

FPVM

Solar DC Moulded Case Circuit Breaker (DC MCCB)



Application

FPVM 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

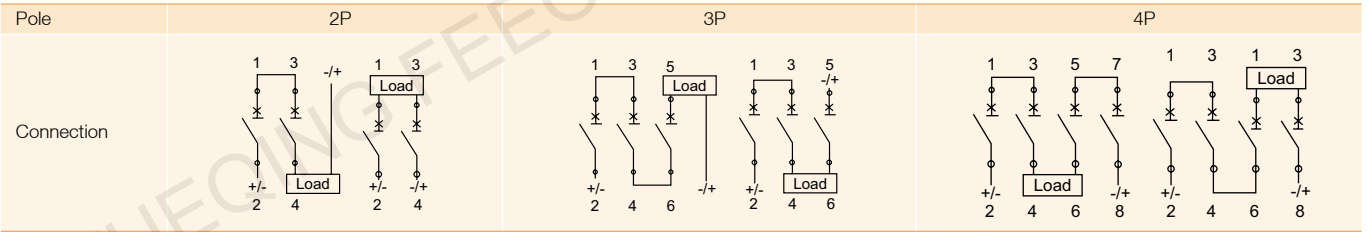
Model	FPVM-125	FPVM-250	FPVM-400	FPVM-630	FPVM-800	FPVM-1250
Rated Continuous Current	125	250	400	630	800	1250
Rated Current In (A)	16, 20, 25, 32, 40, 50, 63, 80, 100, 125	100, 125, 140, 160, 180, 200, 225, 250	250, 315, 350, 400	400, 500, 630	630, 700, 800	800, 1000, 1250
Rated Operating Voltage Ue (V) DC	500V, 550V, 750V, 1000V	500V, 550V, 750V, 1000V	500V, 550V, 750V, 1000V	500V, 550V, 750V, 1000V	500V, 550V, 750V, 1000V	500V, 550V, 750V, 1000V
Rated Insulation Voltage Ui (V)	1000V	1000V	1500V	1500V	1500V	1500V
Uimp (kV)	8kV	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
	250V	25 35 50	35 50 65	35 50 65	35 50 65	50 65 80
	500V	25 25 50	35 35 65	35 35 65	35 35 65	50 50 80
	750V	25 15 50	35 25 65	35 25 65	35 25 65	50 35 80
1000V	25 10 50	35 15 65	35 15 65	35 15 65	50 20 80	50 20 80
Mechanical Life Times	7000	7000	4000	4000	2500	2000
Electrical Life Times	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°C ~+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

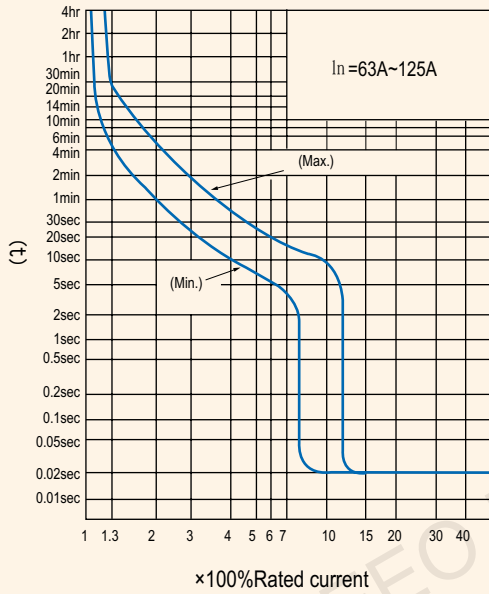
SOLAR DC MOULDED CASE CIRCUIT BREAKER (DC MCCB)

Connection

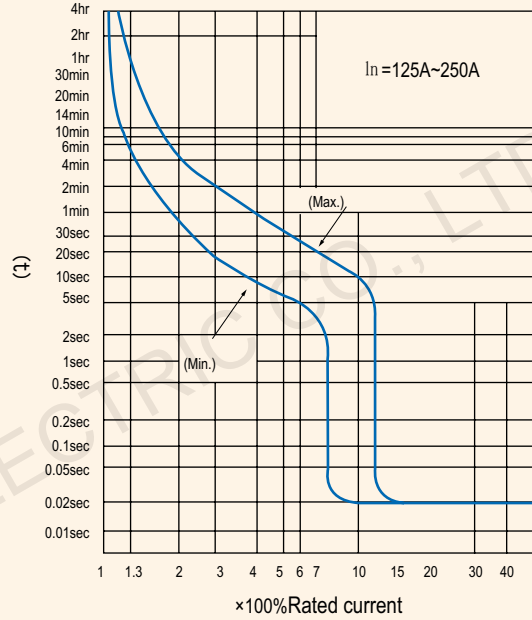


Characteristic Curve

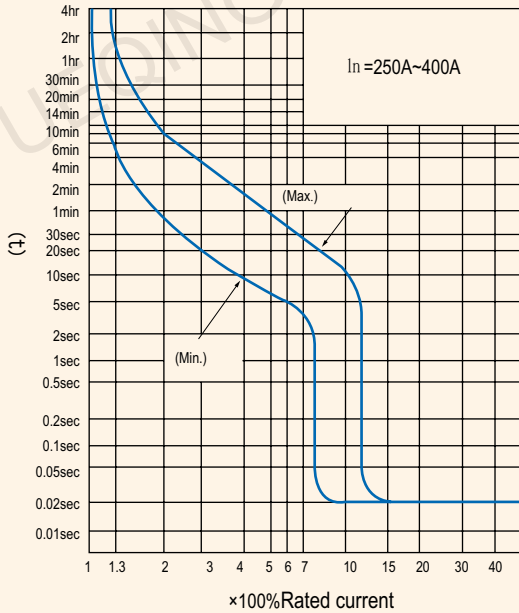
FPVM-125



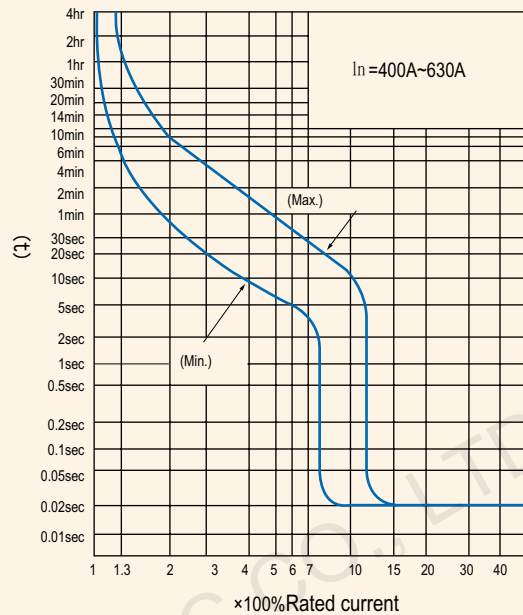
FPVM-250



FPVM-400

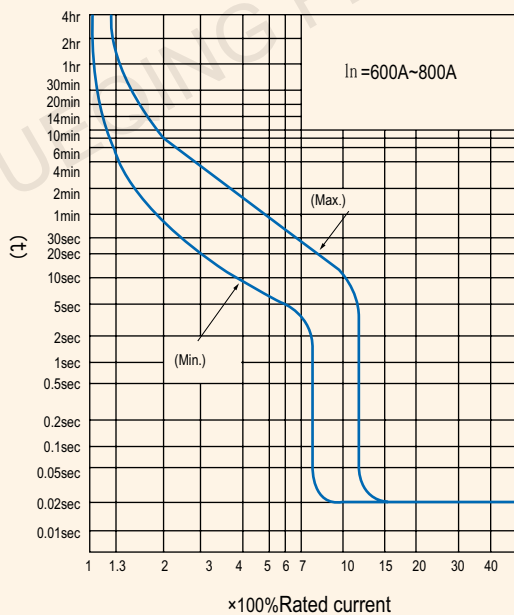


FPVM-630

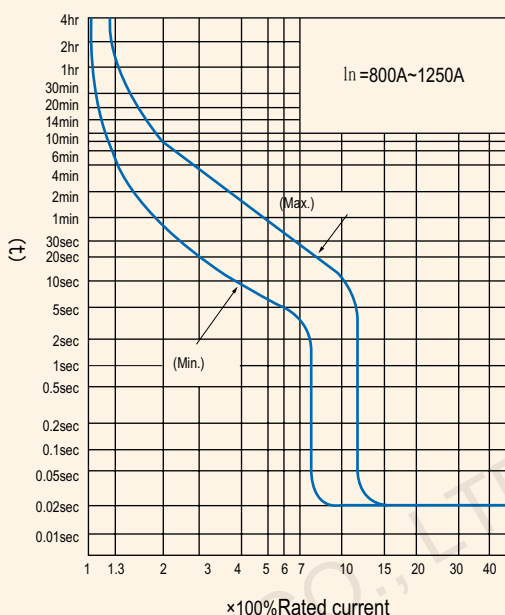


Characteristic Curve

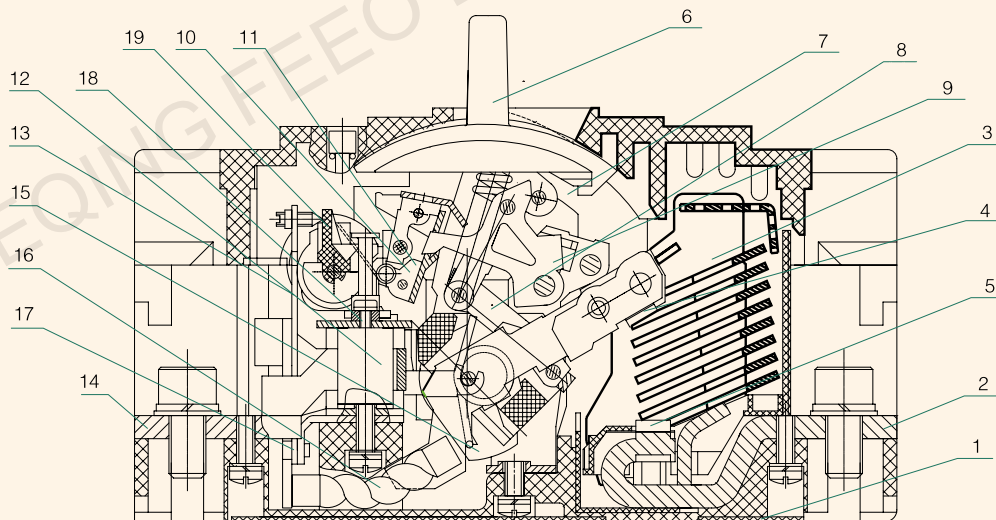
FPVM-800



FPVM-1250



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 | |