FAMCO
هایپرصنعت

EBASEE

EBS9M Series

Moulded Case Circuit Breaker

Nomenclature

EBS9M-125CP/4300-125A2AQ1D1Q2

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)	Operation Mode P: Motor operator Z: Rotary handle W: Direct operation

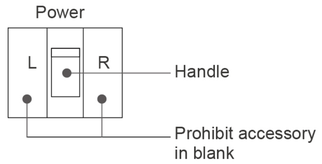
Breaking Capacity Icu/Ics (kA)	C	S	M	H
125	18/10	30/15		—
160	25/15	35/25	50/35	70/50
300	25/15	35/25	50/35	70/50
630	35/25	50/35		70/50
800	—	50/35	—	70/50

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 operating mechanism D1: 220V AC D2: 230V AC D3: 380V AC D4: 400V AC DC3 Electric motor operating mechanism D5: 230V AC D6: 110V AC D7: 220V DC 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

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

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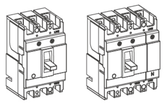
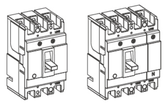
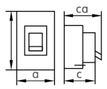
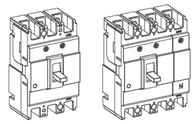
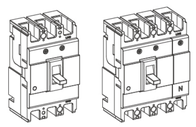
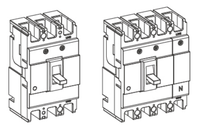
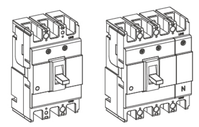
روبـروی پالایشگاه نفت پارس، پلاک ۱۲

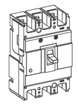
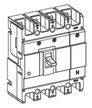
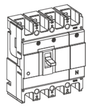
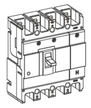
Main Performance

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

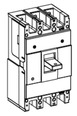
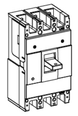
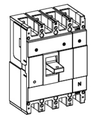
● **with optional accessories**

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**

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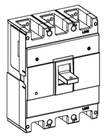
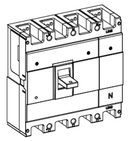
800	
EBS9M-800S	EBS9M-800H
3,4	3,4
	
500, 630, 700, 800	500, 630, 700, 800
400V AC	400V AC
690V AC	690V AC
50/35	70/50
1500	1500
4000	4000
210-275-105-155	210-275-105-155
280-275-105-155	280-275-105-155
9.5	9.5
12.5	12.5
●	●
●	●
Electromagnetic type	Electromagnetic type

● **with optional accessories**

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):

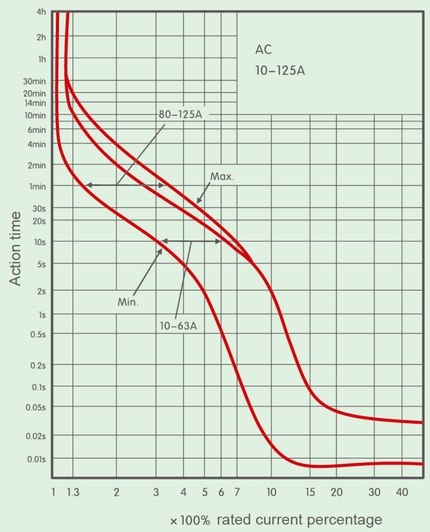
Testing current type	Setting multiple current	Action time	Initial state
		In≤800	
Appointed non tripping current	1.0	≥2h	Cold state
Appointed tripping current	1.2	＜2h	Thermal state

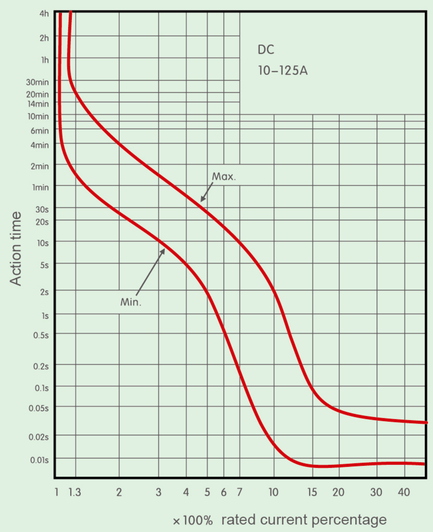
3.Operation characteristic of short-circuit state:

＞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%

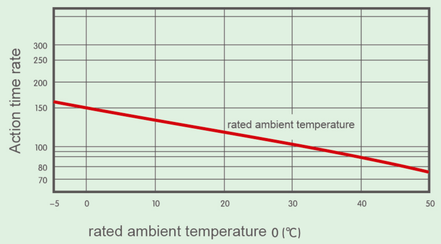
Tripping Characteristic

EBS9M-125C, EBS9M-125S

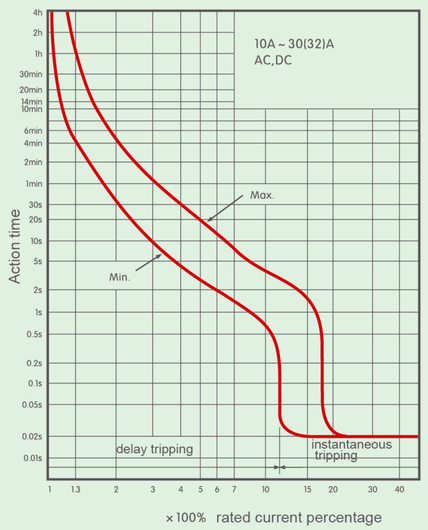


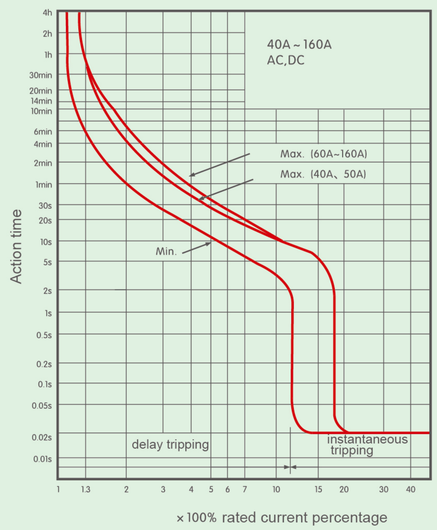


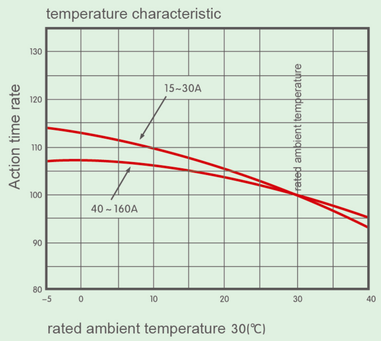
temperature characteristic



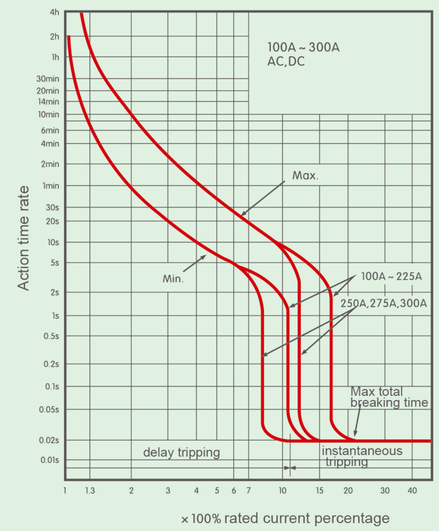
EBS9M-160C, EBS9M-160S, EBS9M-160M, EBS9M-160H

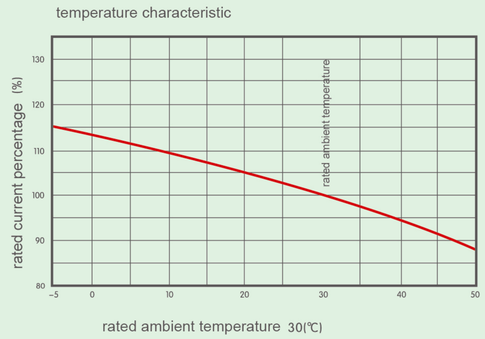




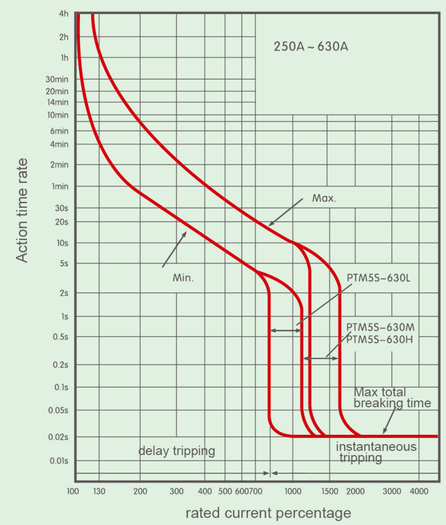


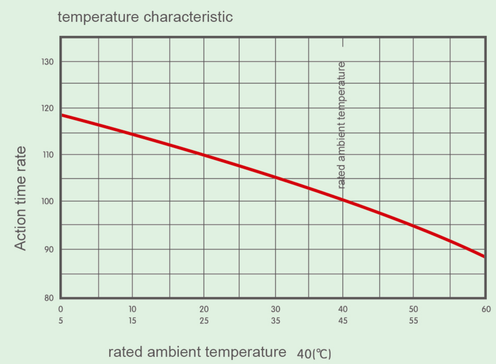
EBS9M-300C, EBS9M-300S, EBS9M-300M, EBS9M-300H





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





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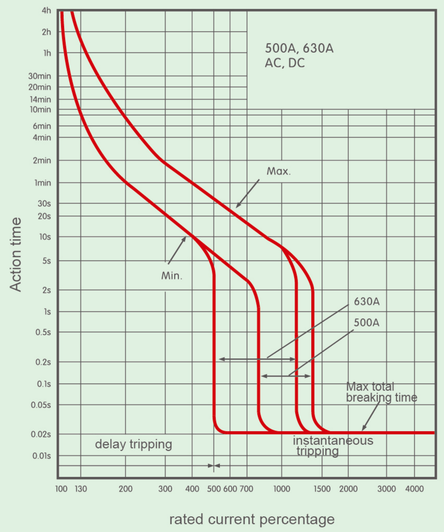
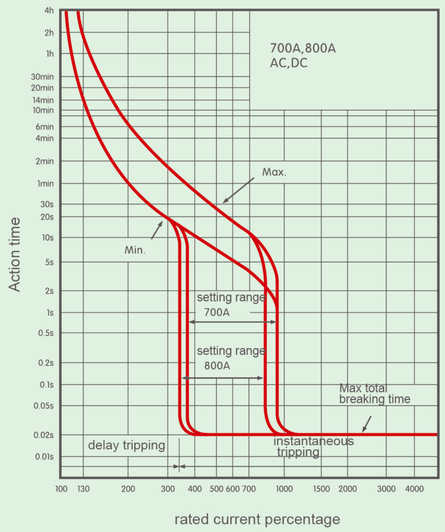
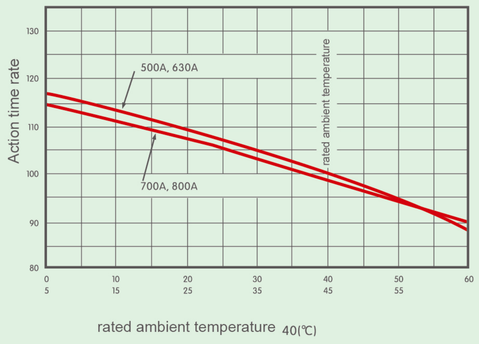
روبـروی پالایشگاه نفت پارس، پلاک ۱۲

EBS9M-800S, EBS9M-800H





temperature characteristic



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