






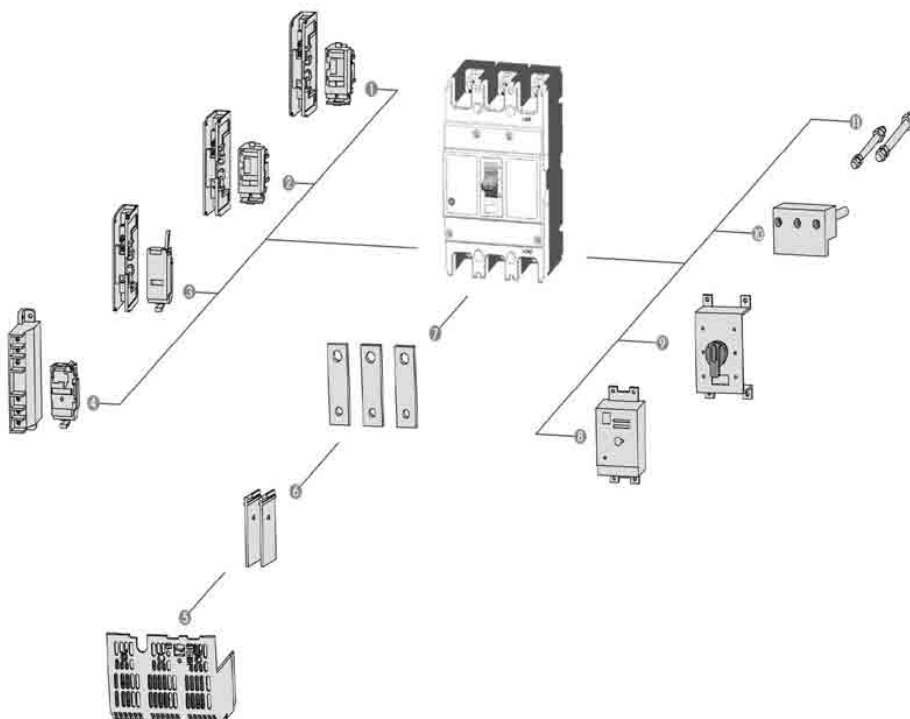


<b>MP thermal overload technical data sheet</b>																	
Frame current (A)		125			160			250			400		630		800		
Model		MP 125C	MP 125S	MP 125H	MP 160C	MP 160S	MP 160H	MP 250C	MP 250S	MP 250H	MP 400S	MP 400H	MP 630S	MP 630H	MP 800S	MP 800H	
Pole number		1, 2, 3, 4			2, 3, 4			3, 4			3, 4		3, 4		3, 4		
Rated current (A)		10, 16, 20, 32, 25, 40, 50, 63, 80, 100, 125			63, 80, 100, 125, 140, 160			100, 125, 140, 160, 180, 200, 225, 250			250, 315, 350, 400		250, 315, 350, 400, 500, 630		500, 630, 700, 800, 1000, 1250		
Rated voltage (V)		AC400V			AC400V			AC400V			AC400V		AC400V		AC400V		
Rated insulation voltage (V)		AC1000V			AC1000V			AC1000V			AC1000V		AC1000V		AC1000V		
Short-circuit breaking capacity (KA)Icu/Ics	AC400V	10/15	18/15	25/18	20/15	25/18	35/25	25/15	25/18	35/25	35/25	50/35	35/25	50/35	50/35	65/65	
Operating cycle number	Electrical life	6000			3000			3000			2000		2000		1500		
	Mechanical life	9000			7000			7000			4000		4000		4000		
Outline dim(mm)	1P	25-130-68-90			-	-	-										
a-b-c-ca	2P	50-130-68-90			60-155-68-90		60-155-88-115										
	3P	75-130-68-90			90-155-68-90		90-155-88-115	105-165-68-92	105-165-88-115		140-257-103-155		140-257-103-155		210-275-103-155		
	4P	100-130-68-90			120-155-68-90		120-155-88-115	140-165-68-92	140-165-88-115		184-257-103-155		184-257-103-155		280-275-103-155		
Weight (kg)	1P	0.32	-	-	-	-	-										
	2P	0.5	0.55	1	1.1	1.5	1.7	5.5	5.7	9.5							
	3P	0.55	0.65	1.1	1.2	1.9	2.1	7	7.5	12.5							
	4P	0.65	0.8	1.4	1.5												
Electric operating device (MD)		•			•			•			•		•		•		
External driving operating handle		•			•			•			•		•		•		
Automatic release		Thermal electromagnetic type			Thermal electromagnetic type			Thermal electromagnetic type			Thermal electromagnetic type		Thermal electromagnetic type		Thermal electromagnetic type		

- ◆ It can withstand the effect of moulds;
- ◆ It can withstand the effect of nuclear radiation;
- ◆ The max inclination is 22.5°C.
- ◆ It still can work reliably when the ship subjects to normal vibration;
- ◆ It can still work reliably if the product subjects to the earthquake (4g).
- ◆ Places where the surrounding medium is free from explosion danger, and far away from gas or conductive dust that would erode the metal or destroy the insulation;
- ◆ Keep away from rain or snow.

## Components of circuit breaker

1 Auxiliary switch	5 Terminal cap	9 Manual operation
2 Alarm switch	6 Phase partition	10 Plug-in type back-board wiring
3 Shunt release	7 Front-board wiring	11 Back-board wiring
4 Undervoltage release	8 Electric operation	



- $tR$ : Overload long delay setting time, factory default: 60s;
- $t_{sd}$ : Short-circuit short delay setting time, factory default: 0.1s;
- $I_p$ : Overload pre-alarm setting current, factory default:  $0.85 \cdot I_R$ ;

## Intelligent communication port (COM):

1: Power supply input DC24V(+)	6: 485B-
2: Power supply input DC24V(-)	7: Closing and opening common terminal of electric operating mechanism
3: 485A+	8: Closing and opening common terminal of electric operating mechanism
4: 485A+	9: Opening of electric operating mechanism
5: 485B-	10: Closing of electric operating mechanism

## Panel With Residual Current Protection

1: Setting current $I_n$ overload indicator, the red light will go on when the operation current is $\geq 105\% I_n$	
2: Pre-alarm current $I_p$ indicator, the yellow light starts flashing when operation current is $\geq I_p \times 90\%$	
3: When operation current is $\geq 60\% \times I_n$ setting current, the green light will go on	
4: The code switch for residual current setting	
5: The code switch for leakage action time setting	