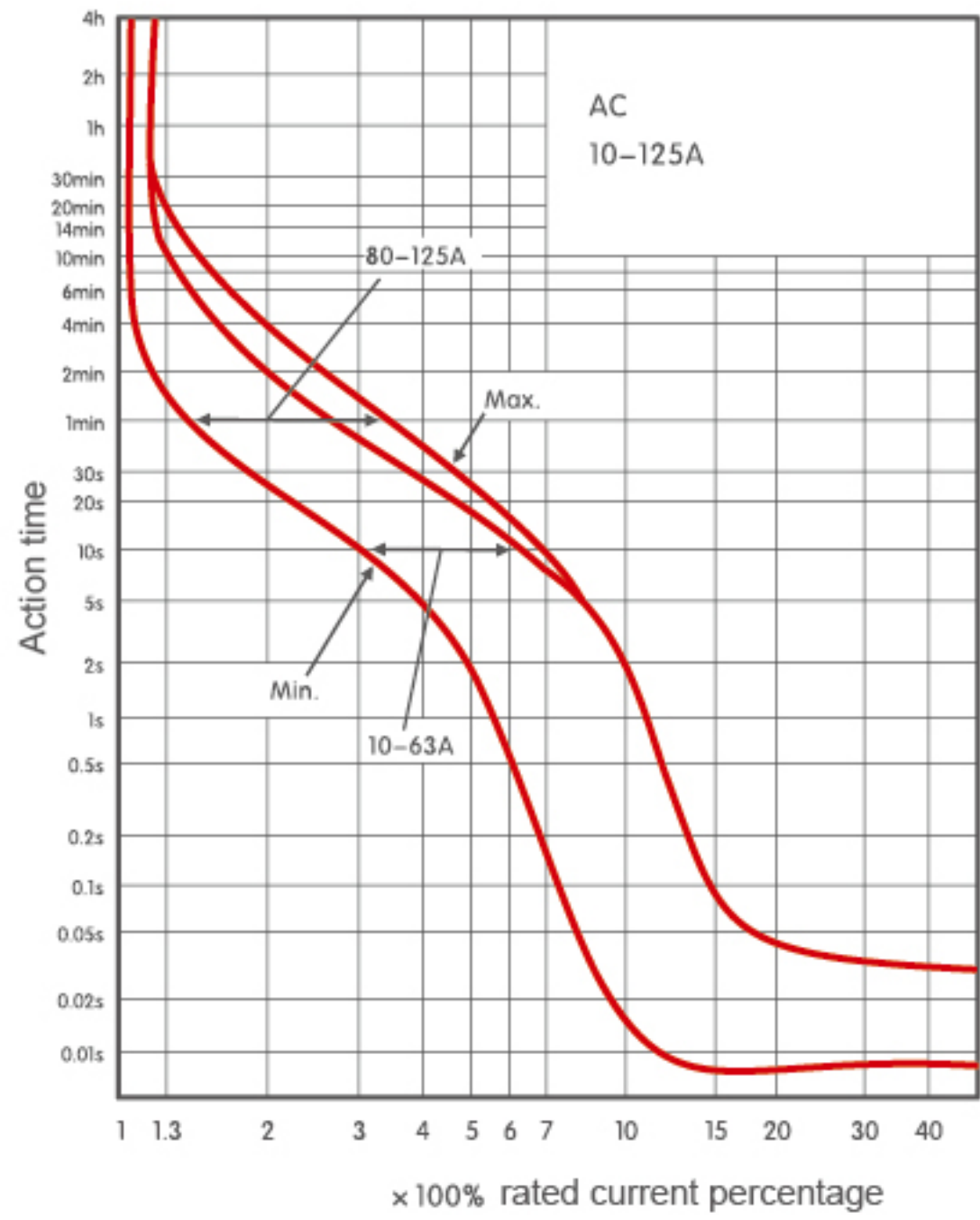
Testing current type	Setting multiple current	Action time	Initial state
In≤800			
Appointed non tripping current	1.0	≥2h	Cold state
Appointed tripping current	1.2	<2h	Thermal state

3.Operation characteristic of short-circuit state:

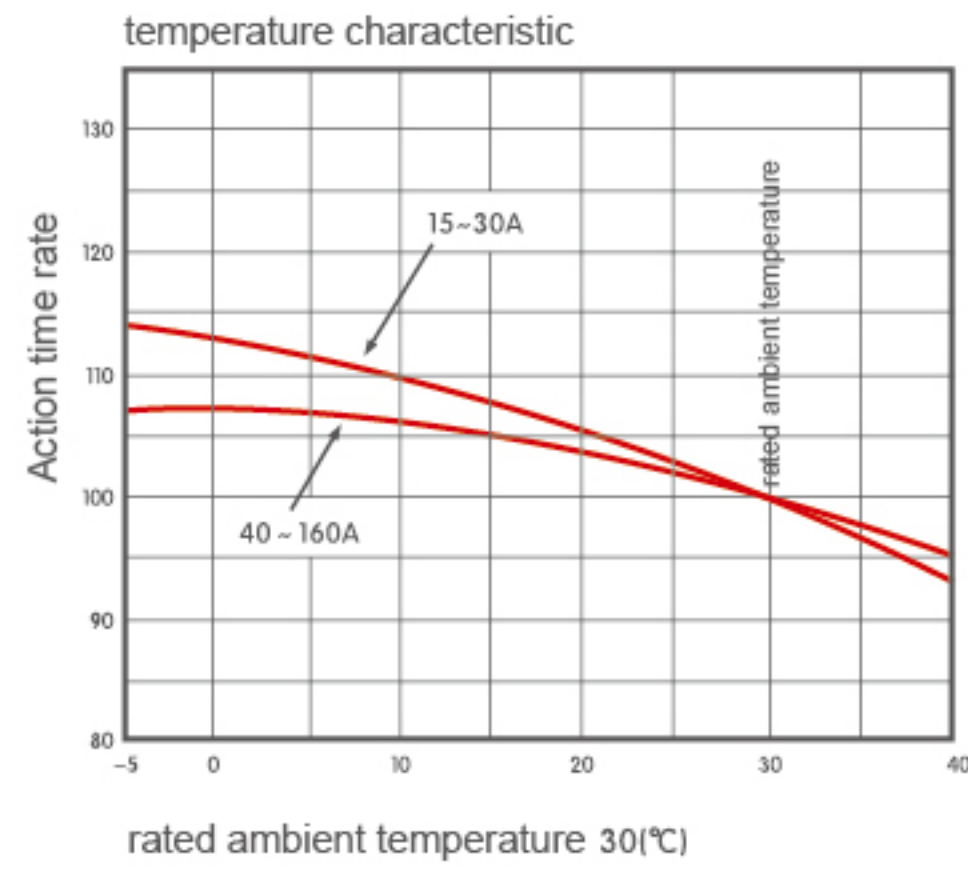
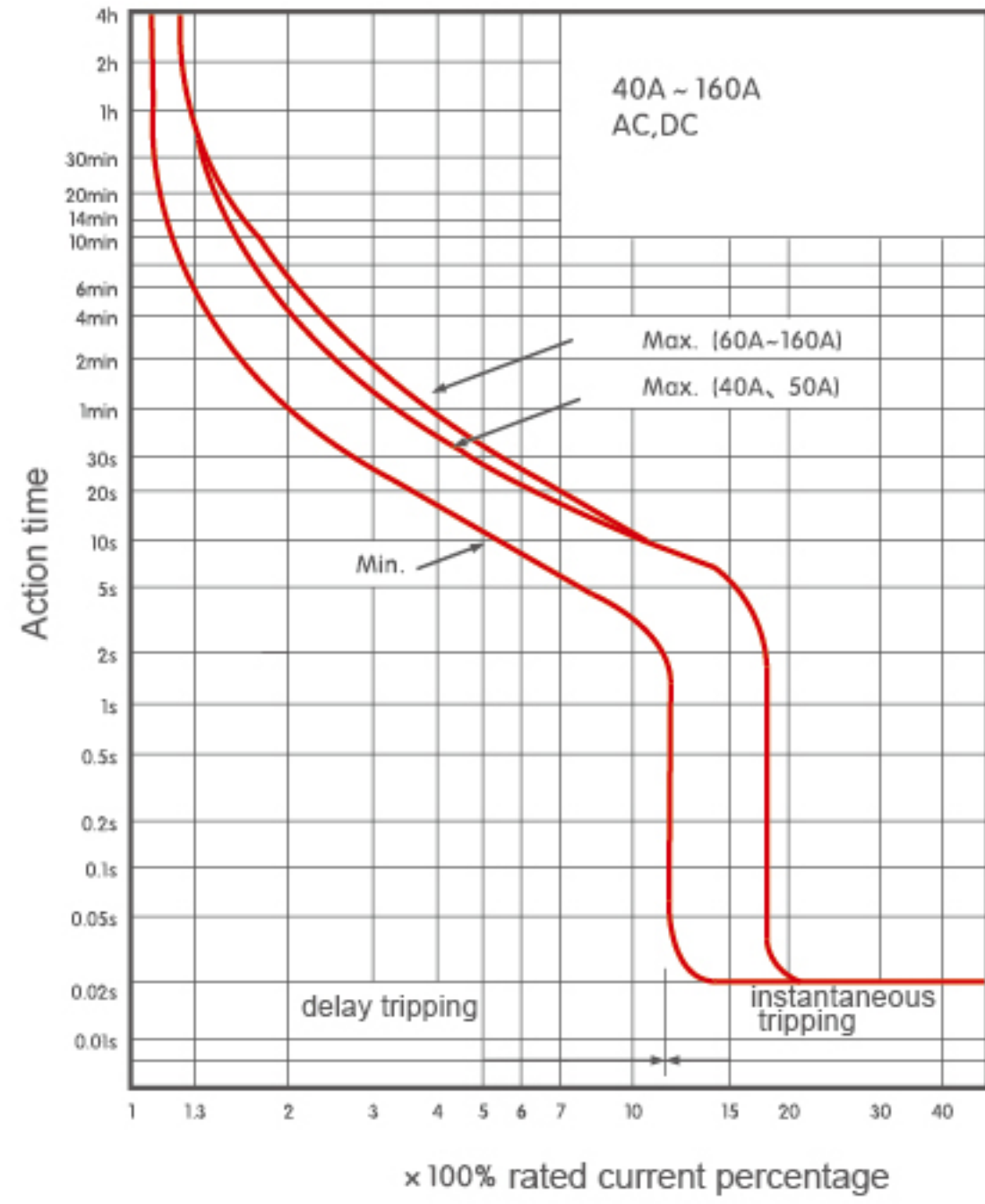
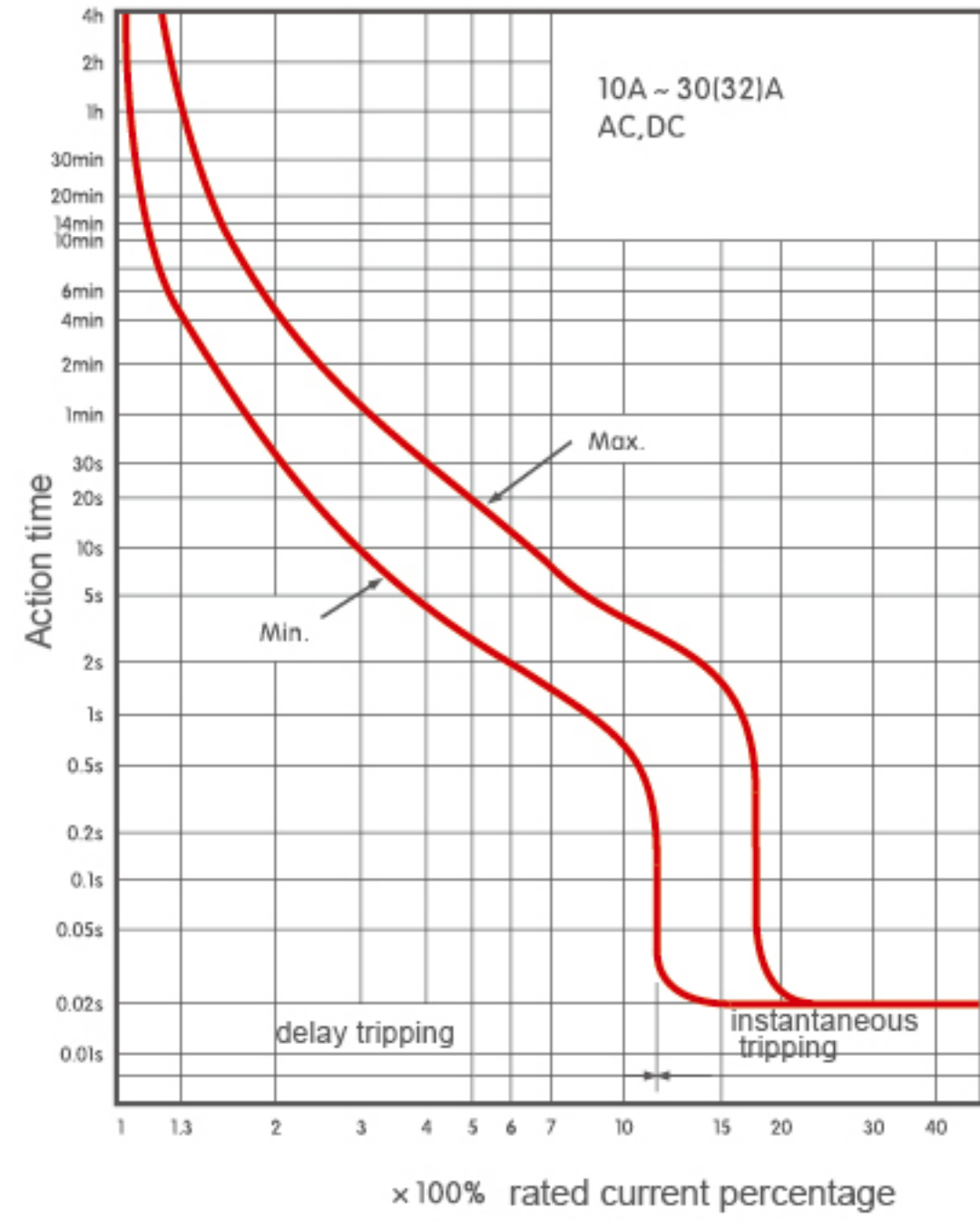
- > Instantaneous tripping short circuit in power distribution is 10In
- > Instantaneous tripping short circuit in protecting motor is 12In
- > Instantaneous tripping short circuit setting current accuracy is ±20%

5.Tripping Characteristic

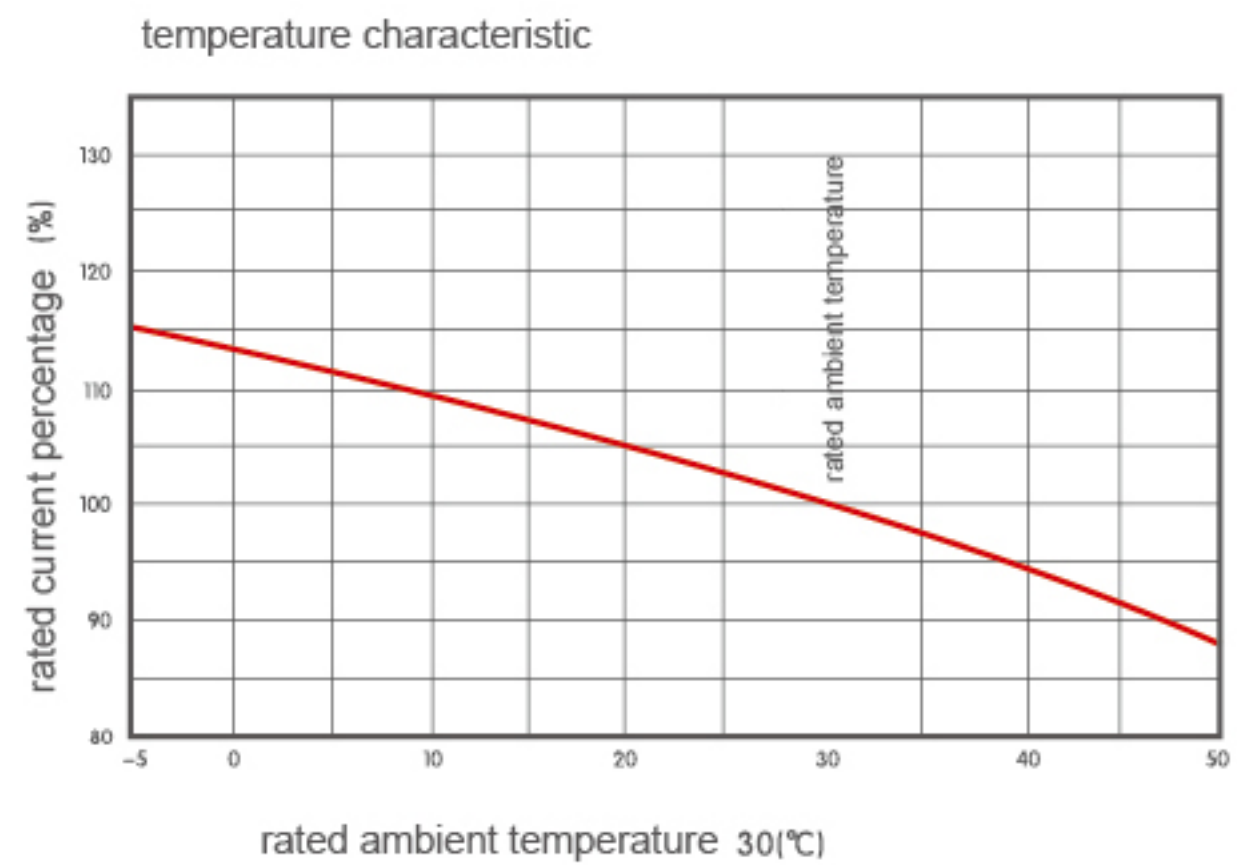
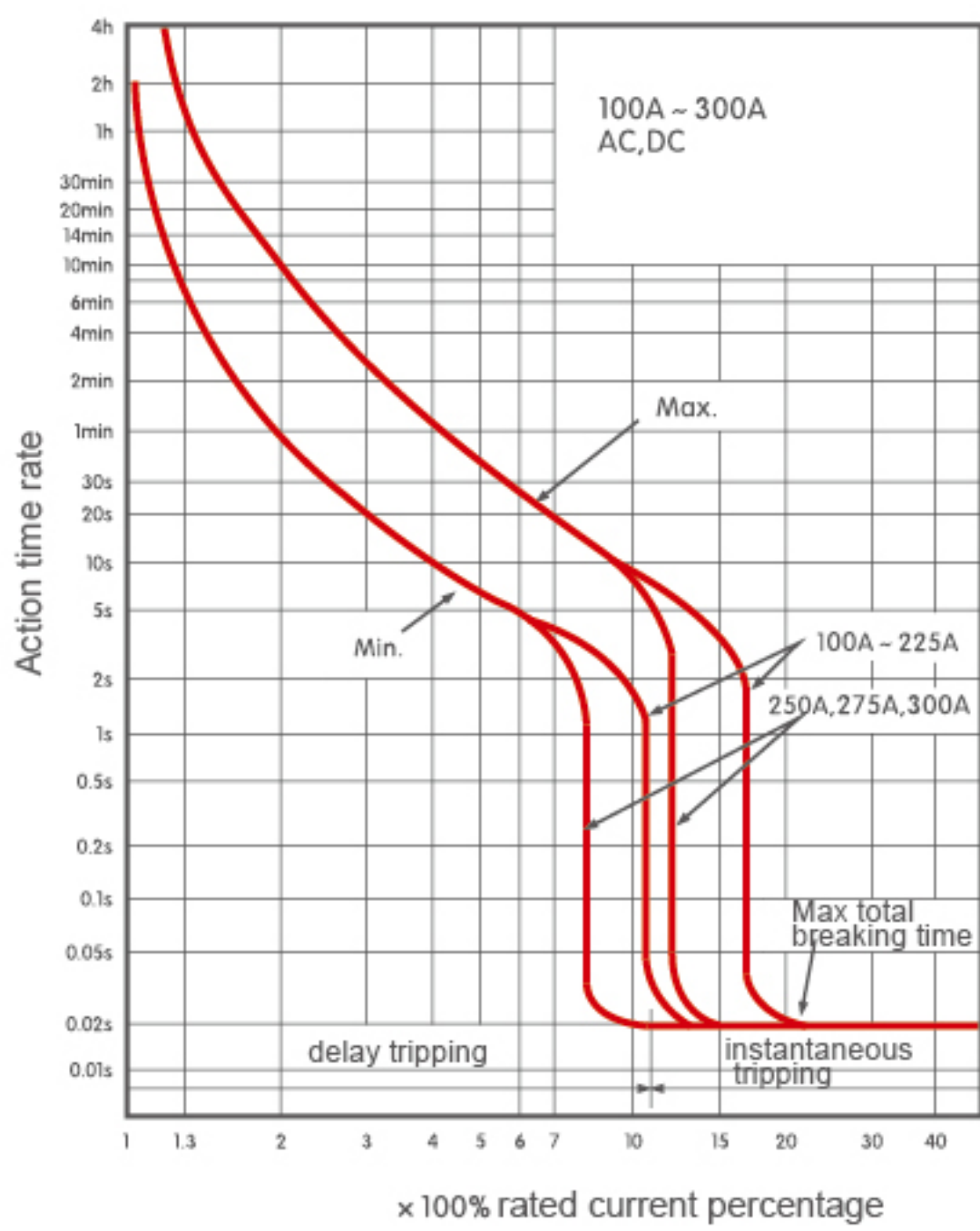
EBS9M-125C, EBS9M-125S



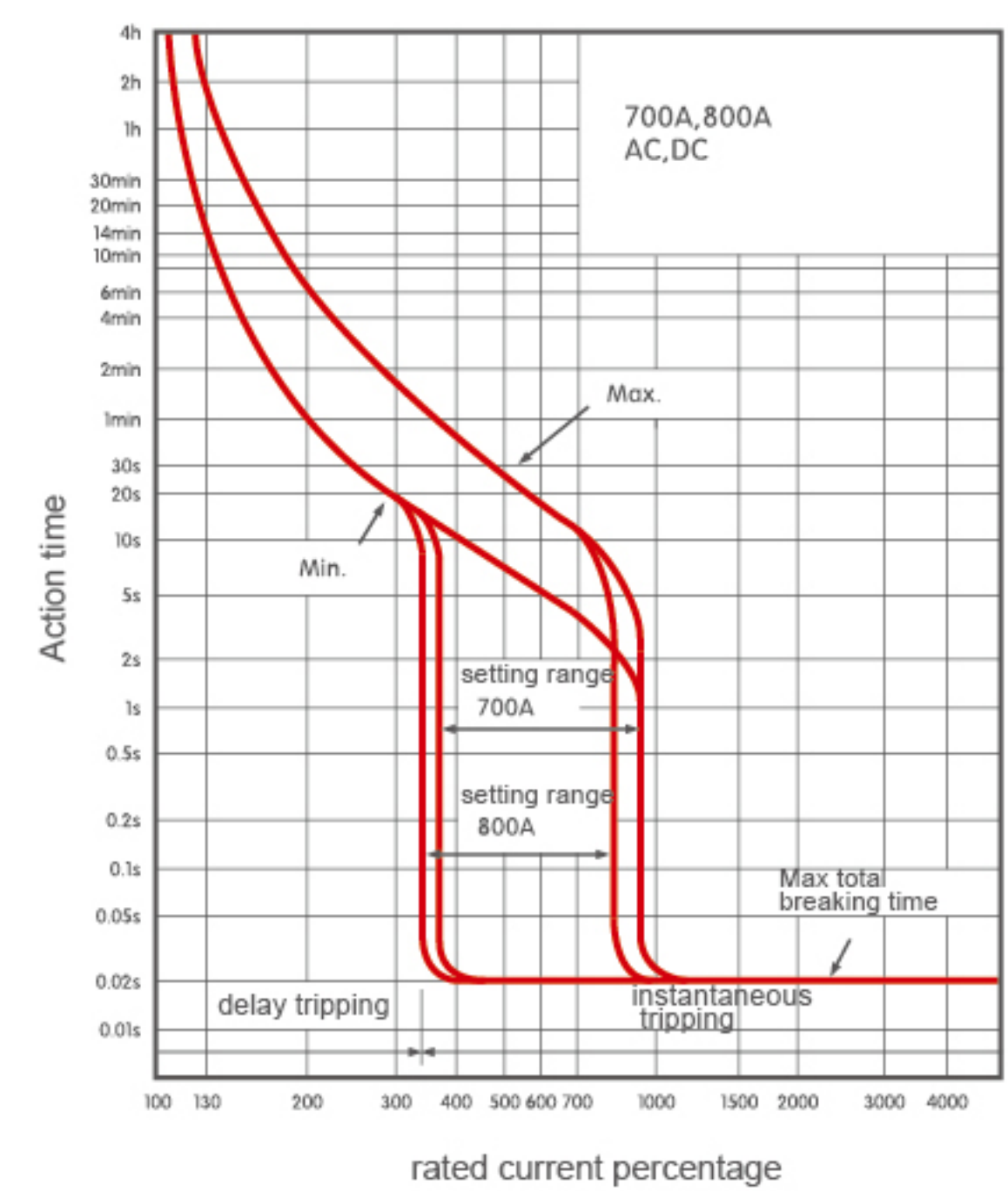
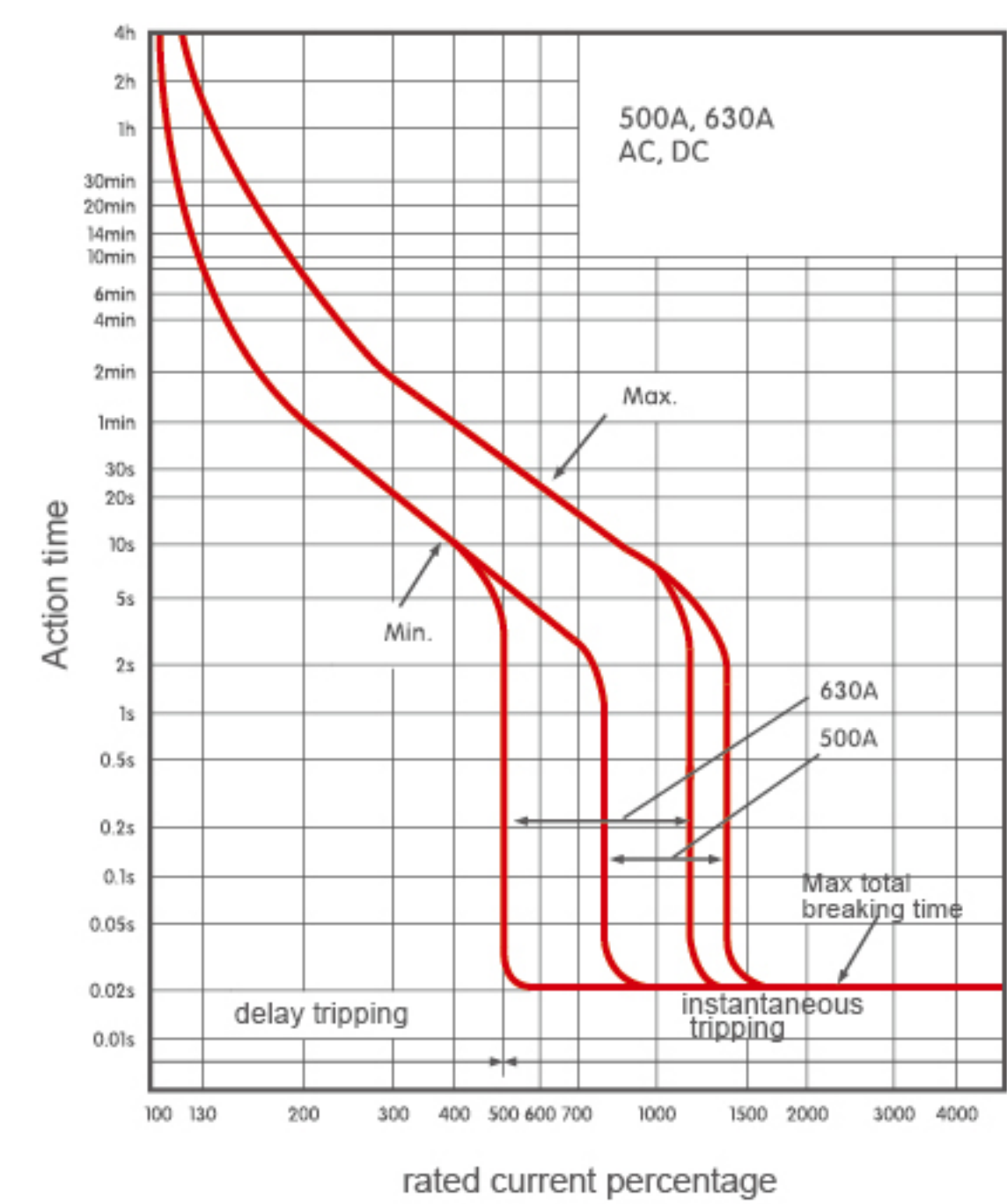
EBS9M-160C, EBS9M-160S, EBS9M-160M, EBS9M-160H



EBS9M-300C, EBS9M-300S, EBS9M-300M, EBS9M-300H



EBS9M-800S, EBS9M-800H



EBS9M-630C, EBS9M-630S, EBS9M-630H

