

ESM1-125

SOLAR DC MOULDED CASE CIRCUIT BREAKER(DC MCB)



Application

ESM1 series Moulded Case Circuit Breaker is designed to distribute power and protect the circuit and power equipment against overload in solar system. It is apply to rating current 1250A or less, direct current rating voltage 1500V or less.

Products according IEC60947-2, GB14048.2 standaed.

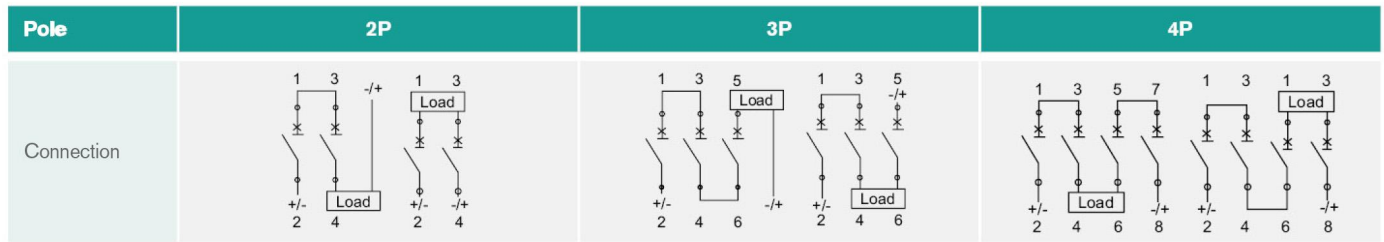
Specifications

Model	ESM1-125	ESM1-250	ESM1-400	ESM1-630	ESM1-800	ESM1-1250	
Rated Continuous Current	125	250	400	630	800	1250	
Rated Current In (A)	16 20 25	100 125	250 315	400 500	630 700	800	
	32 40	140 160	350 400	630	800	1000	
	50 63 80	180 200				1250	
	100 125	225 250					
Rated Operating Voltage Ue (V) DC	550V	550V	750V	750V	750V	750V	
	750V	750V	1000V	1000V	1000V	1000V	
	1000V	1000V	1500V	1500V	1500V	1500V	
	1500V	1500V					
Rated Insulation Voltage Ui (V)	1500V	1500V	1500V	1500V	1500V	1500V	
Uimp (kV)	8V	8kV	8kV	8kV	8kV	8kV	
Test Voltage One Minute (V)	3550	3550	3550	3550	3550	3550	
Breaking Capacity (kA) Icu 1cs=75% Icu)	L M H L M H L M H L M H L M H L M H	25 35 50 35 50 65 35 50 65 35 50 65 50 65 80 50 65 80	25 25 50 35 35 65 35 35 65 35 35 65 50 50 80 50 50 80	25 15 50 35 25 65 35 25 65 35 25 65 50 35 80 50 35 80	25 10 50 35 15 65 35 15 65 35 15 65 50 20 80 50 20 80		
	250V	25 35 50 35 50 65 35 50 65 35 50 65 50 65 80 50 65 80					
	500V	25 25 50 35 35 65 35 35 65 35 35 65 50 50 80 50 50 80					
	750V	25 15 50 35 25 65 35 25 65 35 25 65 50 35 80 50 35 80					
1000V	25 10 50 35 15 65 35 15 65 35 15 65 50 20 80 50 20 80						
Mechanical Life	7000	7000	4000	4000	2500	2000	
Electrical Life	2000	2000	1000	1000	800	600	
Breaking Times (ms)	20	20	20	20	20	20	
Installation Location	Any place						
Isolator Capacity	Yes						
Standard	IEC 60947-2 IEC60947-1 GB 14048.1 GB 14048.2						
Temperature (°C)	-25 ~+50°C						
Protection Degree	IP20						
Accessory	OF/SD/MX						
Arcing Distance (mm)	≥50						

Application conditions

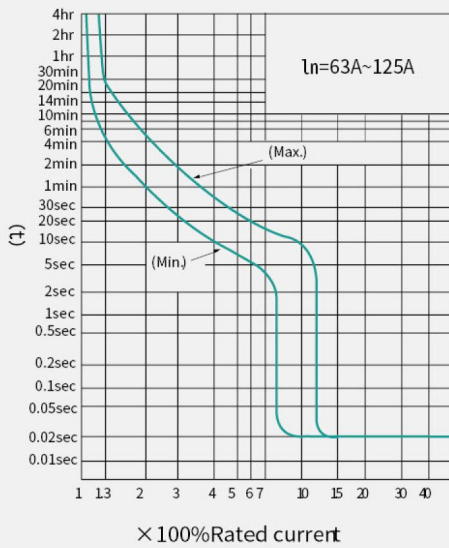
- Altitude : less than 2000m (please specify when it's higher than 2000m).
- Ambient temperature : -40~+70
- Dampproof Moisture-resistant

Connection

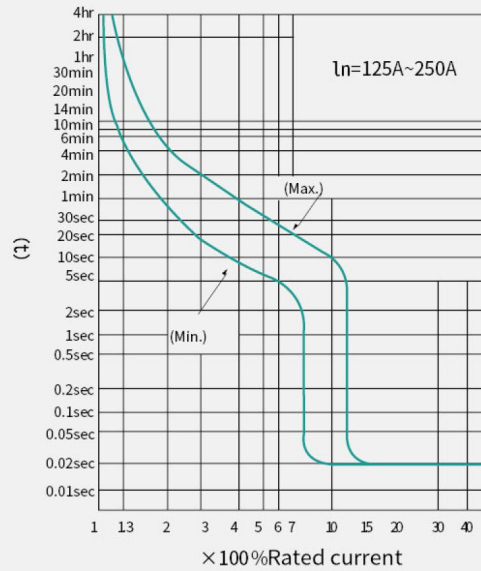


Characteristic Curve

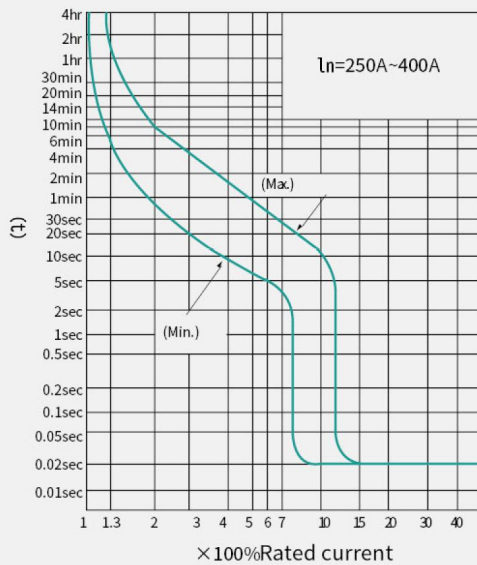
ESM1-125



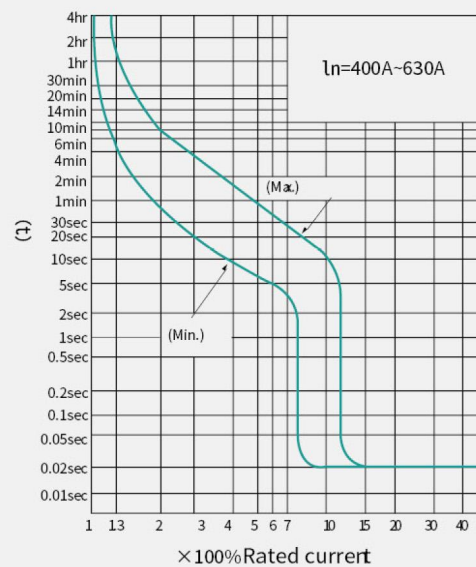
ESM1-250



ESM1-400



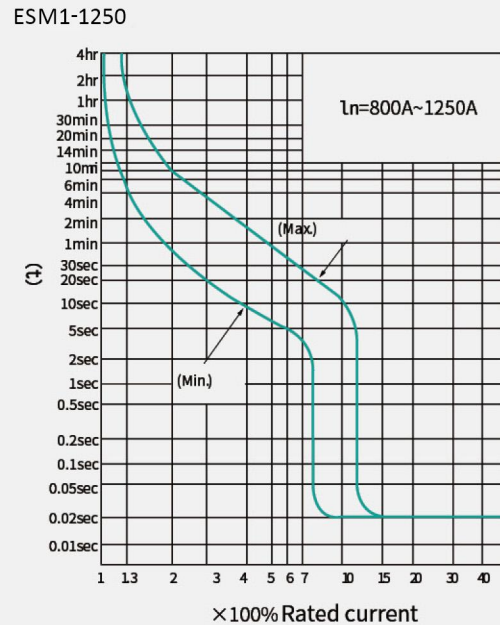
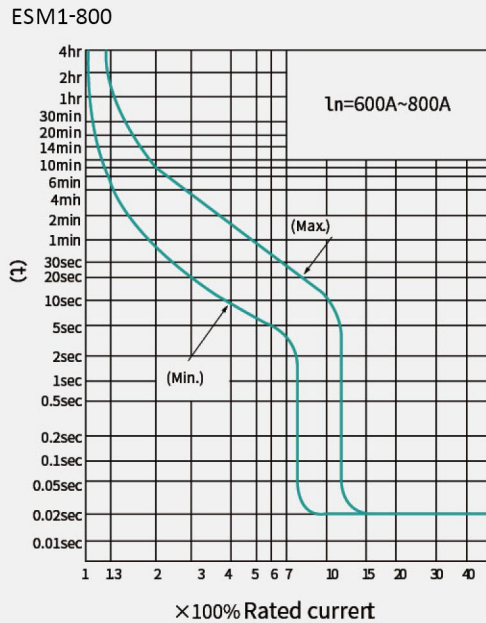
ESM1-630



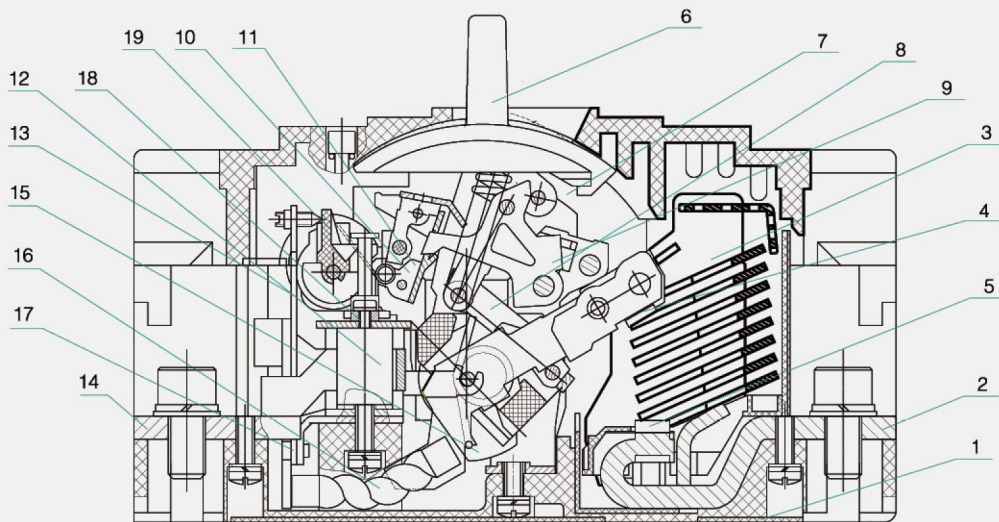
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SOLAR DC MOULDED CASE CIRCUIT BREAKER(DC MCCB)

Characteristic Curve



Details



- | | | | |
|-------------------|--------------------|----------------------|----------------------------------|
| 1.Shell | 6.Handle | 11.Chain part | 16.Soft linking |
| 2.Up wiring board | 7.Lever | 12.Release | 17.Thermoelement |
| 3.Arc chamber | 8.Connecting lever | 13.Bimetal | 18.Upper putt |
| 4.Moving contact | 9.Jump pin | 14.Down wiring board | 19.Short time delay institutions |
| 5.Fixed contact | 10.Chain part | 15.Spindles | |