SM8-HPV Series DC MCCB

SM8-HPV series photovoltaic special DC molded case circuit breaker is suitable for DC grid circuit with rated voltage up to DC1500V and rated current of 630A. DC circuit breaker has overload long delay protection, short circuit instantaneous protection function, used to distribute electric energy and protect circuit and the power supply equipment is protected from the danger of overload, short circuit, etc.

The operating mechanism of the DC circuit breaker has the functions of quick closing and fast reading segmentation, compact structure, small size and convenient use.

CE TUV SAA IEC ROHS

Specifications

name	model	Attachment code	Attachment installation location	Control voltage
Auxiliary contact	AX	250HPV 630HPV	-	-
Alarm contact	AL	250HPV 630HPV	-	-
Shunt release	SHT	250HPV 630HPV	right side installatio n	DC24V/AC230V/AC400V

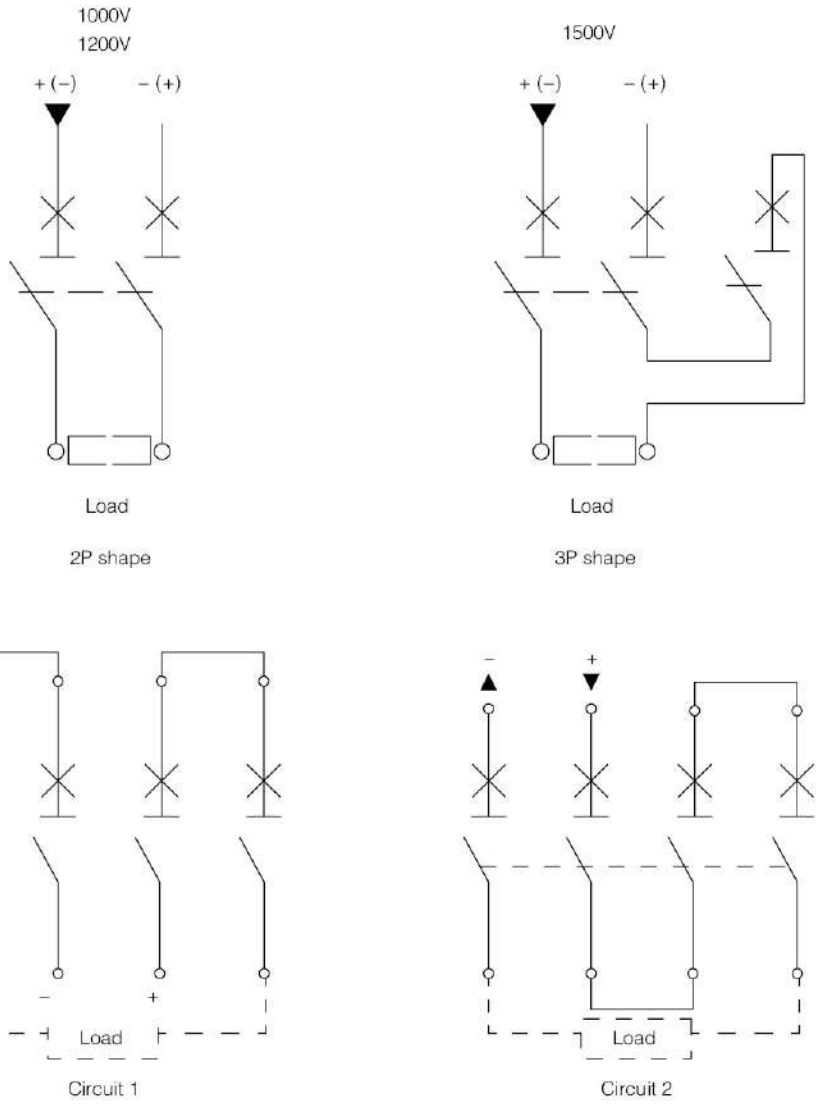
The main technical parameters

Product number		SM8-250HPV /2 1000V SM8-250HPV /2 1200V	SM8-250HPV 1500V	SM8-630HPV 1250V SM8-630HPV 1500V
product name		PV DC MCCB		
Rated operating voltage Ue		DC1000V DC1200V	DC1500V	DC1250V DC1500V
Rated insulation voltage Ui		1500V	1500V	1500V
Rared Current In		63A,80A,100A,125A,160A,200A,250A	63A,80A,100A,125A,160A,200A,250A	400A,500A,630A
Rated impulse voltage Uimp		12kV	12kV	12kV
Number of poles		2	3	4
Trip unit type		Thermomagnetic(Not adjustable), TMD Fixed		
Rated ultimate short-circuit segmentation capability Icu		Ue1200v 10kA Ue1000v 16kA	Ue1500v 20kA	Ue1250v 40kA
Running segmentation capability Ics		Ue1200v 7.5kA Ue1000v 12kA	Ue1500v 15kA	Ue1500v 30kA
Protective function	Instantaneous protection Ii	6In		6In
Dimensions W×H×D		90×200×86mm	135×200×86mm	310×240×112.5mm

Thermal protection

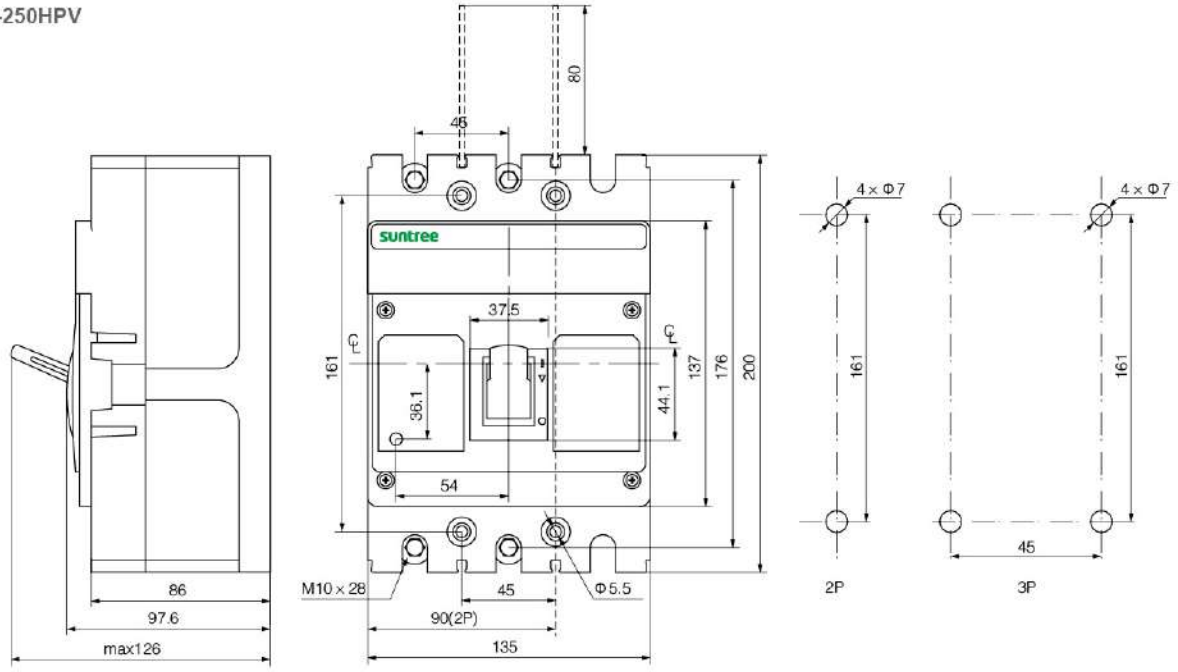
Serial number	Experimental current	I/Ir	Appointed time	Initial state
1	Conventional non-tripping current	1.05	>2h(In>63A)	Cold state
2	Conventional discharge current	1.3	≤2h(In> 63A)	After the test according to the serial number 1

Wiring diagram



Shape and Installation Dimensions(mm)

SM8-250HPV



Tolerance Table

Base size		Tolerance range
>	<	
0	30	±0.2
30	50	±0.3
50	80	±0.5
80	120	±0.6
120	180	±0.7
180	250	±0.8
250	315	±1.0

SM8-630HPV