DC series

Solar DC Moulded Case Circuit Breaker

SNM1-125PV

SUNNOM

SNM1-125PV

SOLAR DC MOULDED CASE CIRCUIT BREAKER (DC MCCB)

Application

SN1-PV 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 standard.

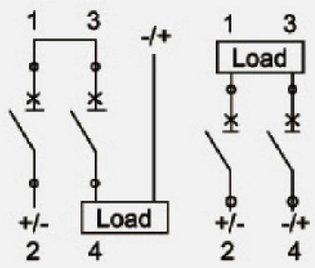
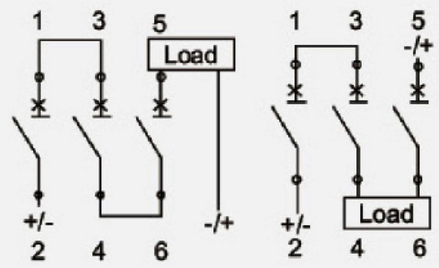
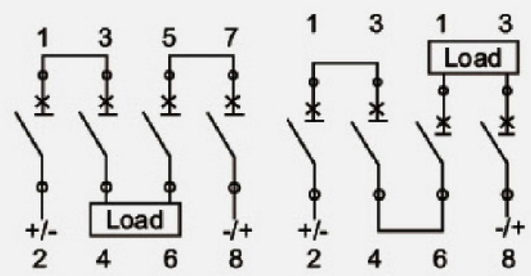
Specifications

Model		SN1-125PV			SN1-250PV			SN1-400PV			SN1-630PV			SN1-800PV			SN1-1250PV		
Rated Continuous Current		125			250			400			630			800			1250		
Rated Current In (A)		16 20 25 32 40 50 63 80 100 125			100 125 140 160 180 200 225 250			250 315 350 400			400 500 630			630 700 800			800 1000 1250		
Rated Operating Voltage Ue (V) DC		550V 750V 1000V 1500V			550V 750V 1000V 1500V			750V 1000V 1500V			750V 1000V 1500V			750V 1000V 1500V			750V 1000V 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		
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Breaking Capacity (kA) Icu 1cs=75% Icu)	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 (℃)		-25 ~+50℃																	
Protection Degree		IP20																	
Accessory		OF/SD/MX																	
Arcing Distance (mm)		≥50																	

Application conditions

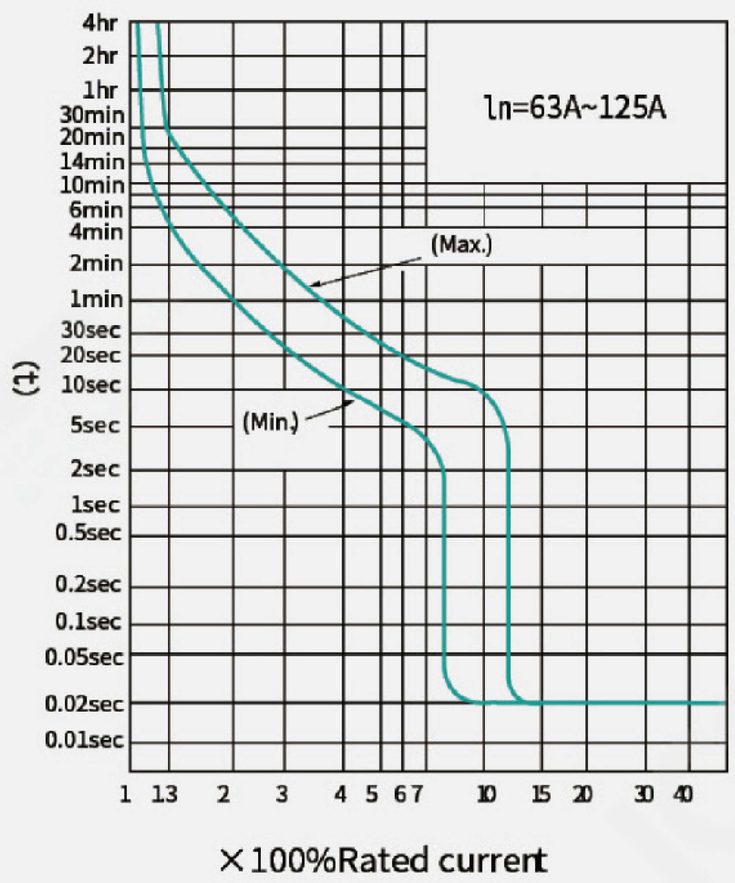
- Altitude : less than 2000m (please specify when it's higher than 2000m).
- Ambient temperature : -40~+70
- Dampproof Moisture-resistant

Connection

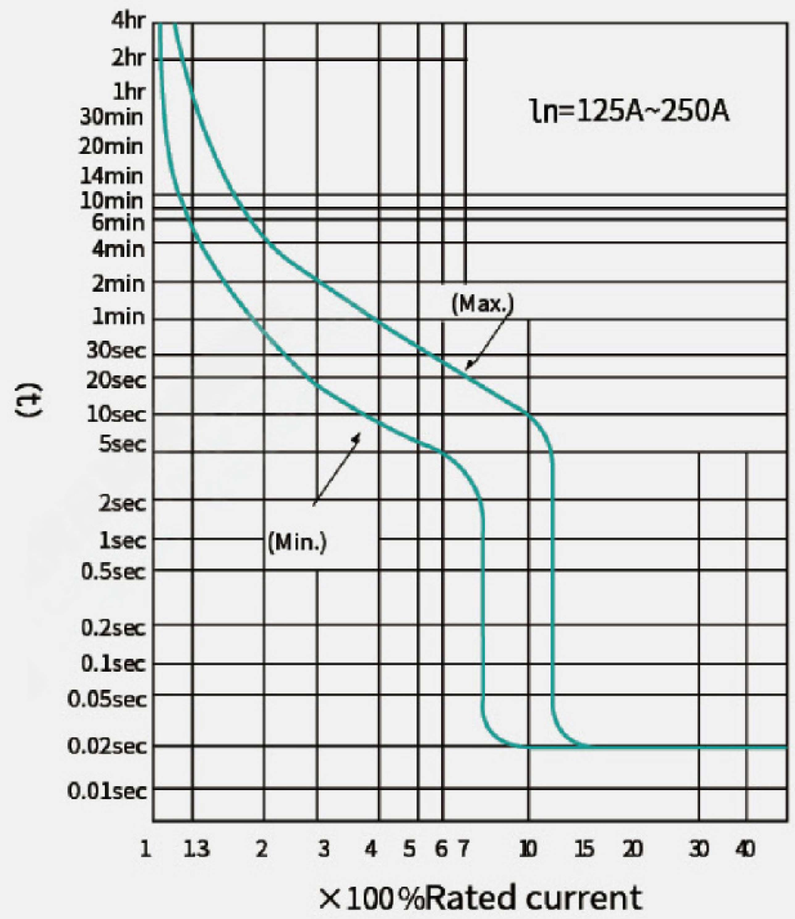
Pole	2P	3P	4P
Connection			

Characteristic Curve

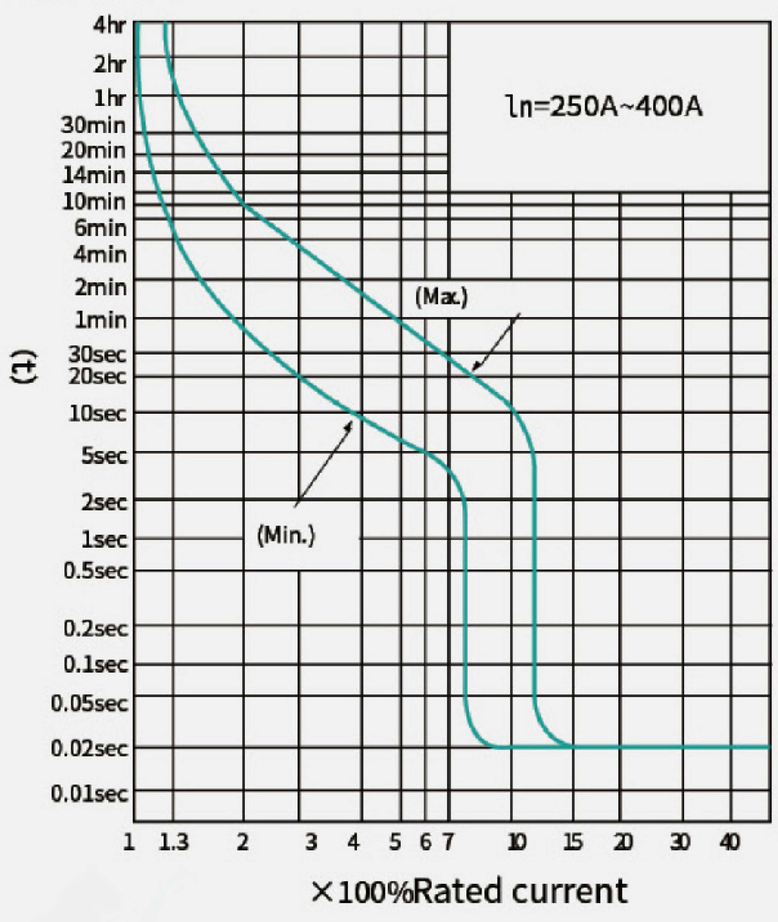
SNM1-125PV



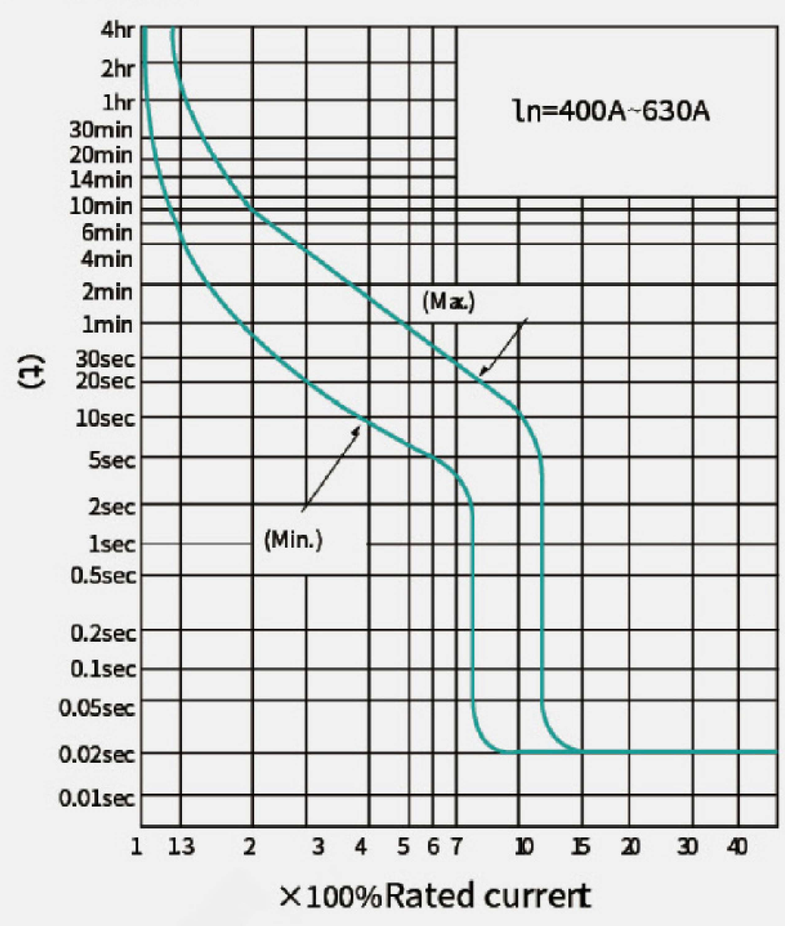
SNM1-250PV



SNM1-400PV



SNM1-630PV



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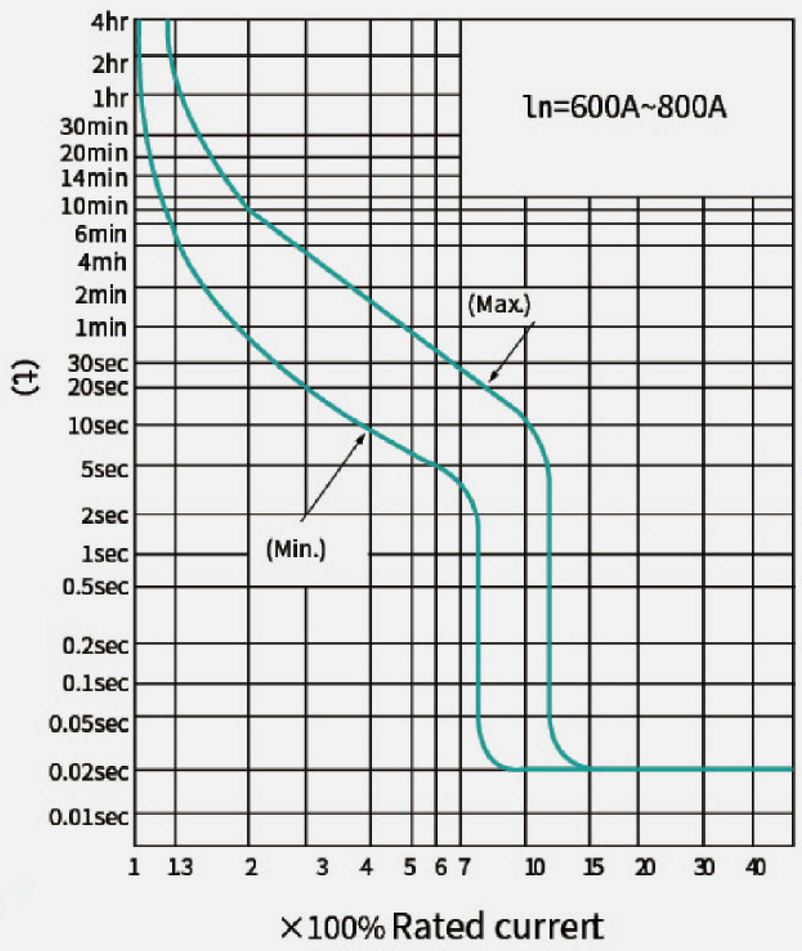
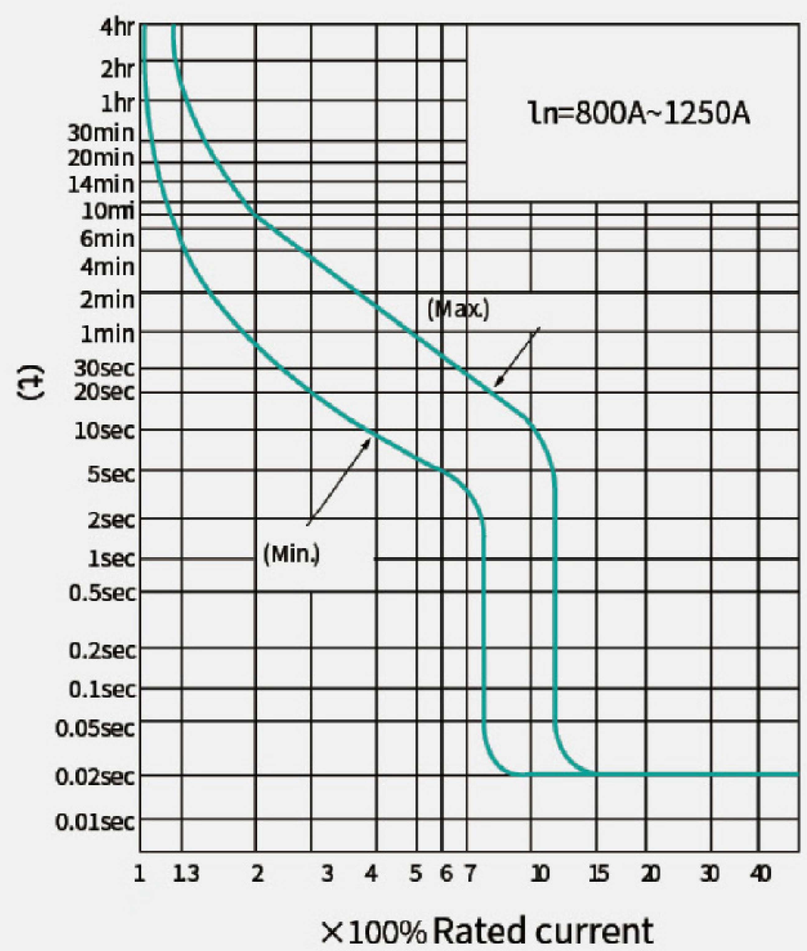
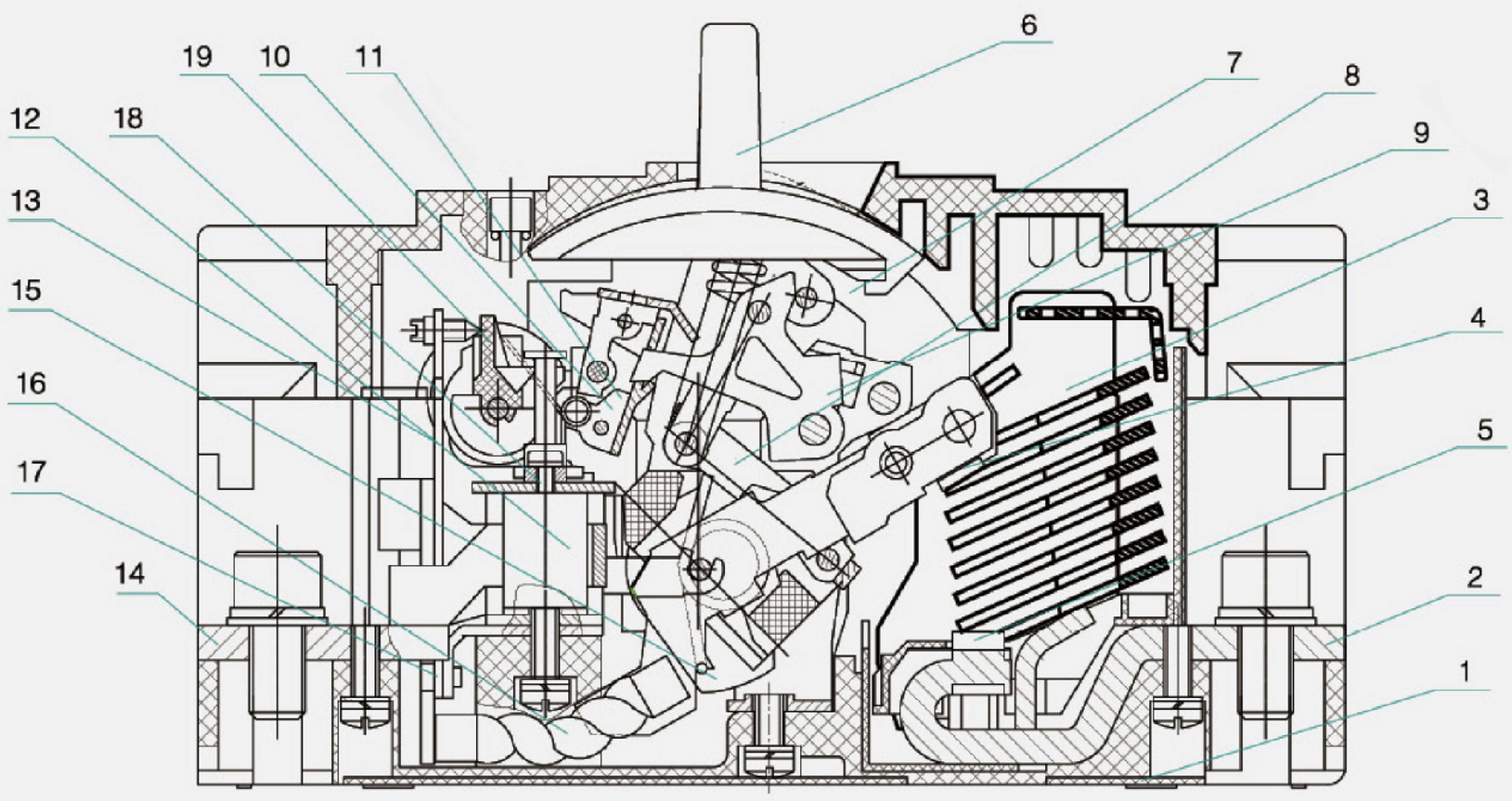
Characteristic Curve





Details



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