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SAHB

PHOTOVOLTAIC PRODUCTS

INTRODUCTION
Your Best Solar
Cost-Effective Brand Choice



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ZHEJIANG SHIBA ENERGY CO.,LTD

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www.solarsahb.com

SAVED

**Your Best Solar
cost-effective brand choice**

10Year
Experience

20+ Distributor
Around World

5000+
Solar projects

COMPANY ZHEJIANG SHIBA ENERGY CO.,LTD **Profile**

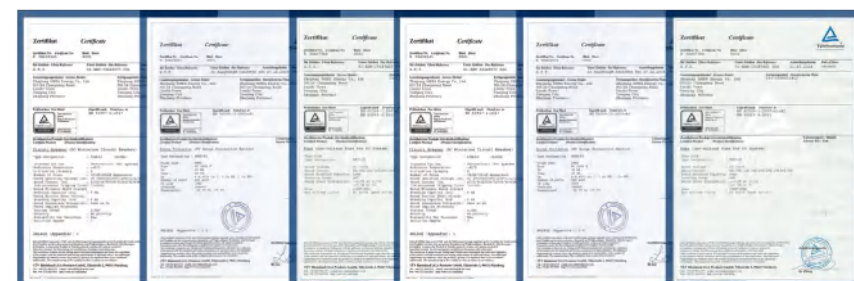
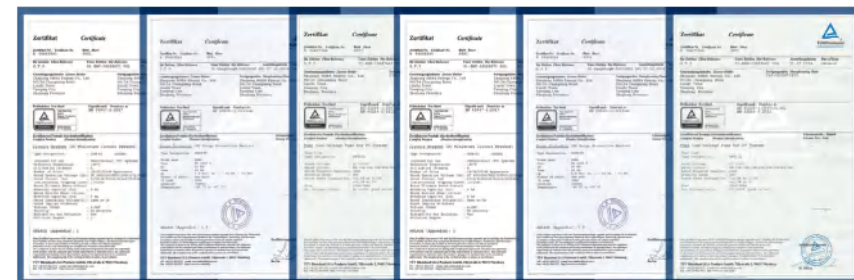
ZHEJIANG SHIBA ENERGY CO.,LTD is a manufacturer which focus on high cost-effective pv componets(DC Circuit Breaker, Fuse, Surge Protector, Isolator Switch etc) for solar system. Our factory have more than 10 years production experience with TUV CE ISO certificates. SHIBA not only concern about the quality, but also about how to help customers to develop the their market and save costs.

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PRODUCT list series DC

AC series

Build an international brand and serve the world
is our ambitious goal
Now we are full of pride
On the road of creating a brand
The company has developed an effective brand planning strategy
And idealize the brand to the daily work requirements of each employee to form
an effective system and process
I believe that we will eventually stand in the forest of world brands

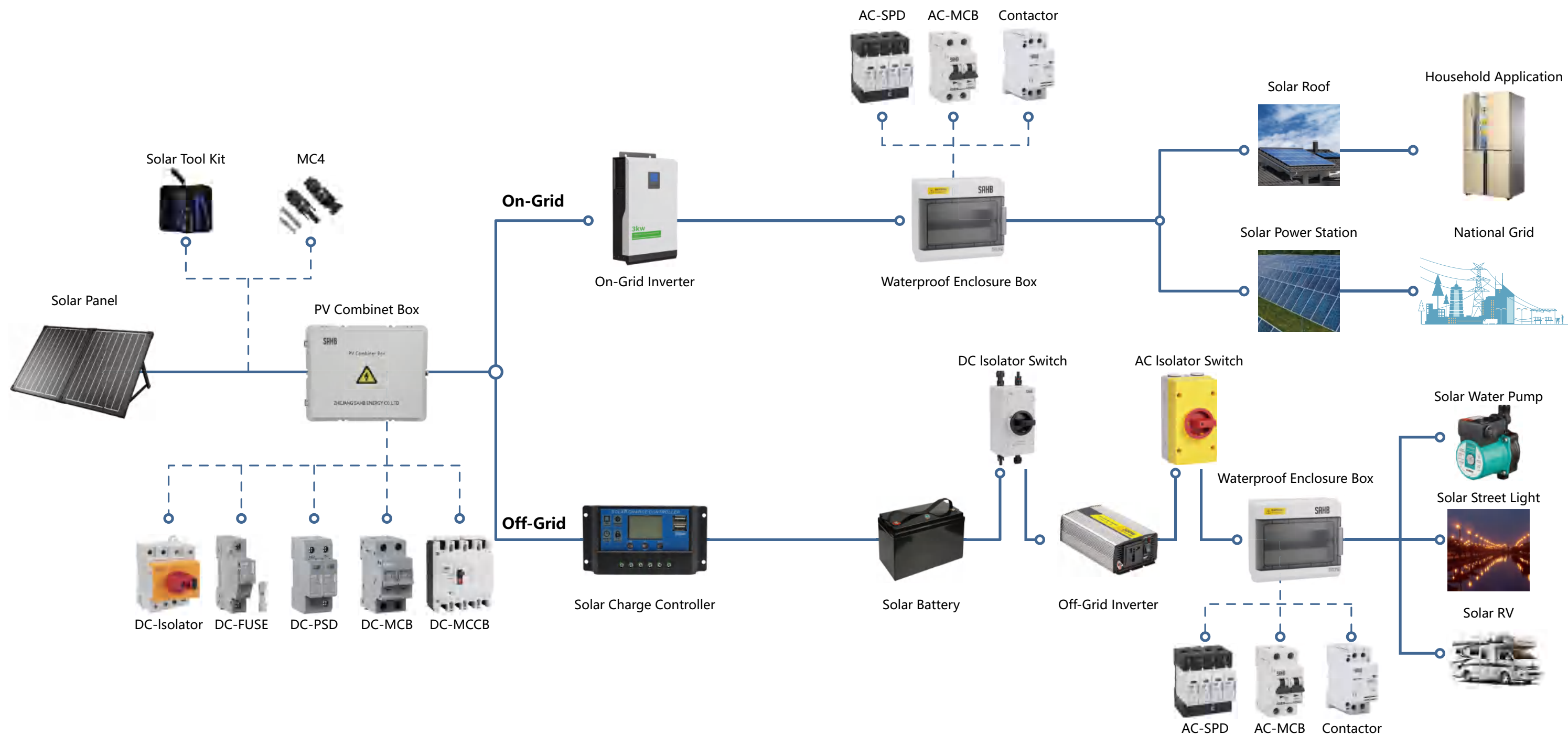


CE RoHS TÜV ISO9001 IEC

SDB-63 Solar DC Mini Circuit Breaker (DC MCB)	01	35	SAB-63 Mini Circuit Breaker (AC MCB)
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SHFU Solar DC 1500V Fuse	22	49	SAHM AC Moulded Case Isolator Switch
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SDIS Solar DC Waterproof Isolator Switch	25	56	SCOS/SDOS Manual Transfer Switch (MTS) Interlock Circuit Breaker
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		68	Tools Solar Tools Kit

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Solar Energy Application Diagram



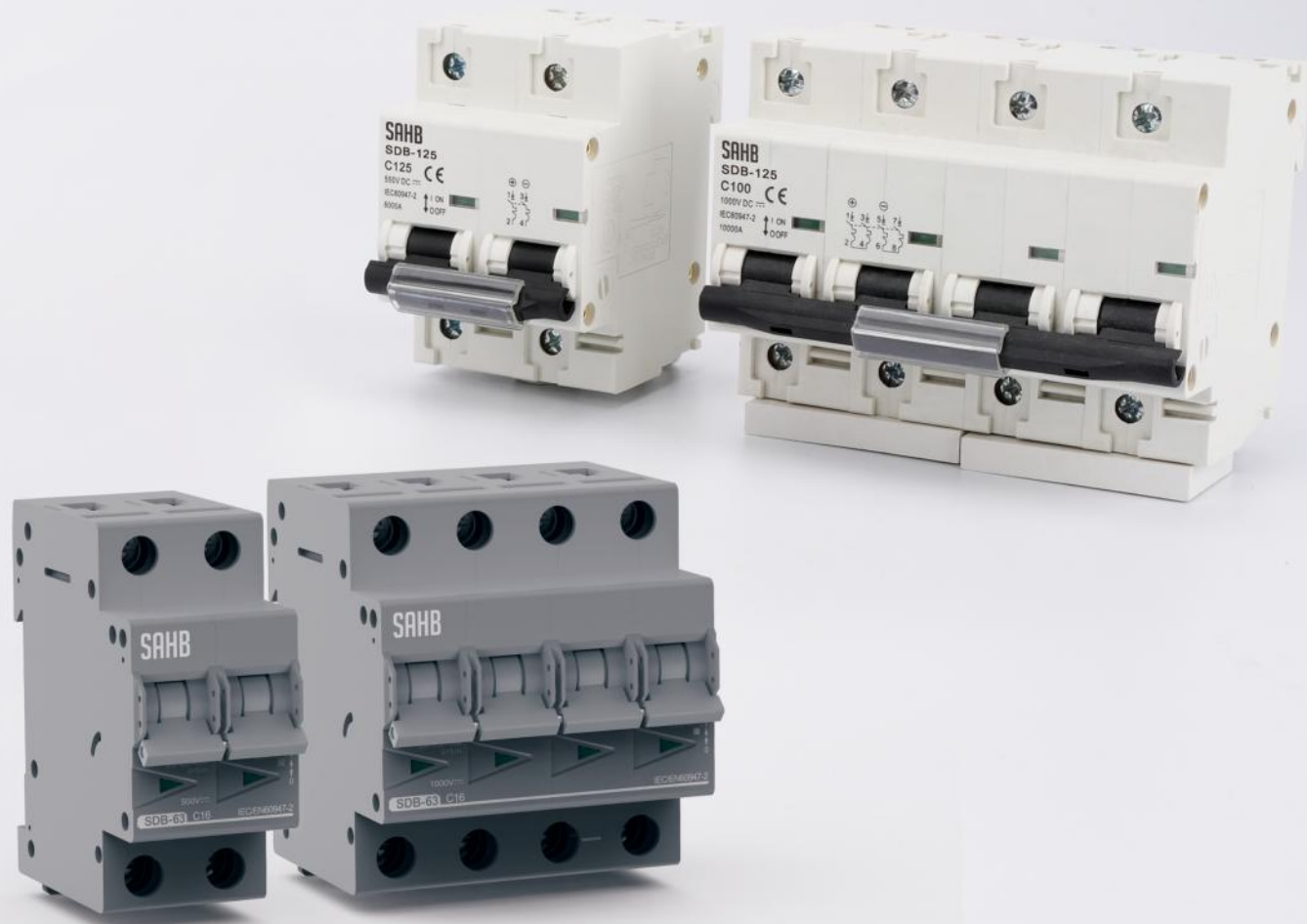
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DC Series

SDB

Solar DC Mini Circuit Breaker (DC MCB)



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SAHB | SDB-63 Solar DC Mini Circuit Breaker (DC MCB)



• Application

SDB-63 DC MCB supplementary protectors are designed to provide overcurrent protection within appliances or electrical equipment, where a branch circuit protection is already provided or not required. Devices are designed for direct current (DC) control circuit applications.

• Specifications

SDB-63 Series Circuit Breaker		SDB-63			
Frame Degree Rated Current (A) 63		1P	2P	3P	4P
Pole		1P	2P	3P	4P
Rated Operating Voltage (V DC)		250	550/800	750	1000/1200/1500
Rated Insulation Voltage U_i (V DC)		1200V			
Rated Current I_n (A)		3,6,10,16,20,25,32,40,50,63A			
Rated Impact Voltage U_{imp} (kV)		4			
Ultimate Breaking Capacity I_{cu} (kA)		6			
Run Breaking Capacity I_{cs} (% I_{cu})		100%			
Curve Type		C			
Trip Type		Thermal-magnetic			
Mechanical	Actual average value	7800			
	Standard value	7800			
Electric	Actual average value	200			
	Standard value	300(accord to TUV standard)			

• Control and Indication

Shunt release (SHT)	Option
Undervoltage release (UNT)	
Auxiliary contact (AX)	
Alarm contact (AL)	

• Condition and Installation

Wiring capacity (mm ²)	$I_n \leq 32A, 1-6, I \geq 40A, 10-16$				
Ambient temperature (°C)	40				
Altitude	≤ 2000				
Relative humidity	$\leq 95\%$				
Pollution Level	3				
Installation Environment	No obvious shock and vibration				
Installation category	Class III				
Installation	DIN Standard rail				
Dimensions(W)x(H)x(Deep)	W	18	36	54	72
	H	80	80	80	80
	Deep	71	71	71	71
Weight (kg)		0.12	0.24	0.36	0.48

• Connection

Pole	1P	2P	3P	4P
Connection				

• Over current tripping characteristic

Test	Test Current	Initial State	Limited Time	Expected Result	Remarks
a	1.05I _n	Cold state	t 1h	Non-tripping	
b	1.3I _n	Right after test number a	t < 1h	Tripping	The current is rising within 5s
c	7I _n	Cold state	t ≤ s	Non-tripping	
d	10I _n	Cold state	t 0.1s	Tripping	

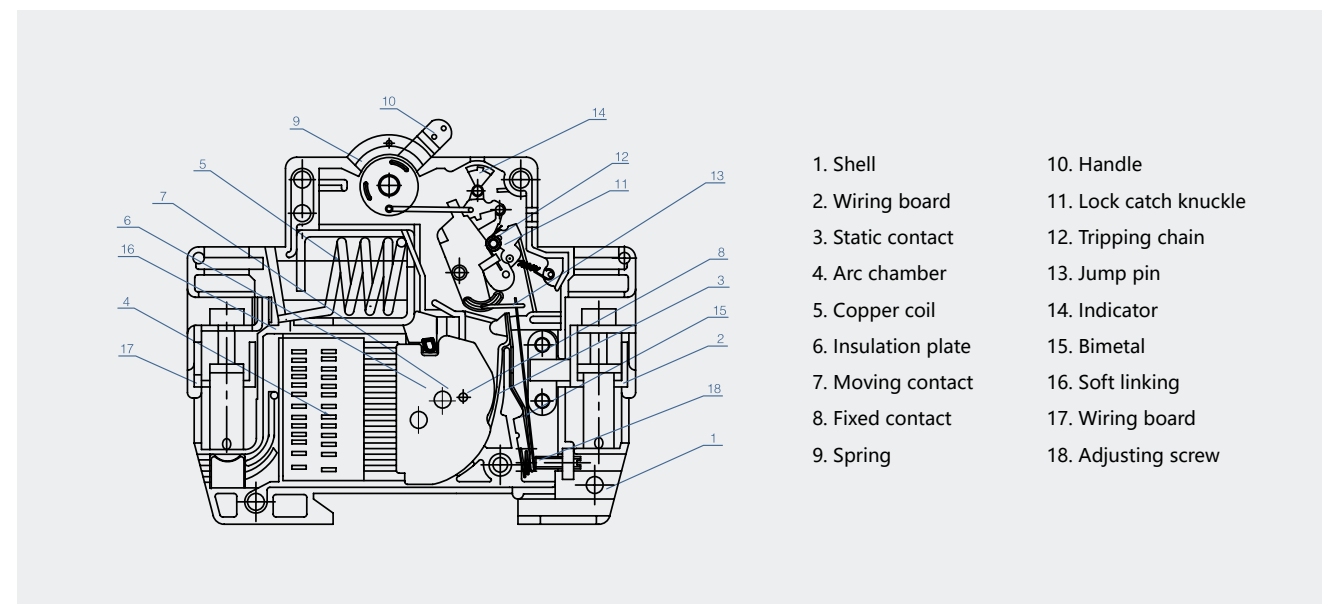
• Current correction values used at different ambient temperatures

Fixed current(A) Rated Current (A)	Temperature											
	-35	-30	-20	-10	0	10	20	30	40	50	60	70
3A	3.9	3.78	3.69	3.57	3.42	3.3	3.12	3	2.88	2.79	2.64	2.49
6A	7.8	7.56	7.38	7.14	6.84	6.6	6.24	6	5.76	5.64	5.28	4.98
10A	13.2	12.7	12.5	12	11.5	11.1	10.6	10	9.6	9.3	8.9	8.4
16A	21.12	20.48	20	19.2	18.4	17.76	16.96	16	15.36	14.88	14.24	13.44
20A	26.4	26.4	25	24	23	22.2	21.2	20	19.2	18.6	17.8	16.8
25A	33	32	31.25	30	28.75	27.75	26.5	25	24	23.25	22.25	21
32A	42.56	41.28	40	38.72	37.12	35.52	33.93	32	30.72	29.76	28.16	26.88
40A	53.2	51.2	50	48	46.4	44.8	42.4	40	38.4	37.2	35.6	33.6
50A	67	65.5	63	60.5	58	56	53	50	48	46.5	44	41.5
63A	83.79	81.9	80.01	76.86	73.71	70.56	66.78	63	60.48	58.9	55.44	52.29

• Current correction factor used at different altitudes

Rated Current (A)	Different altitude correction factors		
	≤ 2000m	2000~3000m	≥ 3000m
3,6,10,16,20,25,32,40,50,63A	1.0	0.9	0.8

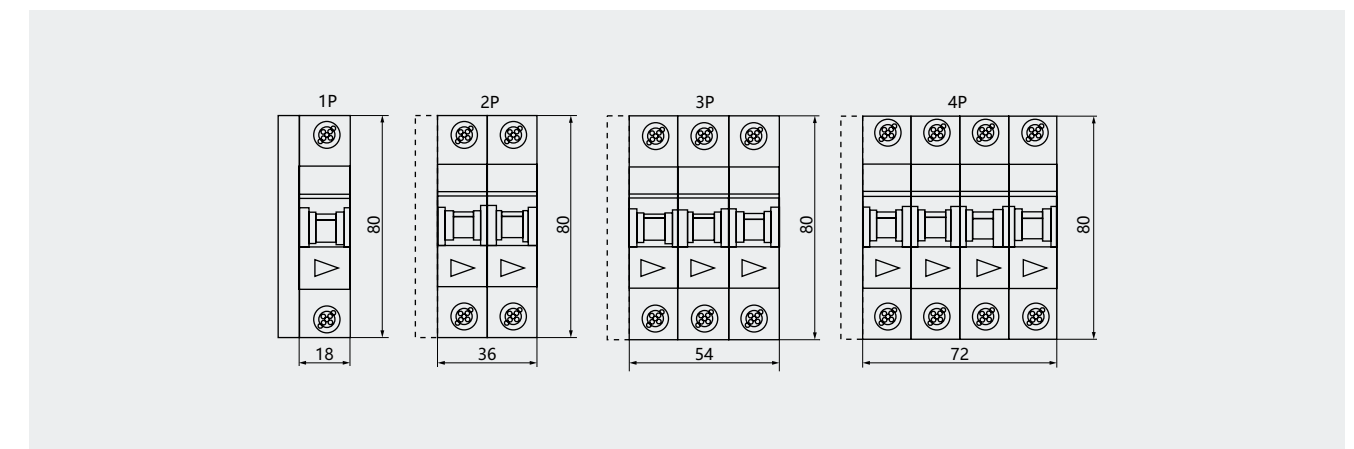
• Details



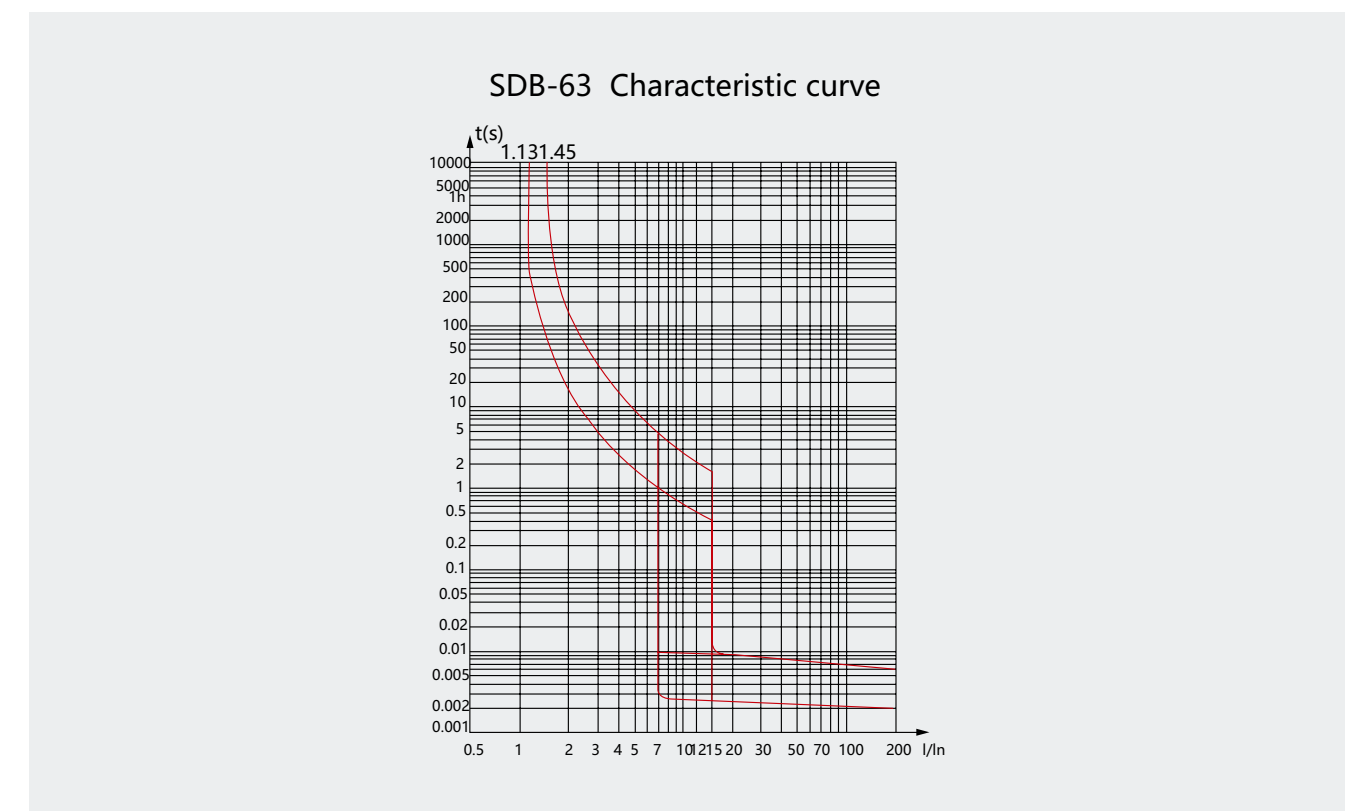
• Wire connection terminals

Rated current I _n (A)	Copper wire nominal cross sectional area(mm ²)
3,6	1
10	1.5
16,20	2.5
25	4
32	6
40,50	10
63	16

• Dimension



• Dimension





• Application

SCDB-63 DC MCB supplementary protectors are designed to provide overcurrent protection within appliances or electrical equipment, where a branch circuit protection is already provided or not required. Devices are designed for direct current (DC) control circuit applications.

• Specifications

SCDB-63 Series Circuit Breaker		SCDB-63			
Frame Degree Rated Current (A) 63					
Pole		1P	2P	3P	4P
Rated Operating Voltage (V DC)		250	550/800	750	1000/1200/1500
Rated Insulation Voltage U_i (V DC)		1200V			
Rated Current I_n (A)		3,6,10,16,20,25,32,40,50,63A			
Rated Impact Voltage U_{imp} (kV)		4			
Ultimate Breaking Capacity I_{cu} (kA)		6			
Run Breaking Capacity I_{cs} (% I_{cu})		100%			
Curve Type		C			
Trip Type		Thermal-magnetic			
Mechanical	Actual average value	7800			
	Standard value	7800			
Electric	Actual average value	200			
	Standard value	300(accord to TUV standard)			

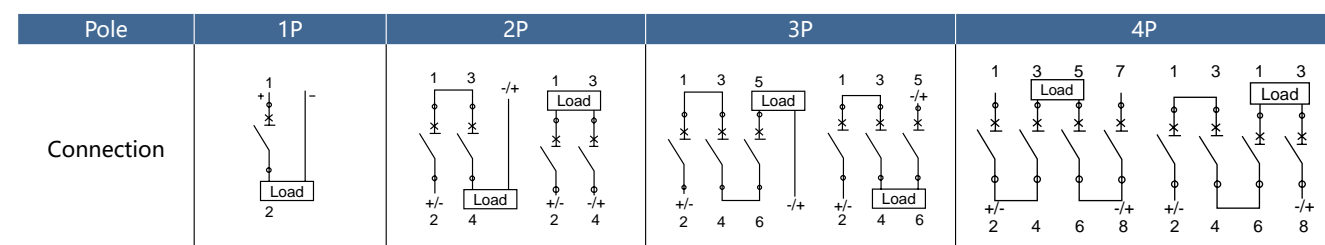
• Control and Indication

Shunt release (SHT)	Option
Undervoltage release (UNT)	
Auxiliary contact (AX)	
Alarm contact (AL)	

• Condition and Installation

Wiring capacity (mm ²)	$I_n \leq 32A, 1-6, I \geq 40A, 10-16$				
Ambient temperature (°C)	40				
Altitude	≤ 2000				
Relative humidity	$\leq 95\%$				
Pollution Level	3				
Installation Environment	No obvious shock and vibration				
Installation category	Class III				
Installation	DIN Standard rail				
Dimensions(W)x(H)x(Deep)	W	18	36	54	72
	H	80	80	80	80
	Deep	71	71	71	71
Weight (kg)	0.12	0.24	0.36	0.48	

• Connection



• Over current tripping characteristic

Test	Test Current	Initial State	Limited Time	Expected Result	Remarks
a	1.05 I_n	Cold state	t 1h	Non-tripping	
b	1.3 I_n	Right after test number a	t < 1h	Tripping	The current is rising within 5s
c	7 I_n	Cold state	t ≤ s	Non-tripping	
d	10 I_n	Cold state	t 0.1s	Tripping	

• Current correction values used at different ambient temperatures

Fixed current(A) Rated Current (A)	Temperature											
	-35	-30	-20	-10	0	10	20	30	40	50	60	70
3A	3.9	3.78	3.69	3.57	3.42	3.3	3.12	3	2.88	2.79	2.64	2.49
6A	7.8	7.56	7.38	7.14	6.84	6.6	6.24	6	5.76	5.64	5.28	4.98
10A	13.2	12.7	12.5	12	11.5	11.1	10.6	10	9.6	9.3	8.9	8.4
16A	21.12	20.48	20	19.2	18.4	17.76	16.96	16	15.36	14.88	14.24	13.44
20A	26.4	26.4	25	24	23	22.2	21.2	20	19.2	18.6	17.8	16.8
25A	33	32	31.25	30	28.75	27.75	26.5	25	24	23.25	22.25	21
32A	42.56	41.28	40	38.72	37.12	35.52	33.93	32	30.72	29.76	28.16	26.88
40A	53.2	51.2	50	48	46.4	44.8	42.4	40	38.4	37.2	35.6	33.6
50A	67	65.5	63	60.5	58	56	53	50	48	46.5	44	41.5
63A	83.79	81.9	80.01	76.86	73.71	70.56	66.78	63	60.48	58.9	55.44	52.29

• Current correction factor used at different altitudes

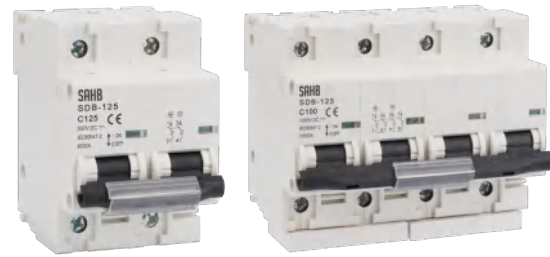
Rated Current (A)	Different altitude correction factors		
	≤ 2000m	2000~3000m	≥ 3000m
3,6,10,16,20,25,32,40,50,63A	1.0	0.9	0.8

• Wire connection terminals

Rated current I_n (A)	Copper wire nominal cross sectional area(mm ²)
3,6	1
10	1.5
16,20	2.5
25	4
32	6
40,50	10
63	16

SAHB | SDB-125

Solar DC Mini Circuit Breaker (DC MCB)



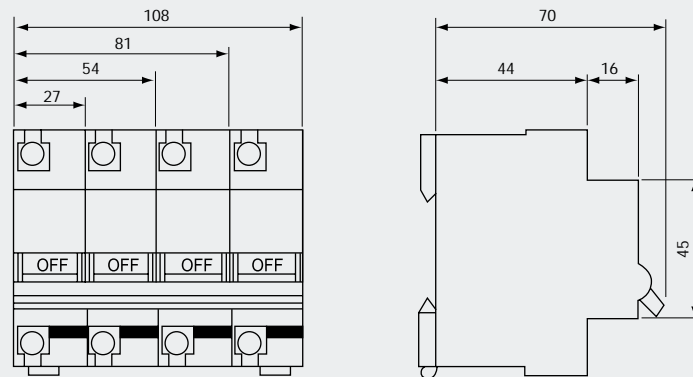
• Application

SDB-125 high breaking capacity circuit breaker is specially for solar PV system. The current is from 63A to 125A and voltage up to 1000VDC. Standard according to IEC/EN60947-2.

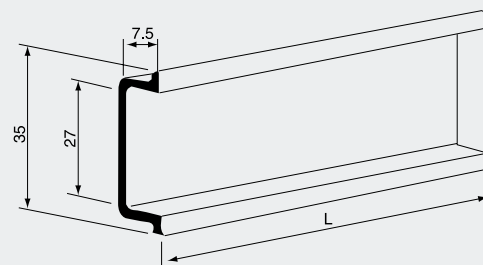
• Specifications

Rated Current	63,80,100,125A			
Rated Voltage	250VDC	550V/800VDC	750VDC	1000/1200/1500VDC
No. of Pole	1P	2P	3P	4P
Mechanical Life	7800 times(C.O.)			
Electrical Life	200 times			
Icu:	10KA			
Ics:	10KA			
Weight(G)	150	300	460	620

• Dimensions



• Installation



SAHB | SDB-125

Solar DC Mini Circuit Breaker (DC MCB)

• Over current tripping characteristic

Item	Rated Current (A)	Initial State	Test Current	Limited Time	Prospective Result	Starting State
a	$I_n=63$	Cold state	$1.05I_n$	$t \leq 1h$	Non-tripping	
	$I_n > 63$	Cold state	$1.05I_n$	$t \leq 2h$	Non-tripping	
b	$I_n=63$	Hot state	$1.3I_n$	$t < 1h$	Tripping	The current rise steadily to a fixed value within 5s
	$I_n > 63$	Hot state	$1.3I_n$	$t < 2h$	Tripping	
c	$I_n \geq 63$	Cold state	$8I_n$	$t \leq 0.2s$	Non-tripping	
			$12I_n$	$t < 0.2s$	Tripping	

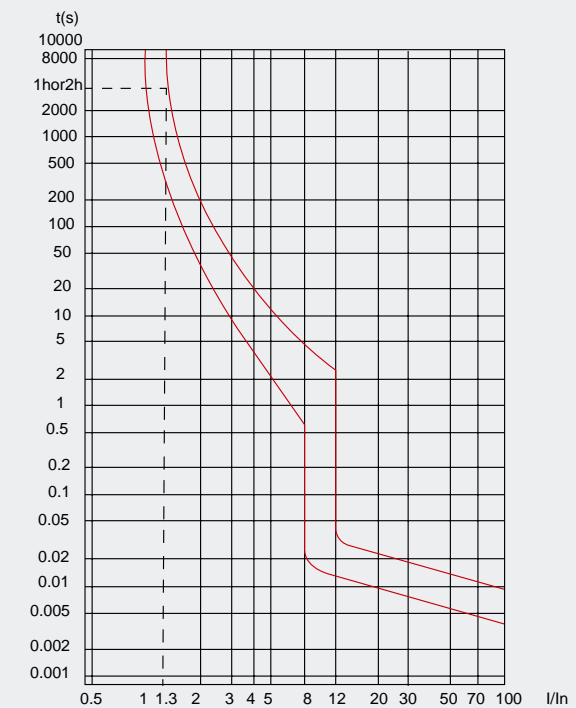
• Current correction values used at different ambient temperatures

Fixed current(A) Rated Current (A)	Temperature											
	-35	-30	-20	-10	0	10	20	30	40	50	60	70
63A	90.40	88.52	84.75	80.33	76.55	72.45	67.73	63	57.65	51.98	46.31	40.95
80A	114.8	112	106.8	101.6	96.4	90.8	85.6	80	74	67.6	60.4	53.2
100A	143.5	140.5	134.5	127.5	121	113.5	107.5	100	92.5	84.5	75.5	66.5
125A	178.75	173.75	164.38	156.25	148.75	140.63	135	125	116.25	107.5	97.5	85

• Current correction factor used at different altitudes

Rated Current (A)	Different altitude correction factors		
	$\leq 2000m$	2000~3000m	$\geq 3000m$
3,6,10,16,20,25,32,40,50,63A	1.0	0.9	0.8

• Dimension





• **Application**

SDBM 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.

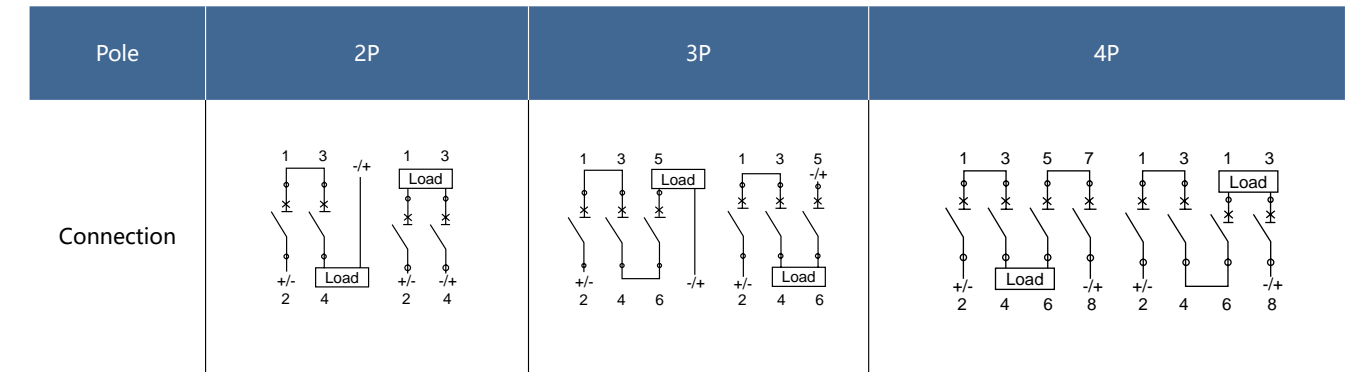
• **Specifications**

Model	SDBM-125	SDBM-250	SDBM-400	SDBM-630	SDBM-800	SDBM-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	1P:250V 2P:550V 3P:750V 4P:1000V 4P:1500V	2P:550V 3P:750V 4P:1000V 4P:1500V	3P:750V 4P:1500V	3P:750V 4P:1500V	3P:750V 4P:1500V	3P:750V 4P:1500V	
Rated Insulation Voltage Ui (V)	1500V						
Uimp (kV)	8kV						
Mechanical Life	Times	7000	7000	4000	4000	2500	2000
Electrical Life	Times	2000	2000	1000	1000	800	600
Breaking Times (ms)		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					

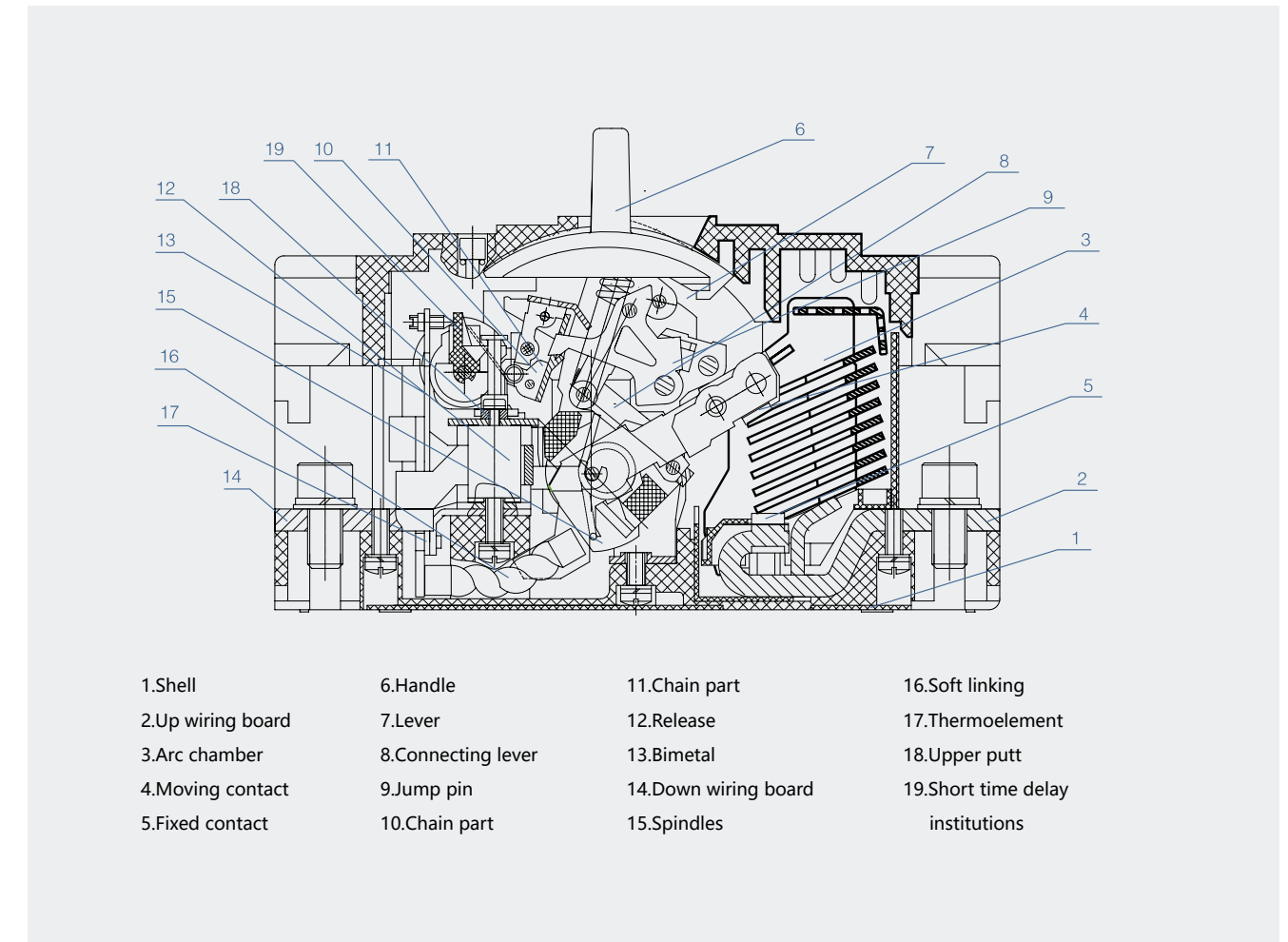
• **Application conditions**

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

• **Connection**



• **Details**



SDSP-PV

Type2 Solar DC Surge Protective Device (DC SPD)



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SAHB | SDSP-PV Type2 Solar DC Surge Protective Device (DC SPD)

• Application

Surge protective device, protect against lightning surge voltages in solar system (photovoltaic power supply system). These units must be installed in parallel on the dc networks to be protected and provide common and different modes protection. Its installed location are recommended at both ends of the dc power supply line (solar panel side and inverter/converter side), especially if the line routing is external and long. High energy MOVs equipped with specific thermal disconnectors and related failure indicators.



• Specifications

FSP-D40 Surge protector	SDSP-PV			
PVDC - specific	EN61643-31			
Pole	2P	2P	3P	3P
Electrical parameter				
Classified test	II	II	II	II
Uoc max (VDC)	600	800	1000	1500
Uc(VDC)	600	800	1000	1500
In (8 /20)us (kA)	20	20	20	20
Imax (8 /20)us (kA)	40	40	40	40
Up (kV)	2.0	2.5	3.8	5.3

• Remote Signal Contact

Remote signal contact	Maximum working voltage (V)	250VAC/30VDC	250VAC /30VDC
	Maximum working current (A)	IA (250 V /AC)	IA (250V/AC)
	I A (30 V DC)	IA (30V/AC)	IA (30V /AC)

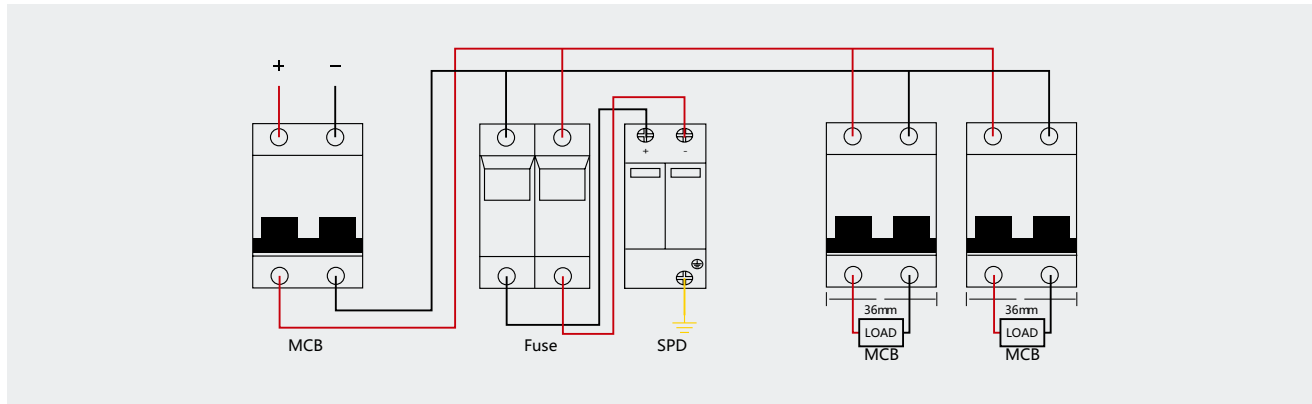
• Installation and Dimensions

Wiring capacity(mm2)	Hard wire	4~25	4~25
		Flexible wire	4~16
Stripping length(mm)		10	10
Terminals crwva		M5	M5
Torque (Nm)	Main circuit	3.5	3.5
	Remote signal contact	0.25	0.25
Protection class	All profile	IP40	IP40
	Connection port	IP20	IP20
Installation environment		No obvious shock and vibration	
Altitude (m)		≤ 2000	≤ 2000
Working Temperature		-30°C ~+70°C	-30°C ~+70°C
Relative humidity		30%~90%	30%~90%
How to install		Installed with H 35-7.5/DIN35 steel mounting rail	
Size (mm) (W x H x L)	W	36	54
	H	90	90
	L	67.6	67.6
Weight (kg)		0.24	0.36

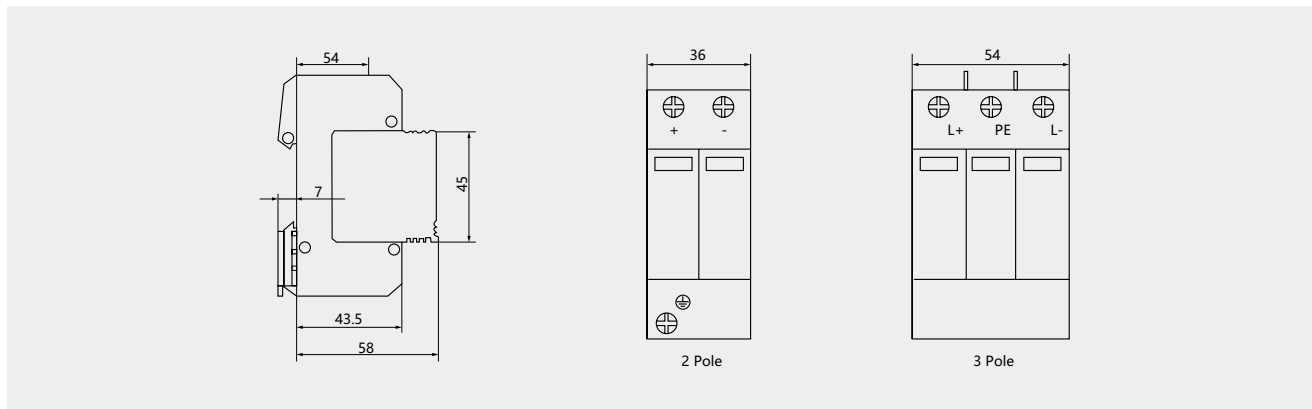
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DC SPD

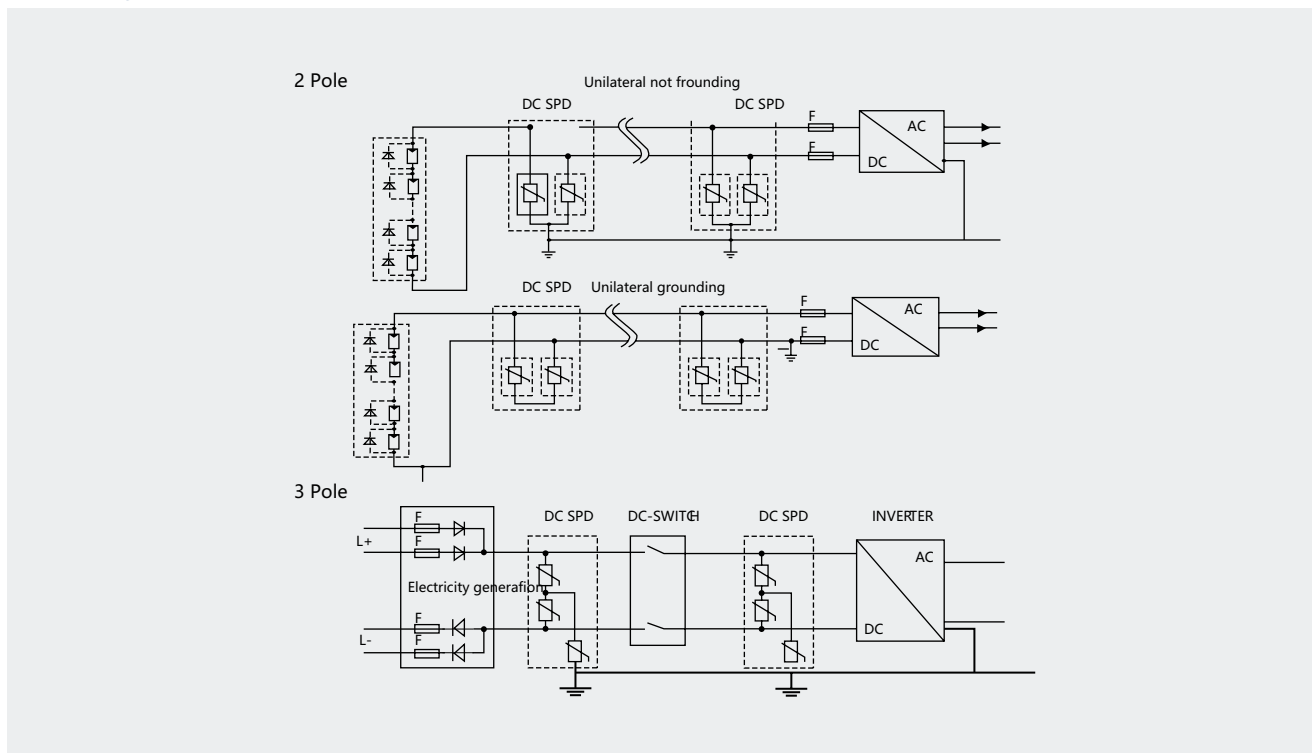
• Characteristic Curve



• Wiring Diagram



• Drawing



• Application

SDSP-PV is a Type 1+2 surge protector specially designed for photovoltaic power generation, it is installed at the outlet of photovoltaic panels with high risk of direct lightning strike, it is suitable for photovoltaic system protection with DC voltages of 1000V and 1500V.



• Features

- Type 1+2 surge protective device for Photovoltaic
- VG-Technology
- Up to 1500 Vdc
- No leakage, no operating currents
- Impulse currents $I_{imp}/I_{total} : 5/20\mu s \text{ \& } 10/350 \mu s$
- Common and Differential Mode protection
- Plug-in modules
- Remote Signaling (option)
- EN 61643-31 compliance

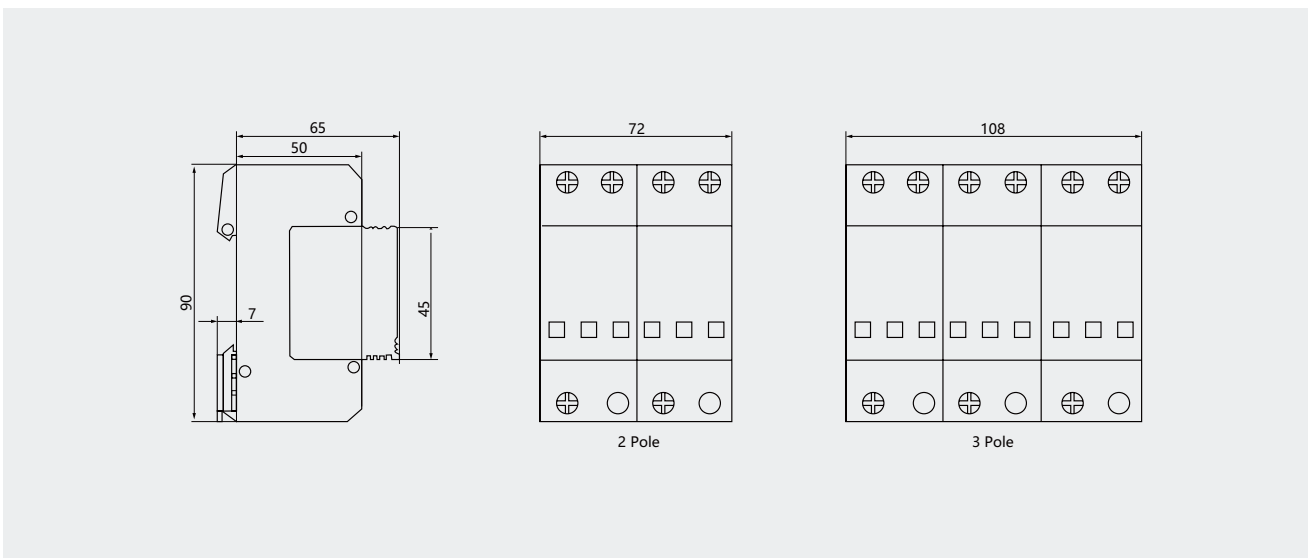
• Specifications

Model		SDSP-PV		
Description		Type 1+2 PV DC surge protector		
Pole		2P	3P	3P
Protection mode		CM/DM		
Max. operating voltage	U_{cpv}	600 Vdc	1000 Vdc	1500 Vdc
Current withstand short-circuit	I_{scpv}	1000 A		
Operating current - to the voltage U_{cpv}	I_{cpv}	none		
Leakage current - to the voltage U_{cpv}	I_{pe}	none		
Follow current	I_f	none		
Nominal discharge current - 8/20 us	I_n	20 KA		
Max discharge current by pole - 8/20 us	I_{max}	40 KA		
Max. Lightning current by pole - 10/350 us	I_{imp}	7KA		
Total lightning current - 10/350 us	I_{total}	10 KA		
Total Maximal discharge current - 8/20 us	I_{total}	60 KA		
Protection level CM/DM (at I_n)	Up	2.8 KV	3.5 KV	5.1 KV

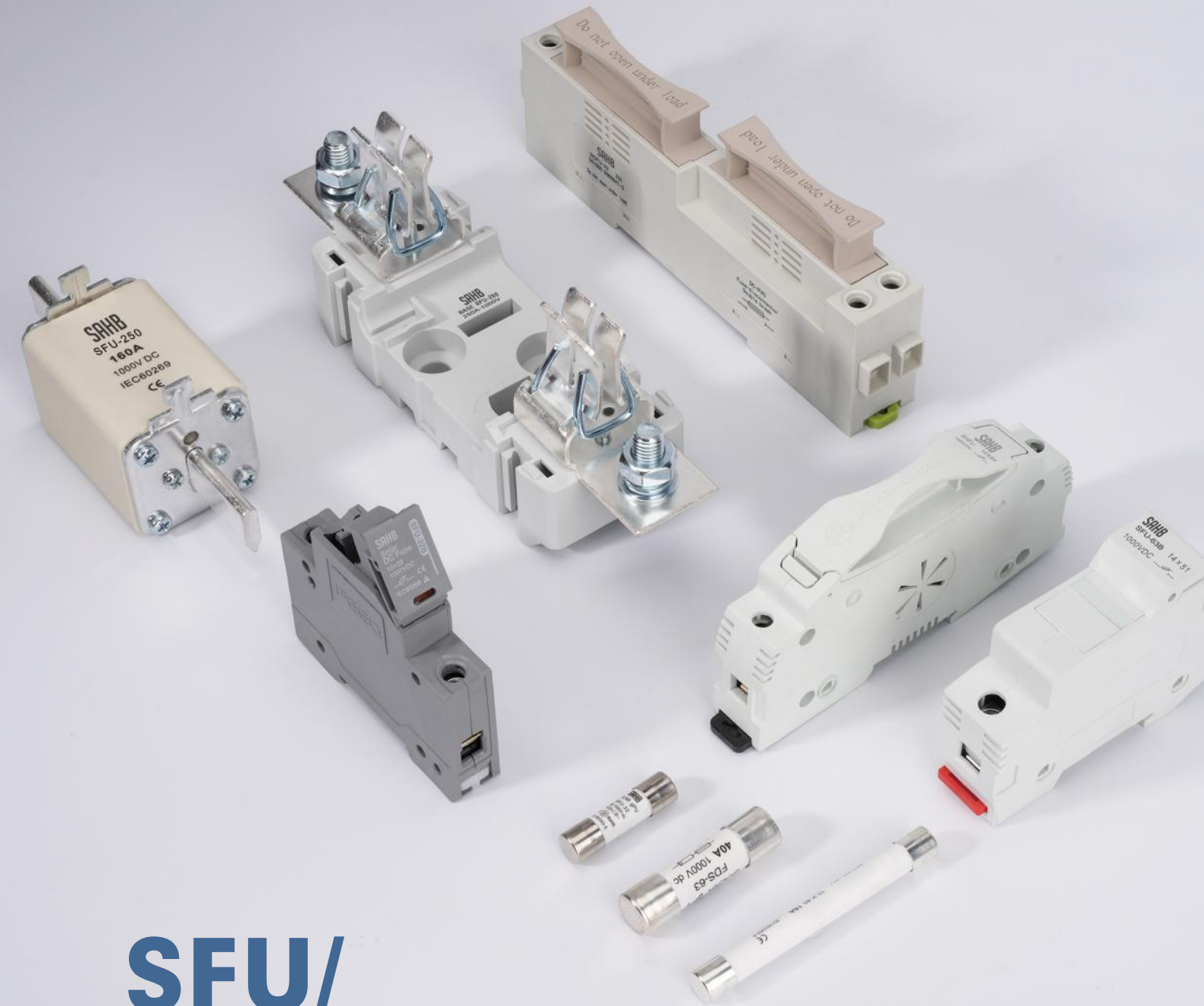
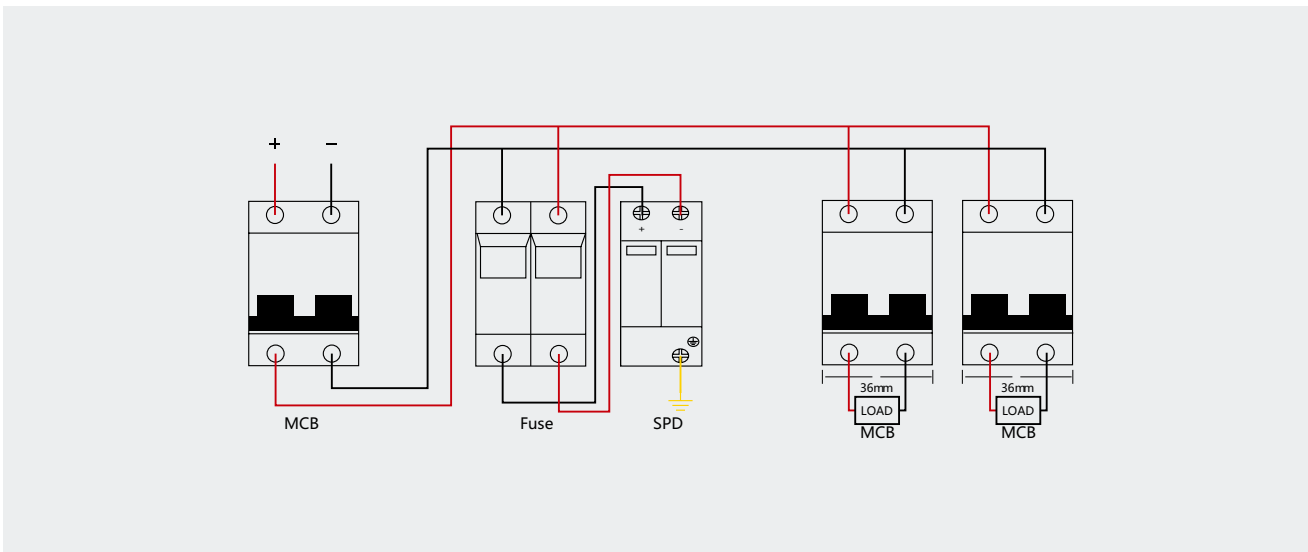
Mechanical characteristics

Dimensions	See diagram
Connection	Screw terminal for 2.5-25 mm ² wire
Disconnection indicator	1 mechanical indicator by pole
Remote signaling	Option FSP-D40 - Output on changeover contact
Mounting	Symmetrical rail 35 mm (EN60715)
Operating temperature	-40°C ~ +85°C
Protection class	IP20
Housing material	Thermoplastic UL94-V0
Standards compliance	EN61643-31

• Dimensions



• Wiring Diagram



**SFU/
SHFU/SHB**

Solar DC Fuse
Fuse Type Isolator Switch



• **Application**

A range of 10x38mm fuse links specifically designed for protecting photovoltaic strings. These fuse links are capable of interrupting low overcurrents associated with faulted photovoltaic string arrays (reverse current, multi-array fault).

• **Structural Characteristics**

- According to IEC60269-1
- Rated current: 1-32A
- Rated voltage: DC 1000V
- Rated breaking capacity: DC 20KA
- Operating class gPV for Solar protection

• **Specifications**

Pole	1P
Rated Voltage Ue (V DC)	1000
Rated Current In (A)	1,2,3,4,5,6,8,10,12,15,20,25,30,32
Biggest Block Ability(KA)	20
The Most High Power Consumption(W)	3.5

• **Connection and Installation**

Connection(mm ²)	2.5 - 10
Working Temperature(°C)	-30~+70
Resistance And Damp Hot	Class 2
Altitude(m)	≤ 2000
Relative Humidity	≤ 95%
Protection Class/Degree	IP20
Pollution	3
Installation Environment	No obvious shock and vibration
Installation Class/Type	Class III/DIN rail

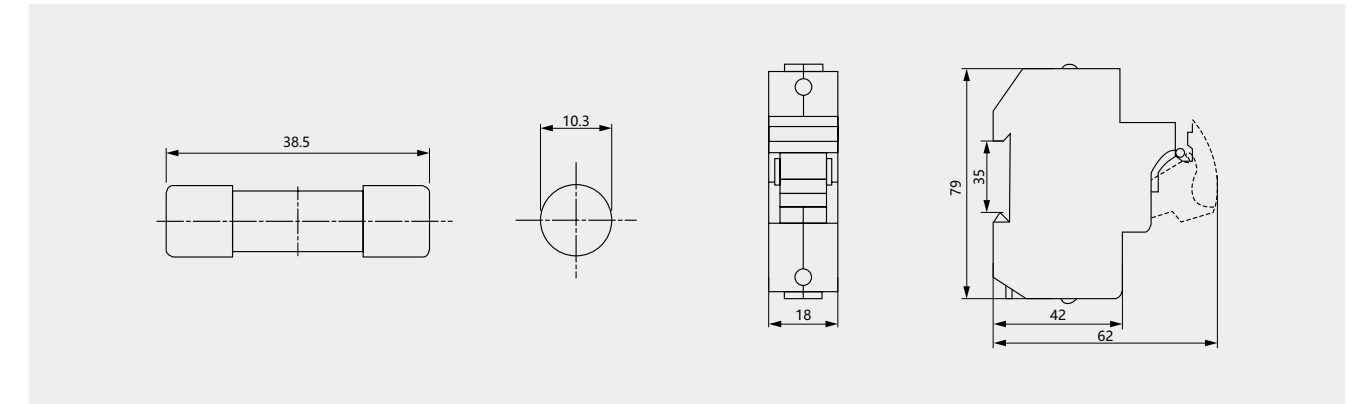
• **Connection and Installation**

Size/Dimension(mm)		
(WxHxL)	W	18
	H	60
	L	78
Fuse Size		10x38
Fuse Link Weight(kg)		0.011
Fuse holder weight(kg)		0.07

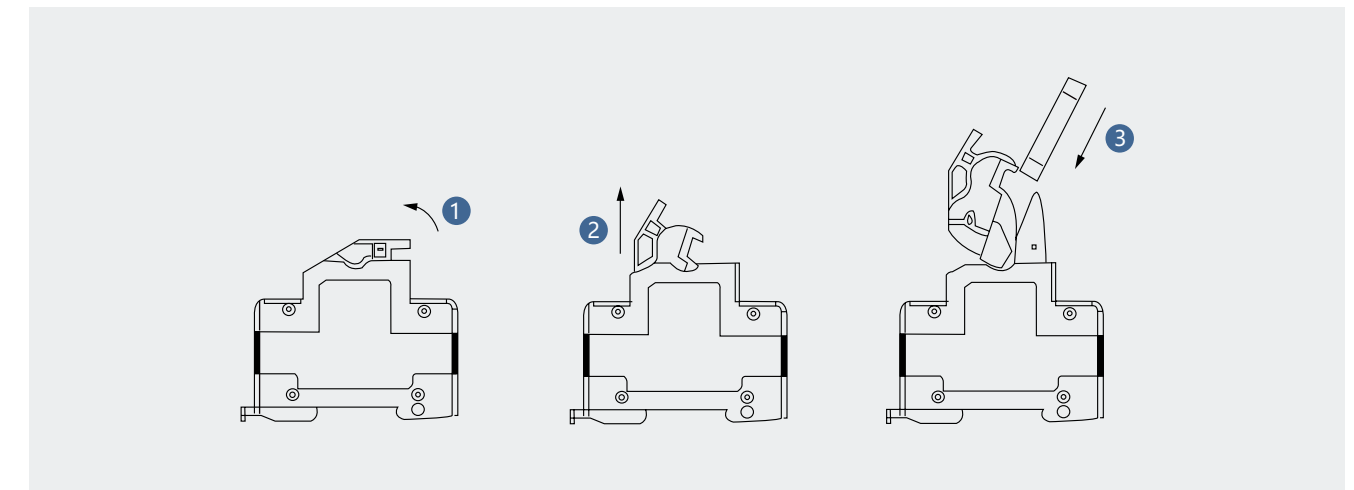
• **Application conditions**

- Photovoltaic system fuse accord with UL248-1 standard.
- Photovoltaic battery dc fuse designed to used for photovoltaic (PV) system.
- Main effect is to protect the solar panels. Solar panels points in effective condition is broken.
- Fault light cells break points at the same time, does not affect other normal work of light from the stack.
- Technical Data Rated coltage: DC1000V Breaking capacity: 25KA Function level: PV.

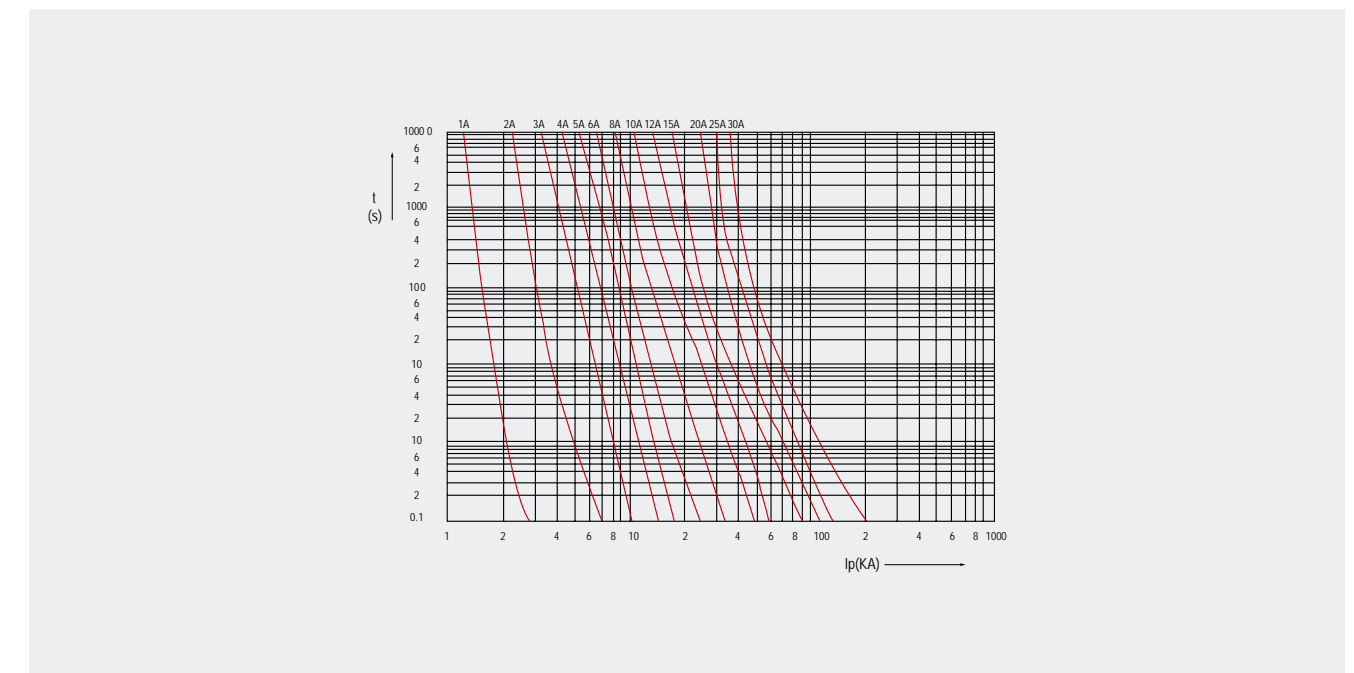
• **Dimensions**



• **Installation**



• **Characteristic Curve**





• **Application**

A range of 14x51mm fuse links specifically designed for protecting photovoltaic strings. These fuse links are capable of interrupting low overcurrents associated with faulted photovoltaic string arrays (reverse current, multi-array fault).

• **Structural Characteristics**

- According to IEC60269-6
- Rated current: 1-63A
- Rated voltage: DC 1000V
- Operating class gPV for Solar protection

• **Specifications**

Pole	1P
Rated Voltage Ue (V DC)	1000
Rated Current In (A)	40, 50, 63

• **Connection and Installation**

Connection(mm2)	2.5 -1 0
Working Temperature(°C)	-30~+70
Resistance And Damp Hot	Class 2
Altitude(m)	≤ 2000
Relative Humidity	≤ 95%
Protection Class/Degree	IP20
Pollution	3
Installation Environment	No obvious shock and vibration
Installation Class/Type	Class III/DIN rail

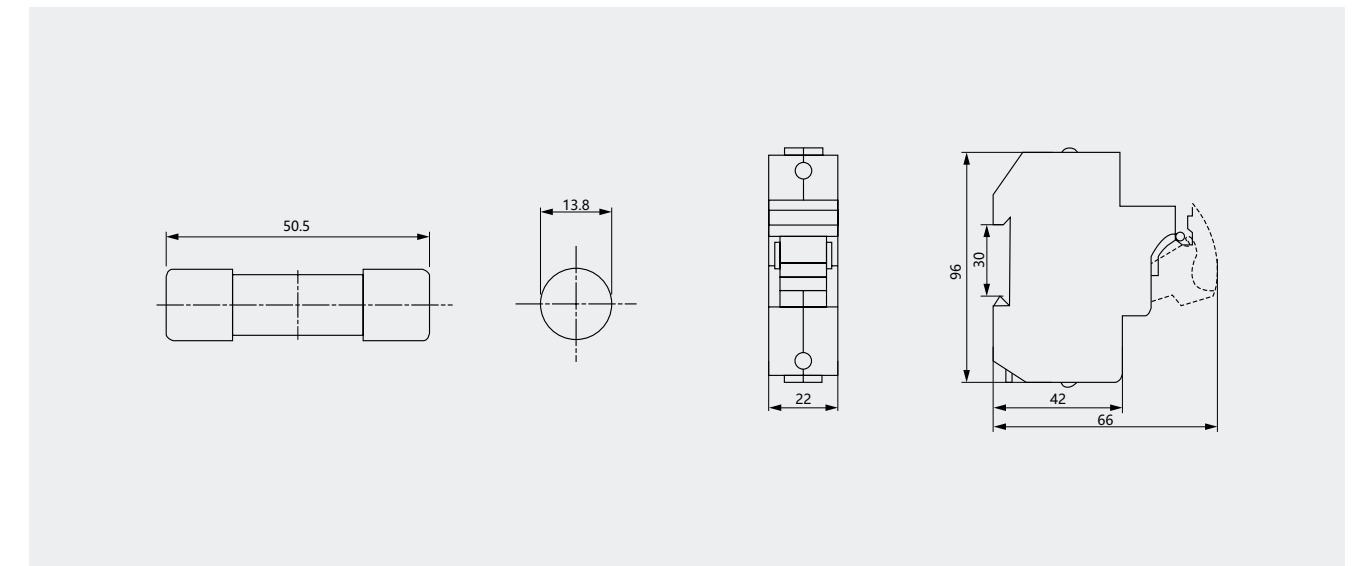
• **Connection and Installation**

Size/Dimension(mm)		
(WxHxL)	W	22
	H	66
	L	96
Fuse Size		14x51
Fuse Link Weight(kg)		0.11
Fuse holder weight(kg)		0.025

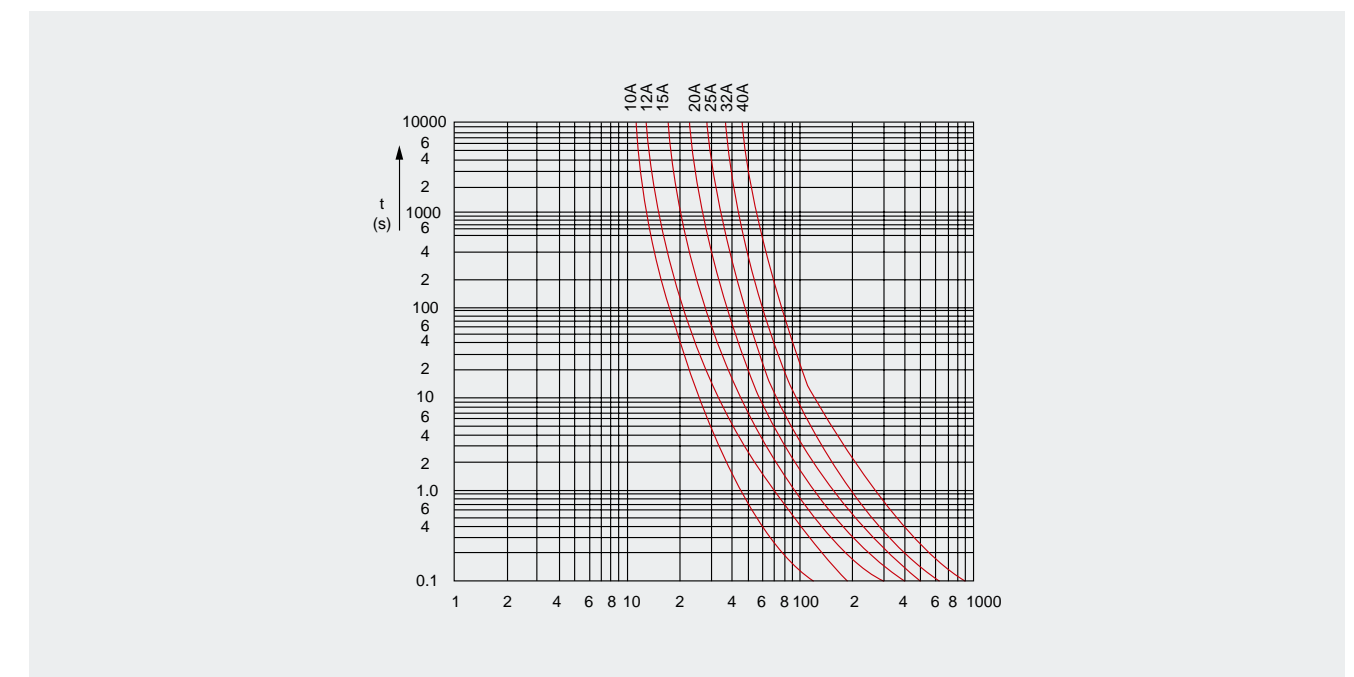
• **Application conditions**

- Photovoltaic system fuse accord with UL248-1 standard.
- Photovoltaic battery dc fuse designed to used for photovoltaic (PV) system.
- Main effect is to protect the solar panels. Solar panels points in effective condition is broken.
- Fault light cells break points at the same time, does not affect other normal work of light from the stack.
- Technical Data Rated coltage: DC1000V Breaking capacity: 25KA Function level: PV.

• **Dimensions**



• **Characteristic Curve**





• **Application**

Fuse features light in weight, small in size, low in power loss and high in breaking capacity. This product has been widely used in overload and short circuit protection of electric installation. This product conforms to ICE 60269 standard with all of the rating at the world advanced level.

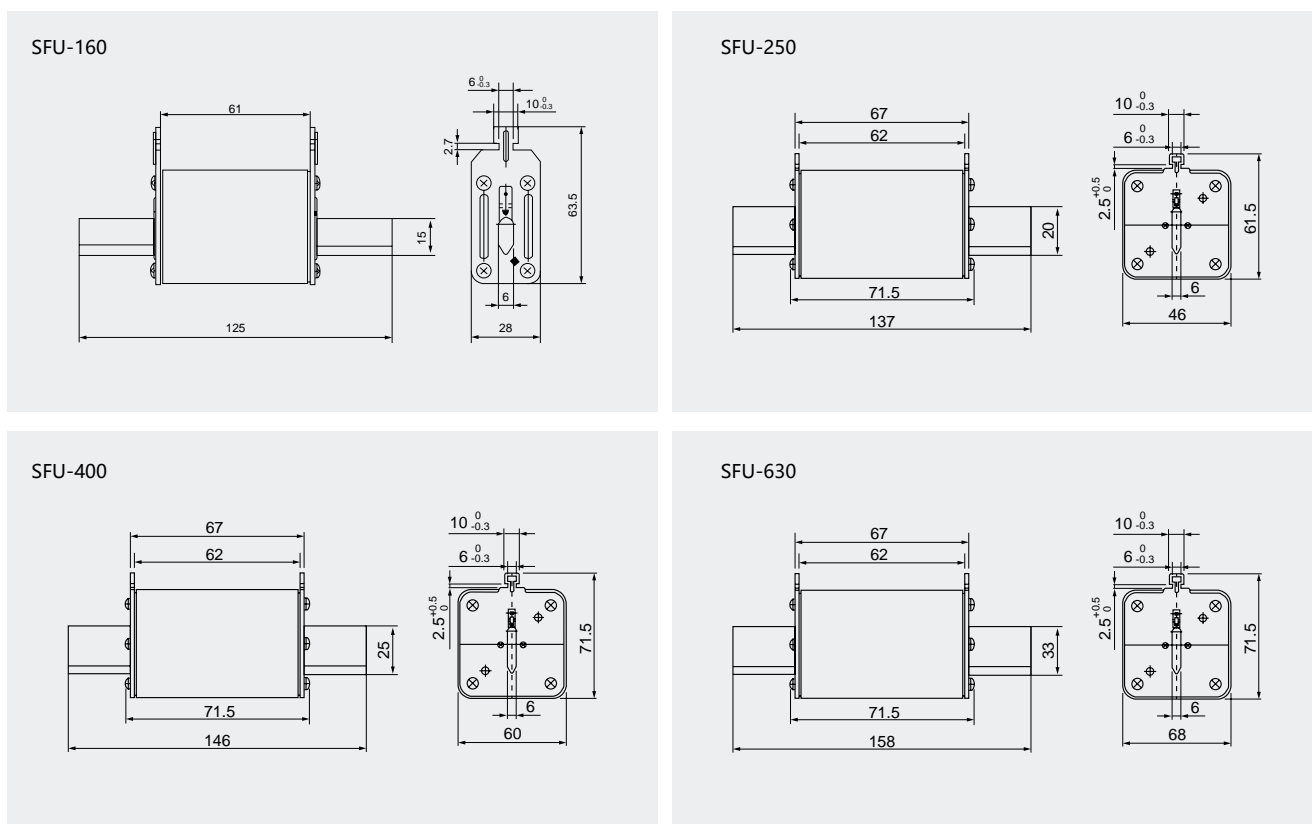
• **Structural Characteristics**

- According to IEC60269-6
- Rated current: 160-630A
- Rated voltage: DC 1000V
- Rated breaking capacity:DC 50kA
- Operating class gPV for Solar protection
- See Model of product:NH00

• **Specifications**

Rated Voltage Ue (V DC)	1000	
Rated Current In (A)	SFU-160	40,50,63,80,100,125,160
	SFU-250	32, 40, 50, 63, 80, 100, 125, 160, 200, 250
	SFU-400	125, 160, 200, 250, 300, 315, 355, 400
	SFU-630	315, 355, 400, 425, 500, 630
Biggest Block Ability(KA)	50	

• **Dimensions**



• **Application**

A range of 10x85mm PV fuses specifically designed for protecting and isolating photovoltaic strings. These fuse links are capable of interrupting low overcurrents associated with faulted PV systems (reverse current, multi-array fault). Available in four mounting styles for application flexibility.

• **Structural Characteristics**

- According to IEC60269-6
- Rated current: 1-30A
- Rated voltage: DC 1500V
- Rated breaking capacity:DC 20kA
- Operating class gPV for Solar protection

• **Specifications**

Pole	1P
Rated Voltage Ue (V DC)	1500
Rated Current In (A)	1,2,3,4,5,6,8,10,12,15,20,25,30,35
Biggest Block Ability(KA)	20

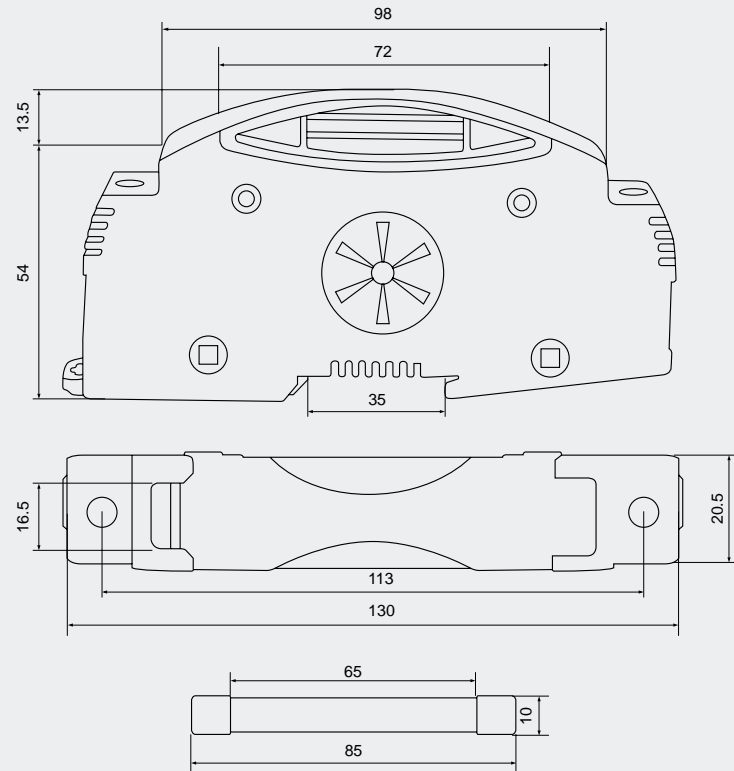
• **Connection and Installation**

Connection(mm2)	2.5 -1 0
Working Temperature(°C)	-30~+70
Resistance And Damp Hot	Class 2
Altitude(m)	≤ 2000
Relative Humidity	≤ 95%
Protection Class/Degree	IP20
Pollution	3
Installation Environment	No obvious shock and vibration
Installation Class/Type	Class III/DIN rail

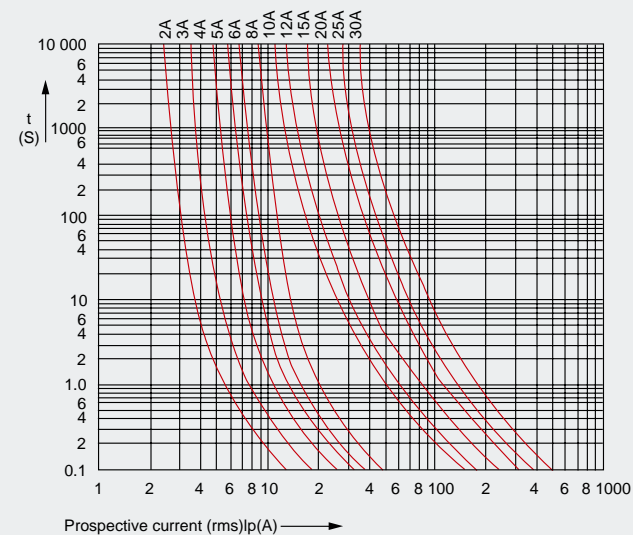
• **PV fuse Features**

- Specifically designed to provide fast-acting protection under low fault current conditions associated with PV systems.
- Variety of mounting options for flexibility.
- Fuses meet IEC photovoltaic standards for global product acceptance.
- Low watts loss for greater PV system efficiency.
- Low heat rise permits more precise sizing.
- In-line crimp terminal version is easy to apply in wire harness construction.

• Dimensions



• Characteristic Curve



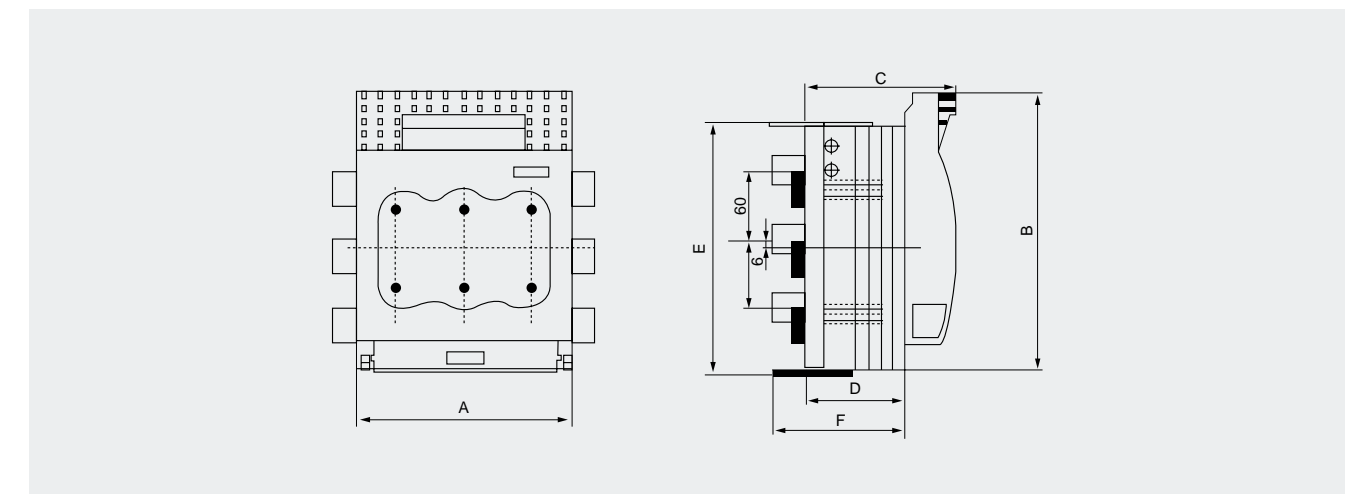
• Application

SHB series fuse type isolator is a product with advanced international level in the middle of the 90s. The rated voltage is 800V, rated voltage to 660V, rated current up to 630A, rated frequency 50Hz, power distribution and electric circuit high short-circuit current, used as power switch, isolation switch and emergency switch and circuit protection purposes, but generally not directly as a single motor for opening and closing.

• Specifications

Convention heating current I _{th}	1P	1P	1P	1P
Rated insulation voltage U _i	800V/1500V			
Rated operating voltage U _e	AC400V, 690V/DC1000V			
Rated frequency	50Hz			
Rated connection capacity (A r.m.s)	10I _e			
Rated breaking capacity (A r.m.s)	8I _e			
Rated limit short-circuit current (r.m.s)	50KA			
Rated operating current	160A	250A	400A	630A
	100A	200A	315A	425A
Mechanical life (times)	5000	3000	2000	1500
Electric life (times)	1000	600	400	300
Weight (3P) kg	1.2	3.6	4.8	6.5
Auxiliary micro switch main parameters	50Hz, AC-15, 230V, 3A			

• Dimensions



Model/Size	A	B	C	D	E	F
SHB-160/3	160	200	97	60	200	87
SHB-250/3	185	247	128	88	221	87
SHB-400/3	210	290	145	97	268	125
SHB-630/3	256	300	160	112	285	139

SDIS

Solar DC Waterproof Isolator Switch



SAHB

SAHB | SDIS Solar DC Waterproof Isolator Switch



• Application

- Compact and suitable where space is limited
- DIN rail mounting for easy installation
- Load-breaking up to 8 times rated current making it ideal for motor isolation
- Double-break with silver rivets-superior performance, reliability and long lasting
- Highly visible red/yellow handle
- Large padlockable red/yellow or grey/black handles
- Comprehensive range, 16 to 32A models
- High IP66 rating
- High breaking capacity with 12.5 mm contact air gap
- Easy to install and operate
- Easy snap-on fitting of auxiliary switches

• Technical Parameters

Technical Parameters	Model	SDIS-32
The following CNC according to IEC60947-3, the use of category DC21B		

Main Parameters				
Rated Insulation Voltage	U_i		V	1500
Rated heating Current	I_{the}		A	32
Rated Impulse Withstand Voltage	U_{imp}		V	8000
Rated Short-time Withstand Current(1s)	I_{cw}	2,4	A	1000
		2H	A	1700
Rated Short-circuit Making Capacity	I_{cm}	2,4	A	1000
		2H	A	1700
Rated Short-circuit Current	I_{cc}		A	5000
Maximum Fuse Specifications	$g_t(g_G)$		A	80
Mechanical Life				10,000
DC poles				2or4
Distance Between Contacts (pole-to-pole)			mm	8
Operating Temperature			°C	-25 to +70
Storage Temperature			°C	-45 to +70
Class of pollution				2
Over voltage category				I to III
IP level				IP66

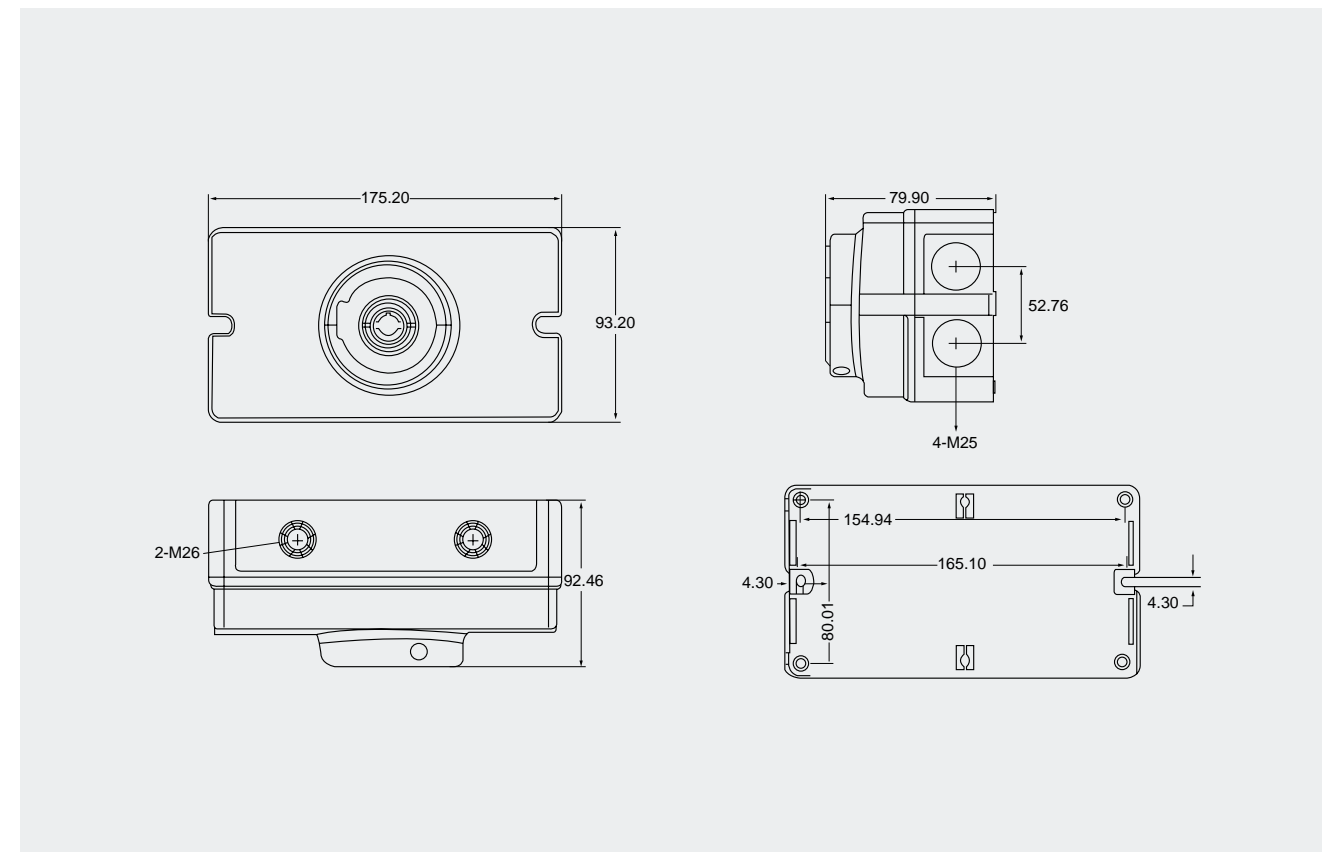
SAHB

Isolator

• Wiring Diagram

SDIS-32	...2	...4	...4S	...4T	...4B
Contacts Wiring Diagram					
Switching exeample					

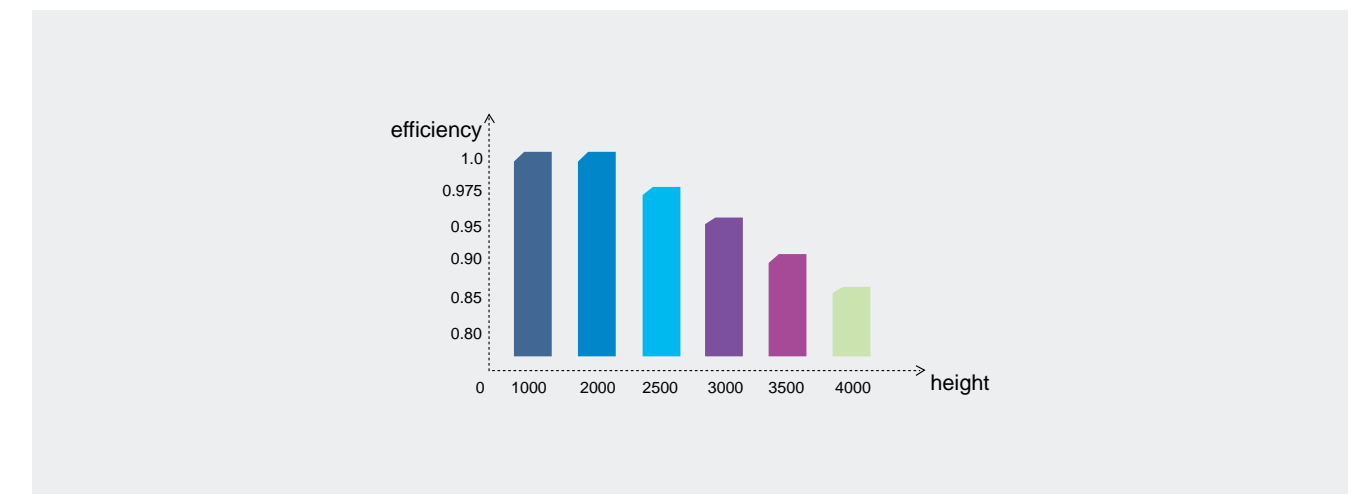
• Dimensions



• Wiring Diagram

DC21B IEC60947-3							Poles in series	Strings	Model	Contact configuration
500V	600V	700V	800V	900V	1000V	1500V				
32	32	27	23	20	13	5	2	1	SDIS-32-2	
32	32	27	23	20	13	5	2	2	SDIS-25-4	
32	32	32	32	32	32	23	4	1	SDIS-32-4T	
32	32	32	32	32	32	23	4	1	SDIS-32-4B	
32	32	32	32	32	32	23	4	1	SDIS-32-4S	

• Curve





• Application

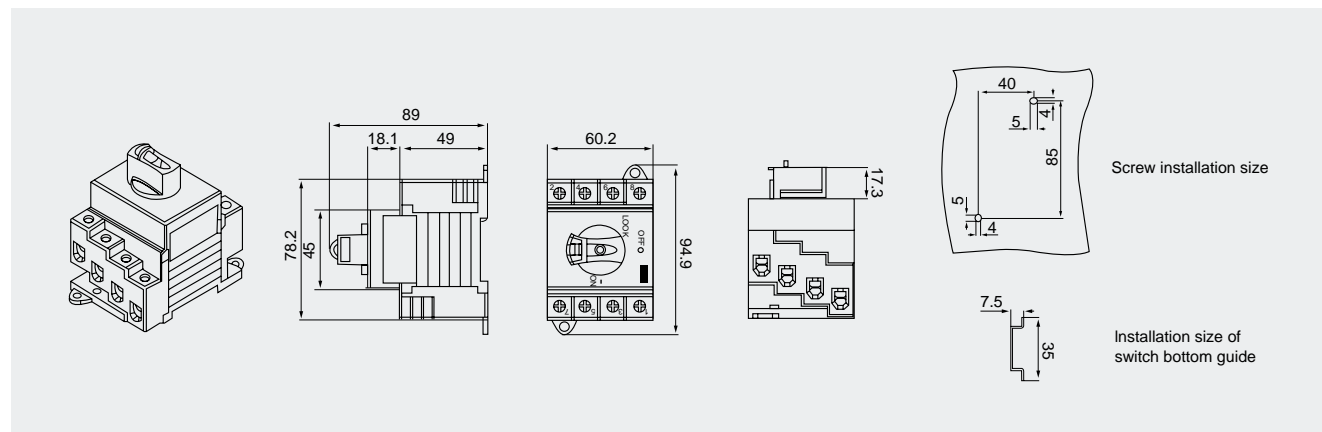
- Max32A and 1500V
- Available in 2 to 4 Pole, application in the distribution box
- TUV certificated
- Working Temperature: Full efficiency between -25°C ~ 70°C
- 5 years guarantee certificate
- Handy Locking Mechanism while off keeps it safe from Children or Un-Authorized access
- Operator Independent trigger Ratchet Switching and Knife Edge Self Cleaning Contact Mechanism

• Technical Parameters

Technical data
Data according to IEC 60947-3,utilization category DC-PV1/ DC-PV2

Main parameters			SDIS-NHV
Rated insulation voltage	Ui		1500V
Rated thermal current	Ithe		32A
Rated impulse withstand voltage	Uimp		8000V
Rated short-time withstand current(1s)	Icw	2,4	1000A
Rated short-circuit making capacity	Icm	2,4	1000A
Rated conditional short-circuit current	Icc		5000A
Max.fuse size	gL(gG)		80A
Mechanical life			10,000
Number of DC poles			2 or 4
Distance of contacts (per pole)			8mm
Distance of contacts (per pole)			-25°C ~+70°C
Storage temperature			-40°C ~+70°C
Pollution degree			2
Overvoltage category			I to III
IP rating of shafte and mounting nut			IP20

• Dimensions



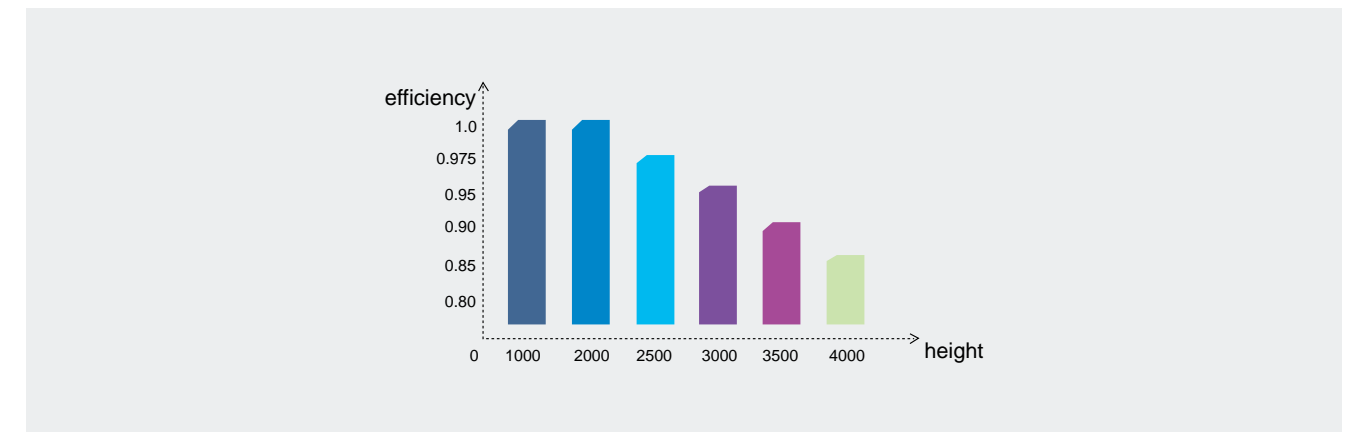
• Technical Data

DC21B IEC60947-3								Poles in series	Strings	Model	Contact configuration
500V	600V	700V	800V	900V	1000V	1200V	1500V				
32	32	32	32	23	16	/	/	2	1	SDIS-NH-2	
32	32	32	32	23	16	/	/	4	2	SDIS-NH-4	
32	32	32	32	32	32	/	/	4	1	SDIS-NH-4B	
32	32	32	32	32	32	/	/	4	1	SDIS-NH-4T	
32	32	32	32	32	32	/	/	4	1	SDIS-NH-4S	

• Wiring Diagram

SDIS-VH	...2	...4	...4S	...4B	...4T
Contacts Wiring Diagram					
Switching exeample					

• Curve



SAHB | SDH-63

Solar DC Mini Isolator Switch



• Product introduction

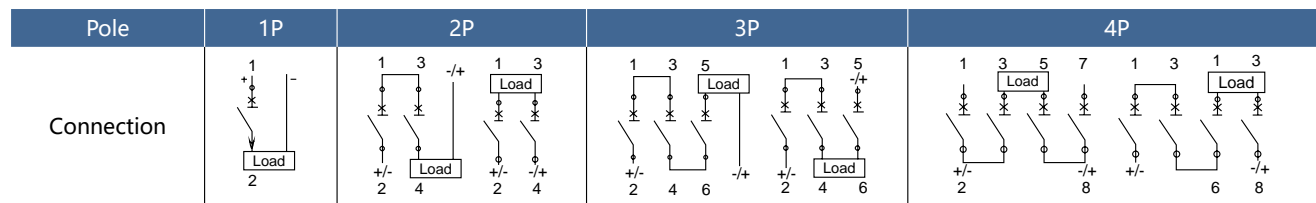
SDH photovoltaic dc isolator is mainly used solar power distribution system, namely pv junction box, etc. direct current electrical equipment. Rated voltage 1200 VDC, rated current 63 A, science of arcing design solar photovoltaic power generation system reliable operation.

NOTE: This product do not have Thermal trip and magnetic trip.

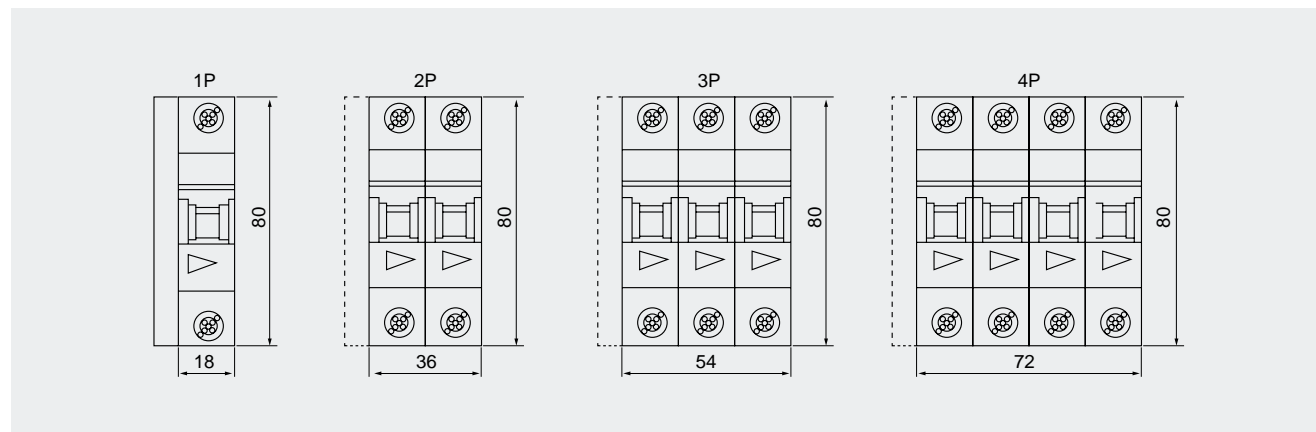
• Technical Parameters

Electrical Characteristics		SDH-63			
Code	SDH-63				
Standard	IEC60947-3/GB14048.3				
Pole	1P	2P	3P	4P	
Rated voltage	Ue	250V DC	550V DC	750V DC	1000V DC
Max current	I _{max}	63A			
Rated current	I _n	63			
Rated insulation voltage	U _{imp}	1200V DC			
Rated impact voltage		4KV			
Life					
Mechanical life		2000			
Electric life		4000			
Isolation function		Yes			
Installation					
Protection degree		IP20			
Connection		2.5-25mm ²			
Temperature		-25°C ~ +70°C			
Muggy		Type 2			
Shake degree		2.6 IEC60068			
Impact degree		2.27 IEC60068			

• Connection



• Dimensions



SAHB | SDHM

Solar DC Moulded Case Isolator Switch



• Product introduction

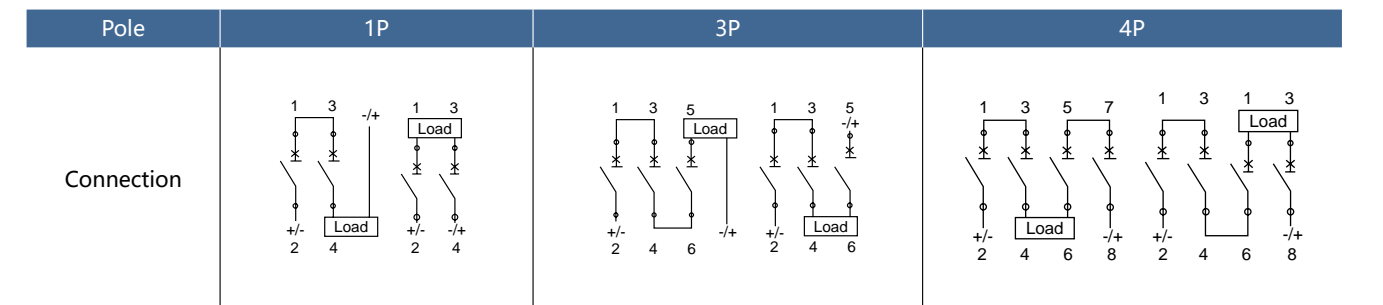
SDHM series molded isolating switch is mainly used in large scale photovoltaic power distribution system, including pv junction box, photovoltaic inverter, live up to what our dc cabinet, etc. Rated voltage 1500 VDC, rated current is 1250 A, can quickly disconnect fault current of dc power supply distribution system, solar photovoltaic power generation system reliable operation.

NOTE: This product do not have Thermal trip and magnetic trip.

• Technical Parameters

FDHM Series Solar DC Isolating Switch													
Code	SDHM-125				SDHM-250				SDHM-400		SDHM-630		
Pole	1P	2P	3P	4P	1P	2P	3P	4P	3P	4P	3P	4P	
Max current	125A				250A				400A		630A		
Electrical properties													
Rated voltage(DC)	Ue	250V	550V 800V	750V	1000V 1500V	250V	550V 800V	750V	1000V 1500V	750V	1000V 1500V	750V	1000V 1500V
Rated current	n(A)	63,80,100,125				125,140,160, 180,200,250				315,350, 400		500,630	
Rated insulation voltage	Ui	1500V DC											
Rated impact voltage	U _{imp}	8KV											
Withstand voltage		3.8KV								3.8KV			
Control and indicating													
Shunt release		Yes											
Auxiliary release		Yes											
Life													
Mechanical life		14000				14000				5000		5000	
Electric life		5000				5000				1500		1500	
Protection degree		IP20											
Installation													
Standard		IEC60947-3/GB14048.3											
Temperature		-45°C ~ +70°C											

• Connection



SAHB

AC Series



SAHB



SAB

Mini Circuit Breaker (AC MCB)

SAHB | SAB-63 Mini Circuit Breaker (AC MCB)



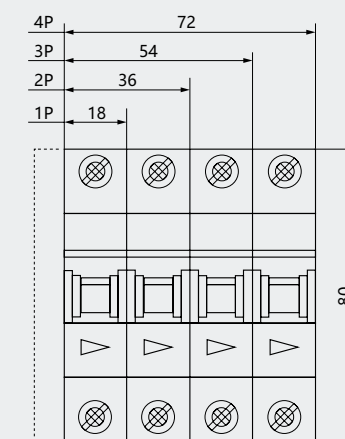
• Product introduction

SAB-63 have protective function as overload, and are used in lighting distribution system in industry commerce and dwelling, and protect fractional electric motors. And they also have many merits of high protective grade(up to IP20), high breaking capacity, reliable sensitive, action convenient, multi pole assembling, long life ect. The are mainly adapted to the circuit of AC 50Hz, 250V in single pole, 415V in double, three, four poles for protecting overload and short circuit. Mean while, they are also used in turning on or off the electric apparatus and lighting circuit under the normal conditions.

• Technical Parameters

Standard	EN60898(IEC60898)/IEC60947-2
Rated Voltage	230V/400V AC
Rated Current	3,6,10,16,20,25,32,40,50,63A
Rated Breaking Capacity	10KA IEC60898(3~63A)
Characteristic Curve	B, C, D
Max. Fuse That Can Be Connected To	100AGL(>10KA)
Selective Grade	3
Working Ambient Temperature	-5°C ~+40°C
Enclosed Protective Class	IP20
Nominal Frequency	50/60Hz
Maximum Operating Voltage(Ue)	≥ 400V AC
Insulation Voltage(Ui)	≥ 6KV
Voltage Testing Pulse(Uimp)	≥ 10KA
Maximum Cutting Capacity(Icu)	≥ 10KA
Electrical Life	Not less than 8000 times
Mechanical Life	Not less than 20000 times

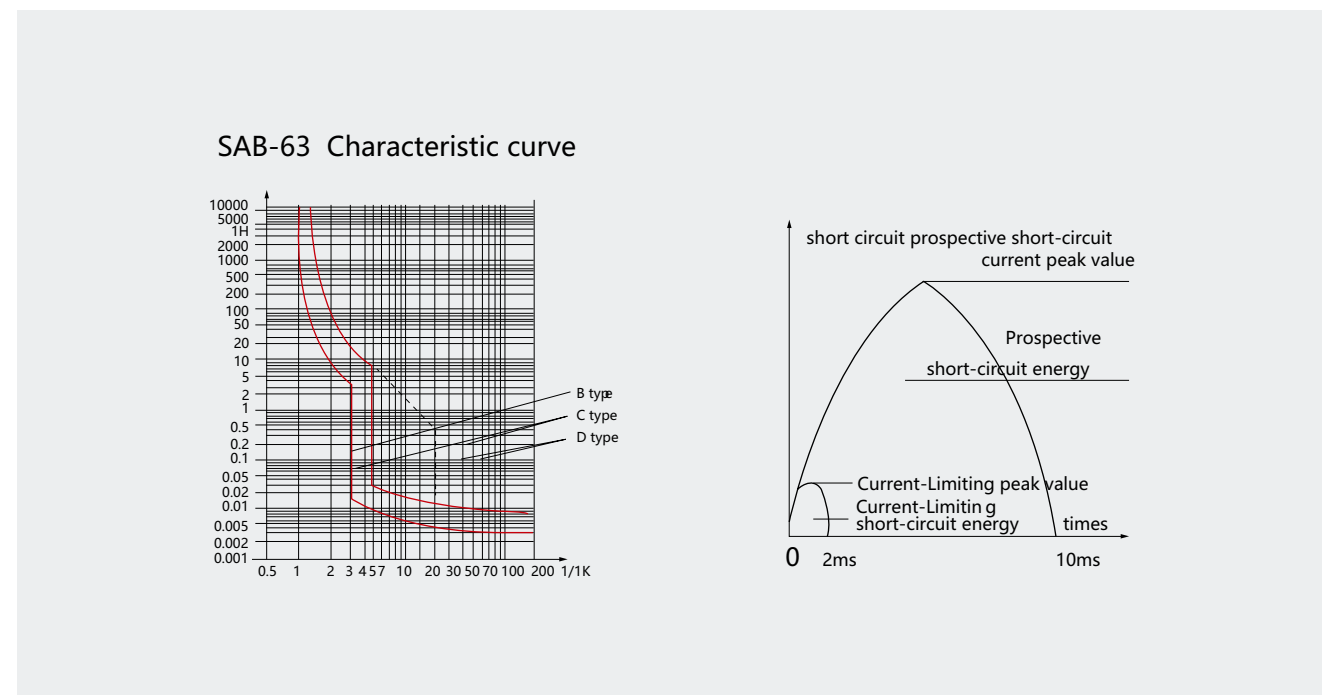
• Dimensions



• Over current tripping characteristic

Item	Model	Rated Current(A)	Initial State	Test Current	Limited Time	Limited Time	Remark
a	B, C, D	1~63	Cold state	1.13In	t 1h	Non-tripping	
b	B, C, D	1~63	Immediately after the previous test	1.45In	t<1h	Tripping	The current rise steadily to a fixed value within 5s
c	B, C, D	In ≤ 32	Cold state	2.55In	1s<t<60s	Tripping	
		In 32	Cold state	2.55In	1s<t<120s	Tripping	
	B	1~63	Cold state	3In	t ≤ 0.1s	Non-tripping	
				5In	t<0.1s	Tripping	
	C			5In	t ≤ 0.1s	Non-tripping	
				10In	t<0.1s	Tripping	
	D			10In	t ≤ 0.1s	Non-tripping	
				10In	t<0.1s	Tripping	

• Characteristic Curve



• Current correction values used at different ambient temperatures

Fixed current(A) Rated Current (A)	Temperature												
	-35	-30	-20	-10	0	10	20	30	40	50	60	70	
3A	3.9	3.78	3.69	3.57	3.42	3.3	3.12	3	2.88	2.79	2.64	2.49	
6A	7.8	7.56	7.38	7.14	6.84	6.6	6.24	6	5.76	5.64	5.28	4.98	
10A	13.2	12.7	12.5	12	11.5	11.1	10.6	10	9.6	9.3	8.9	8.4	
16A	21.12	20.48	20	19.2	18.4	17.76	16.96	16	15.36	14.88	14.24	13.44	
20A	26.4	25.6	25	24	23	22.2	21.2	20	19.2	18.6	17.8	16.8	
25A	33	32	31.25	30	28.75	27.75	26.5	25	24	23.25	22.25	21	
32A	42.56	41.28	40	38.72	37.12	35.52	33.93	32	30.72	29.76	28.16	26.88	
40A	53.2	51.2	50	48	46.4	44.8	42.4	40	38.4	37.2	35.6	33.6	
50A	67	65.5	63	60.5	58	56	53	50	48	46.5	44	41.5	
63A	83.79	81.9	80.01	76.86	73.71	73.71	66.78	63	60.48	58.9	55.44	52.29	

• Current correction factor used at different altitudes

Rated Current (A)	Different altitude correction factors		
	≤ 2000m	2000~3000m	≥ 3000m
3,6,10,16,20,25,32,40,50,63A	1.0	0.9	0.8

• Wire connection terminals

Rated current In(A)	Copper wire nominal cross sectional area(mm)
3,6	1
10	1.5
16,20	2.5
25	4
32	6
48	10
63	10



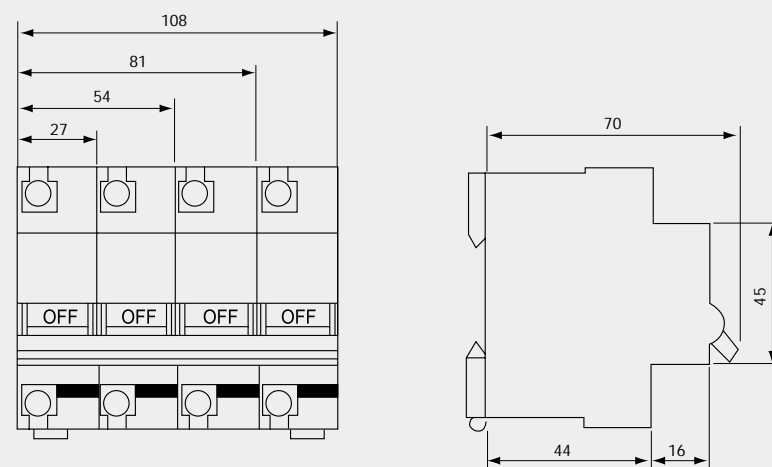
• Application

SAB-125 high breaking capacity circuit breaker is used for AC 50/60HZ, single-pole 230V or two, three, four-pole 415V circuit for protecting the circuit that overload and short circuit may take place. It can be used in lighting and electric motor distribution system. Mean while it is applicable to an unfrequented switch over the electric apparatus and lighting circuit under normal condition. Breaking capacity is up to standard of IEC60947-7 10KA.

• Specifications

Rated Current	63, 80, 100, 125A			
Rated Voltage	230V/415V AC			
Electrical Life	6000 Times			
Mechanical Life	20000 times(C.O.)			
No. of Pole	1P, 2P, 3P, 4P			
Weight	1P	2P	3P	4P
	150	300	450	600

• Dimensions



• Over current tripping characteristic

Item	Rated Current(A)	Initial State	Test Current	Limited Time	Prospective Result	Starting State
a	$I_n=63$	Cold state	$1.05I_n$	$t \leq 1h$	Non-tripping	
	$I_n>63$	Cold state	$1.05I_n$	$t \leq 2h$	Non-tripping	
b	$I_n=63$	Hot state	$1.3I_n$	$t < 1h$	Tripping	The current rise steadily to a fixed Tripping value within 5s
	$I_n>63$	Hot state	$1.3I_n$	$t < 2h$	Tripping	
c	$I_n \geq 63$	Cold state	$8I_n$	$t \leq 0.2s$	Non-tripping	
			$12I_n$	$t < 0.2s$	Tripping	

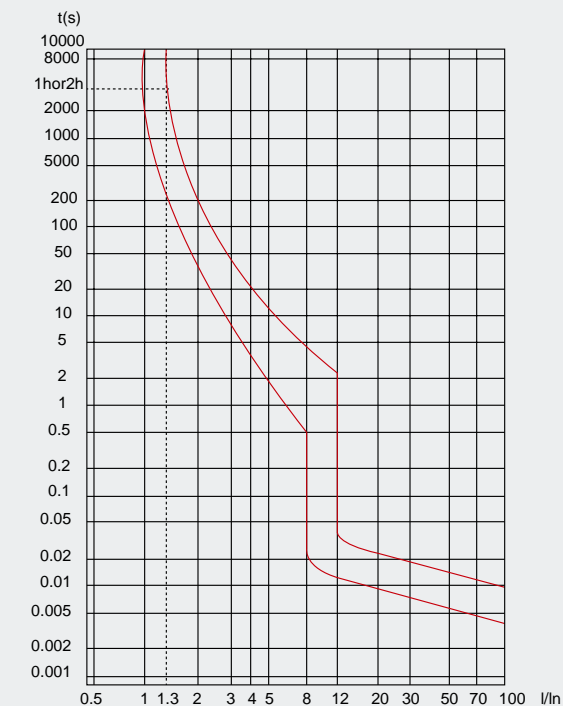
• Current correction values used at different ambient temperatures

Fixed current(A) Rated Current (A)	Temperature											
	-35	-30	-20	-10	0	10	20	30	40	50	60	70
63A	90.40	88.52	84.75	80.33	76.55	72.45	67.73	63	57.65	51.98	46.31	40.95
80A	114.8	112	106.8	101.6	96.4	90.8	85.6	80	74	67.6	60.4	53.2
100A	143.5	140.5	134.5	127.5	121	113.5	107.5	100	92.5	84.5	75.5	66.5
125A	178.75	173.75	164.38	156.25	148.75	140.63	135	125	116.25	107.5	97.5	85

• Current correction factor used at different altitudes

Rated Current (A)	Different altitude correction factors		
	$\leq 2000m$	2000~3000m	$\geq 3000m$
63,80,100,125A	1.0	0.9	0.8

• Dimensions





• **Application**

SABM series moulded case circuit breaker is a new type product developed and manufactured by Adopting international advanced technology. It is supplied with rated insulation voltage 800V and used for circuit of AC 50Hz, rated operation voltage AC 400V or below rated operation current up to 1600A for infrequent changing over and starting of the motors. Equipped with the protection devices for over-current, short circuit and under voltage, the product is capable of preventing damage of circuits and supply units. The product conforms to IEC60947-2 standard.

• **Working Condition**

- Not over altitude 2000m
- Ambient temperature is between -5°C to +40°C
- Withstand the influence of moist air;
- Withstand the influence of smoke fog, salt mist;
- Withstand the influence of fungus;
- The max. gradient is 22.5°C;
- Working reliable under the condition of normal vibration in ship;
- Working reliable under the condition of earth quake(4g);
- Working in the medium which not any explosive, no enough dielectric to corrode metal, no gas to damage insulation and electric conduction dust.
- Working in the place would not be invaded by rain and snow.

• **Working Condition**

- According to the pole number of products, it classifies two-pole(100A, 225A), three-pole(no four-pole for SABM-800), the neutral pole(N-pole) of the four-pole breakers has four types:
Type A: N-pole without over-current release unit, it has been connected all along, and does not act with other three-pole to turn on or off.
Type B: N-pole without over-current release unit, it could act with other three-pole;
Type C: N-pole fixed with over-current release unit, it could act with other three-pole;
Type D: N-pole fixed with over-current release unit, it has been connected all along, and does not act with other three-pole to turn on and off.
- According to rated current of products, it classifies:
SABM-63: (6), 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, (no over-load protection for 6A);
SABM-125: (10), 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A;
SABM-250: 100A, 125A, 140A, 160A, 180A, 200A, 225A, 250A;
SABM-400: 225A, 250A, 315A, 350A, 400A;
SABM-630: 400A, 500A, 630A;
SABM-800: 630A, 700A, 800A;
- According to connection mode, it classifies front in wiring, rear in wiring, and plug in type.
- According to over-current release type, it classifies the thermodynamic-magnetic (binary) type and magnetic (instantaneous) releases.

• **Protective Characteristics**

The thermodynamic of a circuit breaker provides the feature of inverse time-delay, while the magnetic release the instantaneous operation as shown on Table 1 (distribution circuit breaker) and Table 2 (motor protection circuit breaker):

Table 1(for distribution)

Rated current of release(A)	Thermodynamic release(ambient temp:land+40°C ,marin+45°C)		Electromagnetic release action current(A)
	1.05In(cold state) Non-action time(h)	1.30In(Hot state) Action time(h)	
10 ≤ In ≤ 63	1	1	10In±20%
63 ≤ In ≤ 100	2	2	
100 ≤ In ≤ 800	2	2	5In±20% 10In±20%

Table 2(for protective motor)

Rated current of release(A)	Thermodynamic release(ambient temp:land+40°C ,marin+45°C)				Electromagnetic release action current(A)
	1.0In(cold state) Non-action current(A)	1.20In(Hot state) Action time(h)	1.50In(Hot state) Action time(h)	7.2In(cold state) Nonaction time(h)	
10 ≤ In ≤ 255	2	2	4min	4s < Tp ≤ 10s	12In±20%
225 ≤ In ≤ 800			8min	6s < Tp ≤ 20s	

Note: No 5In magnetic release on 100A, 125A or SABM-160 and SABM-225.

• **Current correction values used at different ambient temperatures**

Model	Rated Frame Current (A)	Rated Current (A)	Rated Working Voltage (V)	Rated Insulated Voltage (V)	Rated Ultimate Short-circuit Breaking Capacity KA 400V	Rated Runging Breaking Capacity KA 400V	Overall Dimension			Mounting Dimension(Front in Wiring)		
							L	W 3P/4P	H	A	B	4-φd
SABM-63L	63	6,10,16,20,25,32,40,50,63	AC400V	AC500V	25	18	135	78	73.5	25	117	Φ3.5
SABM-63M					50	35	135	78/103	81.5			
SABM-125L	125	10,16,20,25,32,40,50,63,80,100,125	AC690V	AC800V	35	22	150	92	68	30	129	Φ4.5
SABM-125M					50	35	150	92/122	86			
SABM-125H					85	50	150	92/122	86			
SABM-250L	250	100,125,140,160,180,200,225,250	AC690V	AC800V	35	22	165	107	86	35	12	Φ4.5
SABM-250M					50	35	165	107/142	103			
SABM-250H					85	50	165	107/142	103			
SABM-400L	400	225,250,315,350,400	AC690V	AC800V	50	35	257	150/198	105	44	194	Φ7
SABM-400M					65	42	257	150	106.5			
SABM-400H	100	65	257	150	106.5	44	194	Φ7				
SABM-630L	630	400,500,630	AC690V	AC800V	50	35	270	182/240	110	58	200	Φ7
SABM-630M					65	42	270	182	110			
SABM-630H					100	65	275	210	115.5			
SABM-800M	800	630,700,800	AC690V	AC800V	75	50	275	210	115.5	70	243	Φ7
SABM-800H					100	65						

See Table 4 for sectional area of connecting conductor and the proper rated current:

Rated Current Value	10	16.20	25	32	40.50	63	80	100	125	160	180,220,225	250	315,350	400
Cable(mm²)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	185	240

Table5

Rated Current Value	Cable		Copper Row	
	Cable(mm²)	Quantity	Dimension(mm)	Quantity
500	150	2	30×5	2
630	185	2	40×5	2
700,800	200	2	40×5	2

SASP

AC Surge Protective Device



SAHB

SAHB | SUTP-A

Type 1 AC Surge Protective Device



- Application
- Large discharge energy
- No leakage
- No follow current
- Modular installation
- High safety coefficient
- Long service life
- Strong environmental resistance
- Voltage protection level is less than 2500V

SUTP-A series voltage limiting type/voltage switching type primary power surge protectors are designed according to IEC and EN 61643 standards, and applied to surge protection at the first stage of the power supply system. Products are standard 35mm rail mounting methods.

SUTP-A series voltage limiting type/voltage switching type primary power surge protectors with high flow capacity, single module impact current up to 50kA(10/350s), can prevent all kinds of lightning surge. Products are applied to the power supply of the equipment system in the higher risk area of lightning strike. The first surge protection can be used in single phase/three-phase power supply line.

• The scope of products

- Main power distribution panel in buildings
- Outdoor distribution cabinet/distribution box
- Overhead distribution box in buildings

• Product capability parameter

Model	SUTP-A15	SUTP-A25	SUTP-A50
SPD port	2 Poles	3Poles	4Poles
SPD category	Voltage limited type	Voltage limited type	Voltage limited type
Test category	Class I test	Class I test	Class I test
Un	220/380VAC; 50/60Hz		
Uc	275/385/420VAC; 50/60Hz		
Insulation resistance	> 100MΩ	> 100MΩ	> 100MΩ
Iimp(10/350μs)	15kA	25kA	50kA
Up(1.2/50μs)	1.5kV	1.5kV	1.8kV
tA	≤ 100ns	≤ 100ns	≤ 100ns
Size	144×90×66	144×90×66	144×90×66
Sectional area of wires	6~25mm ²	6~25mm ²	6~25mm ²
Installation method	35mm standard rail(EN50022/DIN46277-3)		
Working environment temperature	-40~85°C		
Sheathing material	Plastic, accord with UL94 V-0		
Protection level	IP20		
Authentication	CQC CE Type test		

SAHB

AC SPD



• Application

SASP-PV series surge protection device (in short SPD, alias: surge suppressor surge arrester) is suitable for TN-S, TN-C-S, TT, IT etc, power supply system of AC 50/60Hz, <380V, installed on the joint of LPZ1 or LPZ2 and LPZ3. It's designed according to IEC61643-1, GB18802.1, it adopts 35mm standard rail, there is a failure release mounted on the module of surge protection device, When the SPD fails in breakdown for over heat and over-current, the failure release will help electric equipments separate from the power supply system and give the indication signal, green means normal, red means abnormal, it also could be replaced for the module when has operating voltage.

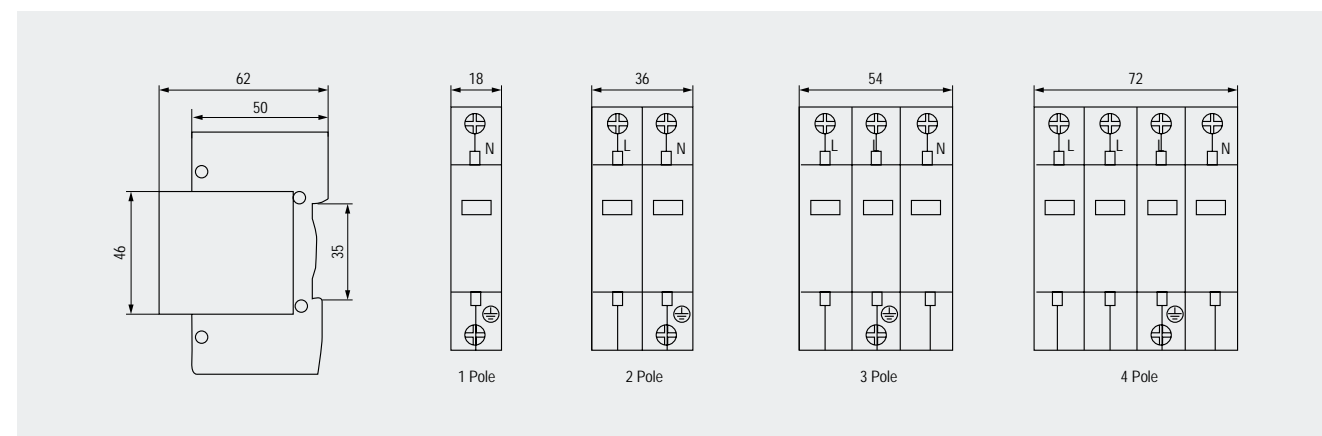
• Product Features

- Inside over-current and over-heat protection, temperature control open circuit.
- Module design, convenient installation, could be replaced online.
- Time of response <25ns
- The color of visible window shows operating status, green means normal, red means abnormal

• Specifications

Pole	1P	2P	3P	4P	
Rated Operating Voltage Un(V~)	230V/275V		385V/420V		
Maximum Continuous Operating Voltage Uc(V~)	275/385/420VAC				
Voltage protection Level Up(V~)kV	≤ 2.5				
Nominal Discharge Current In μs kA	5	20	30	40	60
Maximum Discharge Current Imax μs kA	10	40	60	80	100
Response Time (ns)	<25				
Test Standard	IEC61643.1, GB18802.1				
Operating Environment(centigrade)	-40°C ~ +85°C				
Max Connection Line	35mm ² hard wire/35mm ² strand wire copper line				
Recommended Connection Line	16mm ² hard wire/25mm ² strand wire copper line				
Installation	Standard Rail 35mm				
Material of Outer Covering	Burning-proof Nylon				

• Dimensions



• Application

Type 1 + 2 SPD' s have characteristics of type 1 but also type 2, they are capable of discharging a very high lightning current (T1 10/350μs) and they have as well a low residual voltage (Up). They are installed in the main distribution switchboard but also in subdistribution board. Because of their power, Type 1 + 2 SPD' s can let pass through a too high residual voltage, if the announced Up is not compatible with the withstand voltage of the equipment to protect or if the cable length to the equipment is longer than 10m,

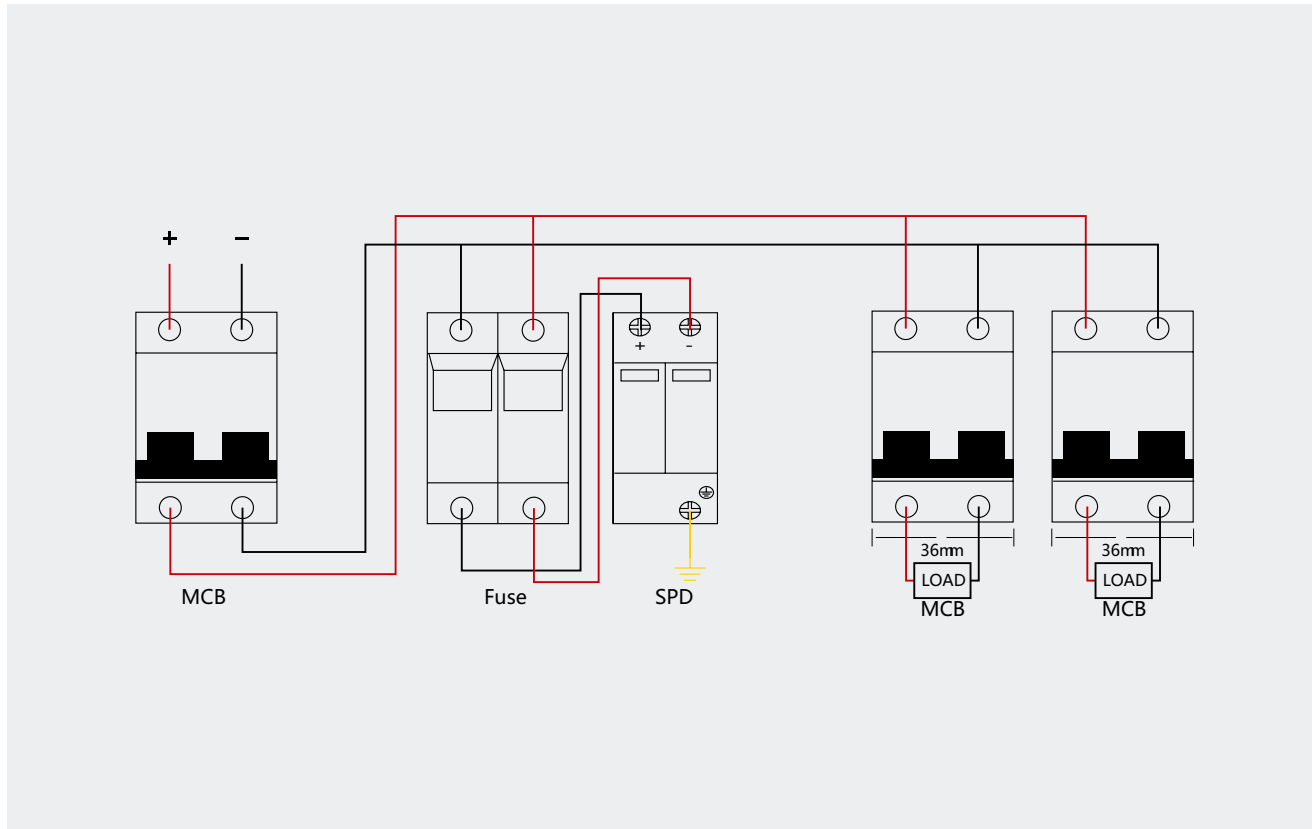
• Features

- Patented QuickSafe ® technology
- Din rail mounting
- Improved safety
- Safety Reserve system
- Pluggable
- Back up protection up to 160 A Fuse or 125 A Mcb

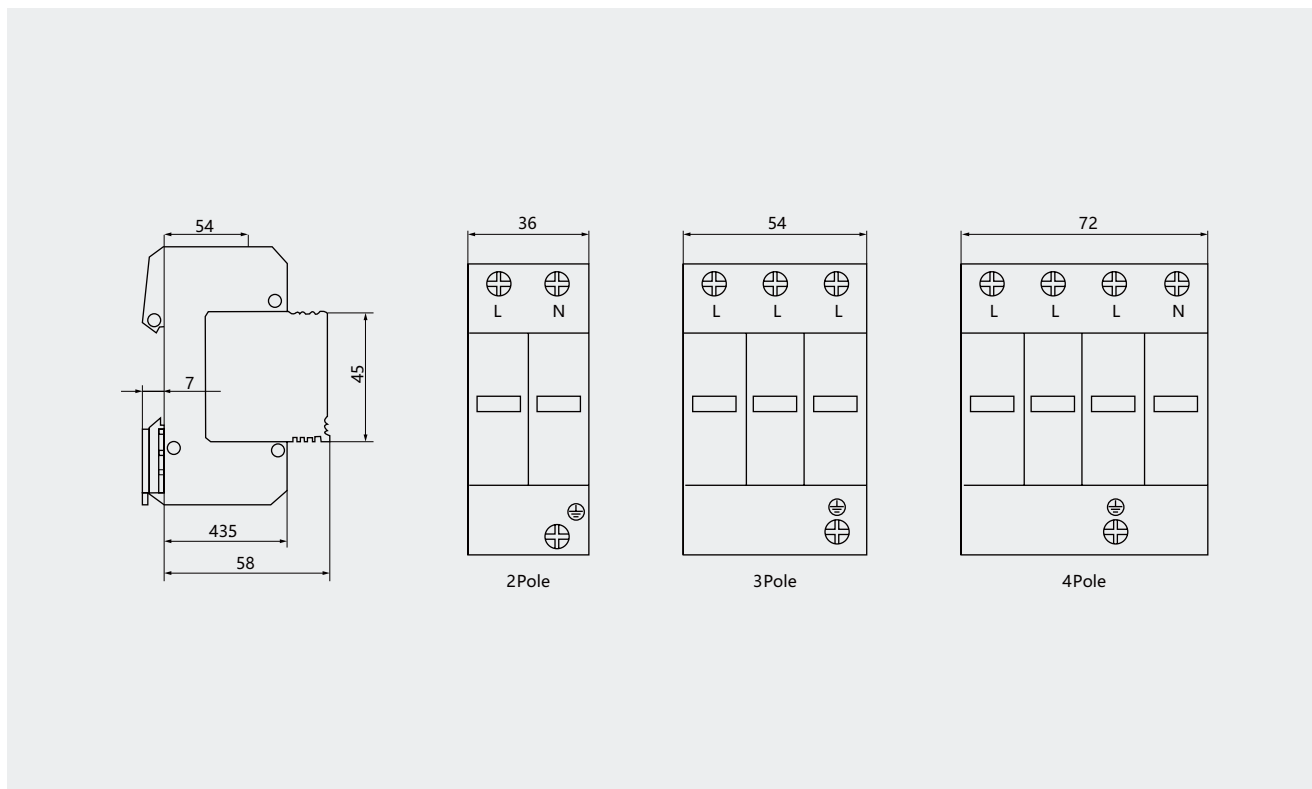
• Specifications

Key characteristics			
Protection mode	L-N/L-PE/N-PE		
Number of protected lines	1-4		
Test class	I-II		
Integrated thermal disconnecter	Yes		
End of life indicator	Yes		
Safety reserve	Yes		
Electrical characteristics			
Nominal discharge current	/n (8/20)	kA	20
Maximal discharge current	/max (8/20)	kA	40
Impulse current	/imp (10/350)	kA	7
maximal continuous operating voltage	Uc	V	275/385/420
Type of current/frequency		Hz	a.c.50/60
Voltage protection level at In	Up(L-PE)	kV	1,2
Voltage protection level at In	Up(L-N)	kV	-
Voltage protection level at In	Up(N-PE)	kV	-
Short circuit withstand	/SCCR	kA	100
Total current	/TOTAL	kA	20
Follow current interrupted	/fi	kA	-/-
Ground residual current	/PE	μA	< 350
TOV withstand(L-N:5s/N-PE:200 ms)	UT	V	337
Voltage Combination Wave	Uoc	kV	20
Required thermal/back up protection			
Curve B or C Circuit breaker		A	≤ 125
gG-gL fuse		A	≤ 160
Comments			
Mechanical characteristics			
Dimensions	H×W×D	mm	89×18×69
Wire range:Solid wire		mm ²	2.5...25
Wire range:Stranded wire		mm ²	12.5
Stripping length		mm	Per 1
Packing quantities		piece	
Miscellaneous characteristics			
Maximal altitude		m	2000
Weight		g	150
Response time		ns	25
Fire resistance according to UL 94			<V-0

• Product details



• Dimensions



• Application

SAH-63 series isolator is suitable for using in the distributing and controlling loop with AC 50Hz or 60Hz, rated working voltage 230 or 400V and below. It is mainly used for terminal electrical main switch, also can be used for controlling different motor, small power electrical and lighting and so on. This product conforms to GB14048.3/IEC60947-3 standards. NOTE: This product do not have Thermal trip and magnetic trip.

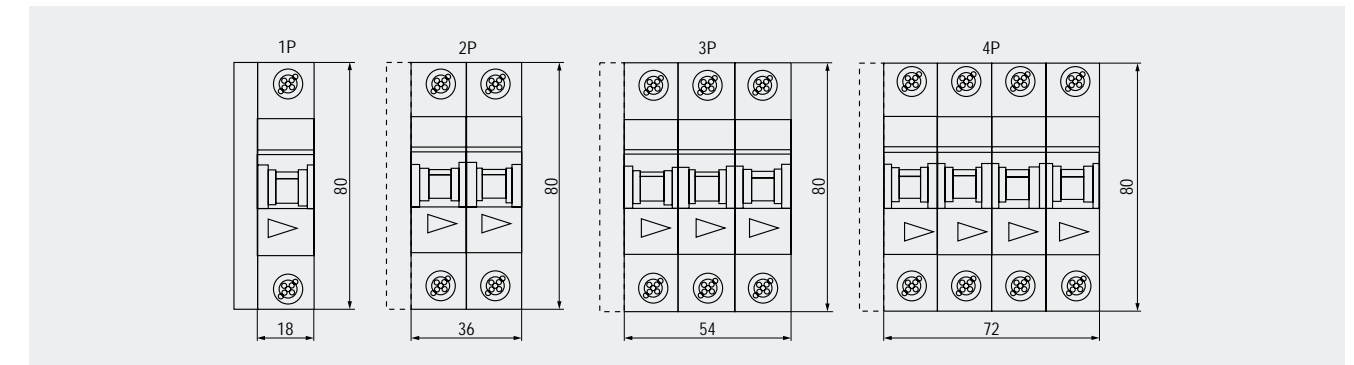
• Main Technial Parameter

1. The main technical parameter of the isolator

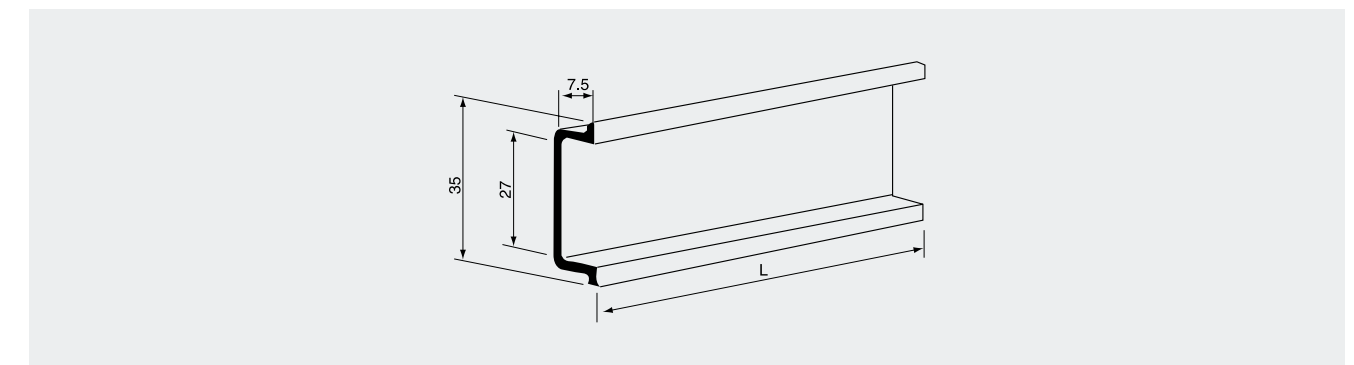
Rated Voltage(V)	Rated Current	Rated Onoff Capability	Rated Short Time Withstand Current(A)	Rated Short Circuit Onoff Capability	Rated Fuse Short Circuit Current(KA)
230/400	16,32,63	1.05Ue, 3Ie COSΦ=0.65	20Ie, t=1s	20Ie, t ≥ 0.1s COSΦ=0.9	20

- The pole No. of the breaker can be classified as:1-pole, 2-pole, 3-pole and 4-pole.
- This breaker is inlaid installation mode (can be installed on the installation rail).
- Power frequency withstand voltage:after being in condition to hot and humid performance,this breaker can bear 3000V power frequency withstand voltage test for 1 min and without any insulation flashover and breakdown phenomenon.
- Mechanical and electric life:the mechanical life is 10000 times,and electric life 6000 times.

• Overall and Instalion Dimension



• Installation





• **Application**

SAHM series moulded case isolator switch is a new type product developed and manufactured by Adopting international advanced technology. It is supplied with rated insulation voltage 800V and used for circuit of AC 50Hz, rated operation voltage AC 400V or below rated operation current up to 1600A for infrequent changing over and starting of the motors. The product conforms to IEC60947-3 standard.

NOTE: This product do not have Thermal trip and magnetic trip.

• **Working Condition**

- Not over altitude 2000m
- Ambient temperature is between -5°C to +40°C
- Withstand the influence of moist air;
- Withstand the influence of smoke fog,salt mist;
- Withstand the influence of fungus;
- The max. gradient is 22.5°C;
- Working reliable under the condition of normal vibration in ship;
- Working reliable under the condition of earth quake(4g);
- Working in the medium which not any explosive, no enough dielectric to corrode metal,no gas to damage insulation and elctric conduction dust.
- Working in the place would not be invaded by rain and snow.

• **Classification**

- According to the pole number of products,it classifies two-pole(100A, 225A), three-pole(no four-pole for SAHM-800), the neutral pole(N-pole) of the four-pole breakers has four types;
- According to rated current of products, it classifies:
SAHM-63: (6) 32A, 40A, 50A, 63A;
SAHM-125: (10) 63A, 80A,100A, 125A;
SAHM-250: 125A, 140A, 160A,180A, 200A, 225A, 250A;
SAHM-400: 225A, 250A, 315A, 350A, 400A;
SAHM-630: 400A, 500A, 630A;
SAHM-800: 630A, 700A, 800A;
- According to connection mode, it classifies front in wiring,rear in wiring, and plug in type.
- According to over-current release type, it classifies the thermodynamic-magnetic (binary) type and magnetic (instantaneous) releases.

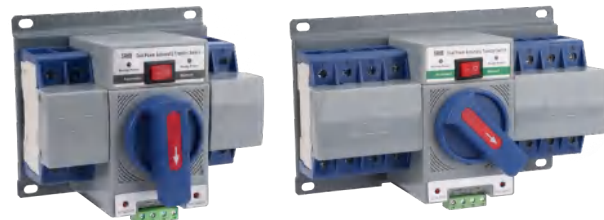
• **Technical Parameter for The Breaker**

Model	Rated Frame Current (A)	Rated Current (A)	Rated Working Voltage (V)	Rated Insulated Voltage (V)	Overall Dimension	Mounting Dimension(Front in Wiring)
SAHM-63	63	6,10,16,20,25,32,40,50,63	AC400V	AC500V	135 78 73.5	25 117 Φ3.5
SAHM-125	125	10,16,20,25,32,40,50,63,80,100	AC690V	AC800V	150 92 68	30 129 Φ4.5
SAHM-250	250	100,125,140,160,180,200,225	AC690V	AC800V	165 107 86	35 12 Φ4.5
SAHM-400	400	225,250,315,350,400	AC690V	AC800V	257 150/198 105	44 194 Φ7
SAHM-630	630	400,500,630	AC690V	AC800V	270 182/240 110	58 200 Φ7
SAHM-800	800	630,700,800	AC690V	AC800V	275 210 115.5	70 243 Φ7

STS/SNTS/STSM

Dual Power Transfer Switch





• **Application**

STS Micro-Breaking Dual Power Transfer Switch (hereinafter referred to as transfer switch) is suitable for AC 50/60Hz dual power supply system with rated operating voltage of 400V and rated operating current from 16~63A. Optional transfer of dual power can be made according to requirement. The product owns short circuit, overload, under voltage and loss-of-voltage protection function, as well as fire protection, double-break and output ON signal function. It's especially suitable for lighting circuit of office building, mall, bank, bus station and high-rise building requiring fire product complies with GB/T14048.11 standard.

• **Working Condition**

- The ambient temperature shall not be higher than +40°C , or lower than -5°C , and the daily average shall not exceed +35°C .
- The altitude of installation site shall not exceed 2000m.
- Relative humidity shall not exceed 50% at the ambient temperature of +40°C, a higher humidity is allowable at a lower temperature, the average maximum relative is 90% in the wettest month at a monthly average minimum temperature of +25°C , and special measures shall be taken for the condensation on surface of product due to temperature change
- Pollution class: class III.
- In place of no intense vibration and impact, no harmful gas corrosive and disruptive to the insulation, no severe dust, no conducting microparticle and explosive substance, no high electromagnetic interference.

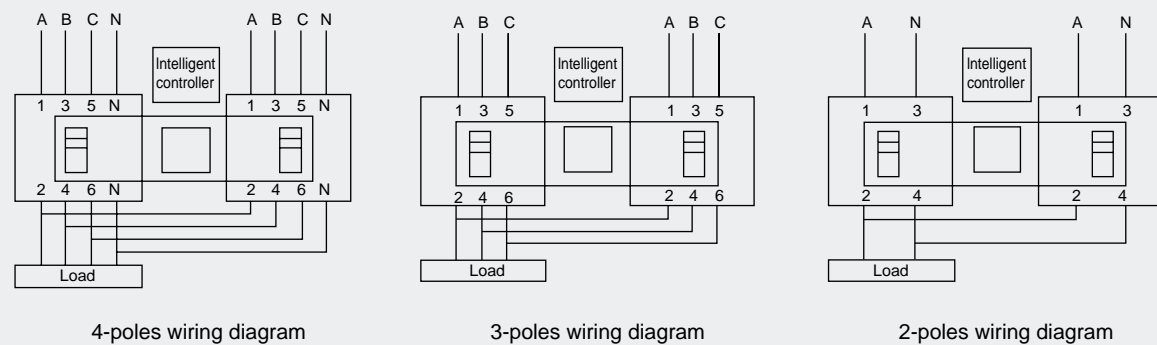
• **Specifications**

Making and Breaking Capacity

Utilization Category	Making and Breaking Test Condition					
	I/le	U/UE	CosΦ	Electrical time(s)	Duration of cycle(min)	Number of operating cycles
Ac-B33	6.0	1.05	0.5	0.05	≤ 5 12	

Note: AC-B33 motor load or combined load including motor and resistance load under infrequent operation condition

• **Wiring diagram**



• **General**

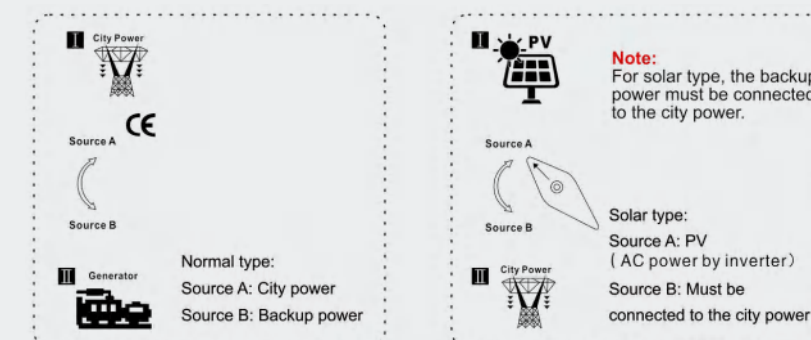
The dual power automatic switch is a newly developed miniature household power switch, which is mainly used to test whether the main power supply or standby power supply is normal. When the normal power supply is abnormal, the standby power supply starts to work immediately, which ensures the continuity, reliability and safety of power supply. This product is specially designed for household rail installation and is specially used for PZ30 distribution box.

The dual power automatic switch is suitable for emergency power supply systems with 50 or 60Hz and rated 400V AC. ATS has the characteristics of solid structure, reliable conversion, convenient installation and maintenance and long service life. It is widely used in various occasions where power failure cannot be sustained, and can be operated by electricity or manually. ATS is composed of TSE and controller. According to GB/T14048.11, Part 6-1: multifunctional equipment and switchgear is formulated. It can be seen that ATS is the most qualified low-voltage switchgear and control device.

• **Main technical parameters**

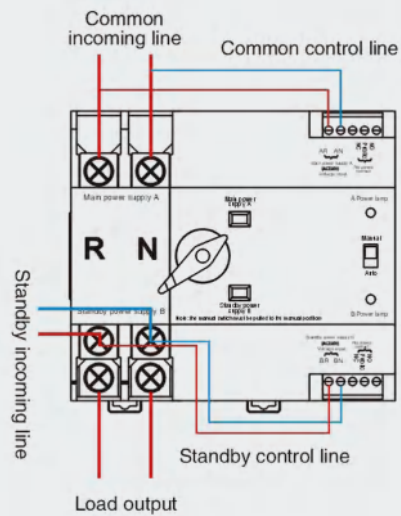
Specification	125A		
Rated current Ie(A)	16, 20, 25	32, 40, 50, 63	80, 100, 125
Insulation voltage Ui	AC690V, 50Hz		
Rated voltage Ue	AC400V, 50Hz		
Classification	PC class: can be manufactured and withstood without short circuit current		
Utilization category	AC-33iB		AC-31B
Pole No.	2P	3P	4P
Weight(kg)	1.7	2.1	2.6
Electrical	Life: 2000 times; Manual operation: 5000 times		
Rated short circuit current Iq	50kA		
Short circuit protection device (fuse)	RT16-00-63A		
Rated impulse withstand voltage	8kV		
Control circuit	Rated control voltage Us: AC220V/50Hz Normal working conditions: 85-110%Us		
Auxiliary circuit	2 relays, each with two sets of contact converter contact capacity: AC220V/50Hz Ie=5y		
Conversion time of contactor	<50ms		
Operation conversion time	<50ms		
Return conversion time	<50ms		
Power off time	<50ms		

• **Wiring diagram**

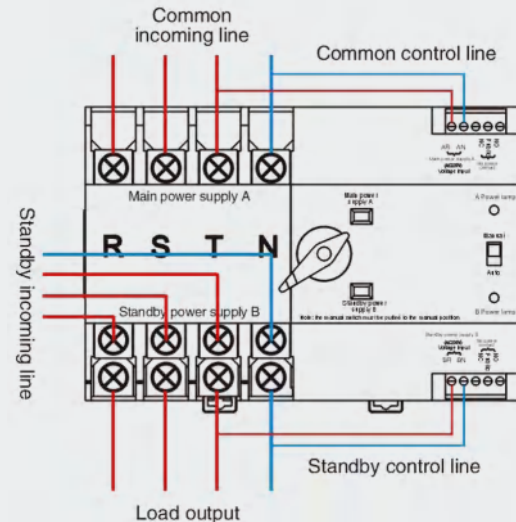


• Wiring diagram

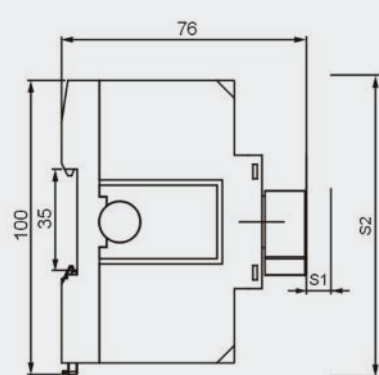
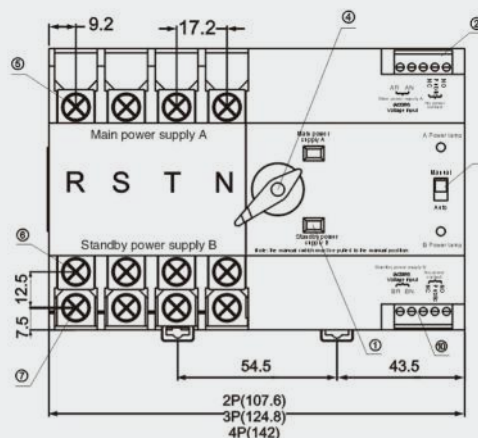
125/2P wiring diagram



125/4P wiring diagram

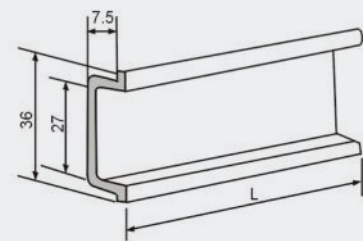


• Dimension



Safe distance: s1: ≥ 30mm S2: ≥ 203mm

- 1、 Status position indication
- 2、 Main power terminal and passive signal(AC220V)
- 3、 Manual / automatic switch
- 4、 Manual handle
- 5、 Main terminal of common power side
- 6、 Main terminal of standby power side
- 7、 Main terminal of load connection side
- 8、 A power indicator
- 9、 B power indicator
- 10、 Standby power terminal and passive signal(AC220V)



• Product Features

STSM series automatic transfer switch are mainly composed of power conversion actuator, circuit breaker and controller. This dual power switch with automatic, manual, power indicator, normal switch indicator, ready switch indicator working state. Switch's features are small volume, long life, low power consumption, light weight, stable work, easy to use and so on.



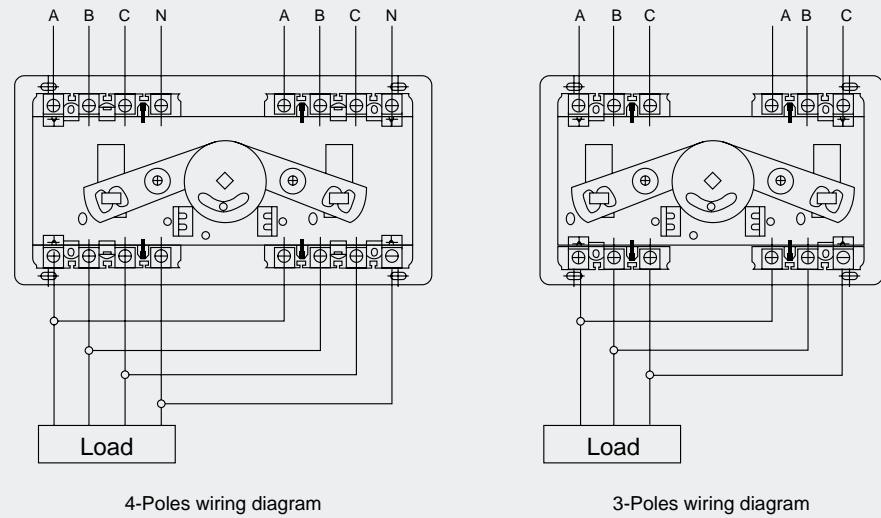
• Technical Date

Model	STSM-63	STSM-125	STSM-250	STSM-400	STSM-630	
Standard	GB/T 14048.11					
Model						
Shell Frame Current	63A	125A	250A	400A	630A	
Rated Current In (A)	10,16,20,25,32,40,50,63	25,32,40,50,63,80,100,125	100,125,140,160,180,200,225,250	225,250,315,350,400	400,500,630	
Rated Operating Voltage Ue	AC400V 50Hz					
Rated Insulation Voltage Ui	AC500V	AC800V	AC800V	AC800V	AC800V	
Rated Impulse Withstand Voltage Uimp	6KV	8KV	8KV	8KV	8KV	
Switching Poles	3P, 4P					
Life	Times	6000	6000	6000	4000	3000
Use Category	AC-33iB					
Electrical Level	CB Class					
Protection Level	IP30					
Control Characteristic Parameter						
Rated Control Supply Voltage Us	AC230V 50Hz					
Switching Time	≤ 3s	≤ 3s	≤ 3s	≤ 4s	≤ 4s	

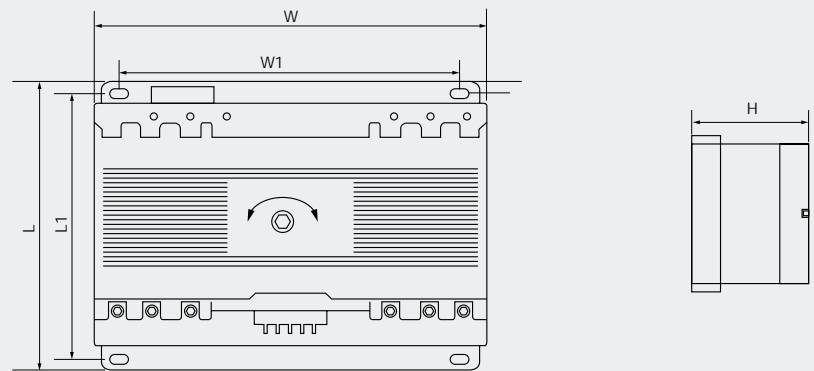
• Installation

When installing wiring, normal power N should be access to normal power supply circuit breaker QN, ready power R should be access to ready power supply circuit breaker QR. When QN and QR is 4 poles circuit breaker, wiring mode according to the wiring diagram, which QN and QR's 1, 3, 5 are three-phase (A, B, C) into line terminals, 2, 4, 6 are three-phase outgoing line terminals, 7 is zero line (N) into line terminal, 8 is zero line outgoing line terminal. If the use of 3 poles circuit breaker, the normal power N's zero line (NN) and ready power R's zero line (NR) must be respectively received on 3 poles special connection zero line terminal. Specific see wiring diagram. Dual power transfer switch automatic controller's work power supply circuit breaker QN and QR's into line terminal A and zero line N, in the automatic power switch installation, wiring process, Do not let the local controller to forget to connect the signal line, touch off or short circuit and so on, otherwise can not work.

Main circuit wiring diagram



• Dimension

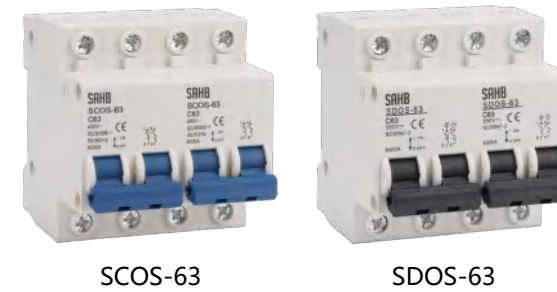


• Specifications

Type	External dimensions			Installation dimensions	
	W	L	H	W1	L1
STSM-63/3P/4P	290×240×135			255×220	
STSM-125/3P/4P	320×240×140			285×220	
STSM-250/3P/4P	370×240×160			335×220	
STSM-400/3P/4P	525×330×190			465×300	
STSM-630/3P/4P	650×330×190			585×300	

• Product Application

SCOS/SDOS Series can be used as a hand-operated miniature dual power transfer switch. In the case of SCOS/SDOS Series is suitable for use in industrial, shopping malls, shops, one side breaker closing, the other side of the circuit breaker can only be kept disconnected, and the protection functions of the common power supply (mains) and standby power supply line switching can be realized. hospitals, mines, schools, government agencies and other special places with two main lines, often used with voltage regulators and other electrical appliances.



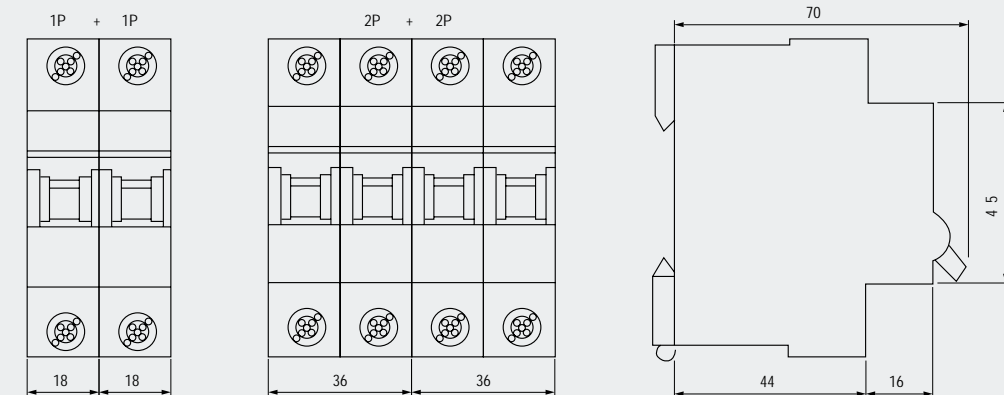
• Product Features

- The product has increased the interlocking function, that is, in the case of the closing of one side of the circuit breaker, the other side of the circuit breaker can only maintain the disconnected state, and realize the protection functions such as line switching.
- The product has overload and short circuit protection functions, can be automatically disconnected when a fault occurs on the line, protect the line.
- Power in and out, in line with the characteristics of the power line, easy installation.

• Technical Parameters

Name	Manual transfer switch	
Rated current	1-63A	80-125A
Rated current	1P, 2P,3P,4P	
Rated working voltage	230/400VAC; 250/550VDC	
Frequency	50HZ	
Rated short circuit breaking capacity	4000A	10000A

• Dimensions (SCOS/SDOS-63)





- Simple on-site processing.
- Accommodates PV cable with different insulation diameters.
- Mating safety provided by keyed housings.
- Multiple plugging and unplugging cycles.
- High current carrying capacity.

• **Technical Parameters**

Order NO.	Part P/N		Cable special	
	Connector	Terminal	Conductor size(mm ²)	Cable OD(ΦDmm)
SMC4-CMMM-14	FMC4-CMMM-H	SMC4-CM-T14	AWG14(2.5 mm ²)	Φ4.5-Φ8.5
SMC4-CMMM-12		SMC4-CM-T12	AWG12(4.0 mm ²)	
SMC4-CMMM-10		SMC4-CM-T10	AWG10(6.0 mm ²)	
SMC4-CFPM-14	FMC4-CFPM-H	SMC4-CF-T14	AWG14(2.5 mm ²)	Φ4.5-Φ8.5
SMC4-CFPM-12		SMC4-CF-T12	AWG12(4.0 mm ²)	
SMC4-CFPM-10		SMC4-CF-T10	AWG10(6.0 mm ²)	

• **Technical Parameters**

Rated Current	30A(4.0-6.0mm ²)	45A(4-6mm ²)
Rated Voltage	1000V DC	1500V DC
Test Voltage	6000V(50Hz, 1min)	
Overvoltage Type/Pollution Degree	CAT III /2	
Contact Resistance Of Plug Connector	1mΩ	
Contact Material	Copper, Tin-plated	
Insulation Material	PPO	
Degree Of Protection	IP2X/IP67	
Flame Class	UL94-VO	
Safety Class	II	
Suitable Cable	OD 4.5-8.5(4.0-6.0mm ²)	
Insertion Force/Withdrawal Force	≤ 50N/ ≥ 50N	
Connecting System	Crimp connection	
Temperature Range	-40°C ~ +125°C	



- Plug FMC4B-2M1F
- Socket FMC4B-2F1M

• **Specifications**

Type And Meaning	
Available Branch Type	2-1, 3-1, 4-1, 5-1
Rated Current	30A
Rated Voltage	1000V DC
Test Voltage	6000V(50Hz, 1min)
Overvoltage Category/Pollution Degree	CAT III /2
Contact Resistance Of Plug Connector	1mΩ
Contact Material	Copper, Tin-plated
Insulation Material	PA/PRO
Degree Of Protection	IP2*/IP67
Flame Class	UL94-VO
Safety Class	II
Insertion Force	≤ 50N
Withdrawal Force	≥ 50N
Temperature Range	-40°C ~ +110°C



• **Application**

A range of 10x38mm fuse links specifically designed for protecting photovoltaic strings. These fuse links are capable of interrupting low overcurrents associated with faulted photovoltaic string arrays (reverse current, multi-array fault).

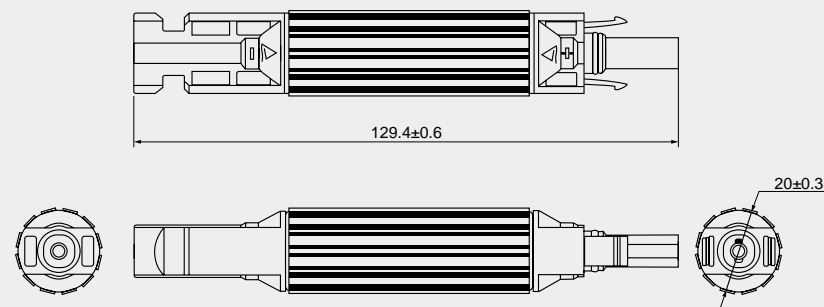
• **Structural Characteristics**

- Solar PV Fuse Holder, DC 1000V, up to 30A fuse.
- IP67, 10x38mm Fuse Copper.
- Suitable connector is MC4 Connector.

• **Specifications**

Technical Data	
Rated Current	32A(According to the FUSE)
Rated Voltage	1000V DC
Test Voltage	6000V(50Hz, 1min)
Overvoltage Category/Pollution Degree	CAT III /2
Contact Resistance Of Plug Connector	1mΩ
Contact Material	Copper, Ag plated
Insulation Material	PPO
Degree Of Protection	IP2*/IP67
Flame Class	UL94-VO
Safety Class	II
Insertion Force/ Withdrawal Force	≤ 50N/ ≥ 50N
Connecting System	Crimp connection
Temperature Range	-40°C ~ +125°C

• **Dimensions**



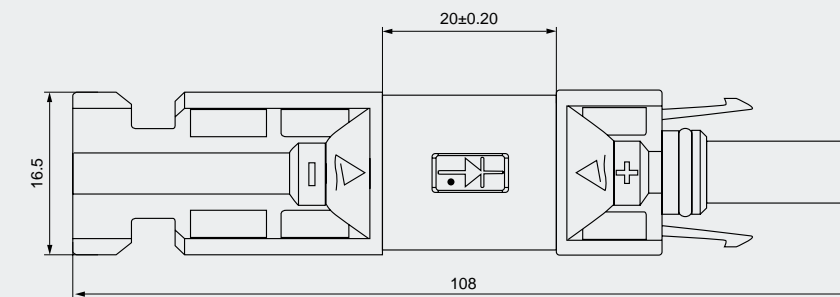
• **Main Speciality**

- The fuse/diode series connectors.
- Low power loss.
- Auto-lock equipment of male and female points enable connection more easy and reliable.
- With the capacity of anti-aging and resistance to ultraviolet radiation on the outer cover.
- Popular figure suit most of field installation.
- Simple on-site processing.
- With convenient installation, strong commonality.

• **Specifications**

Technical Data	
Insulation Material	PPO
Contact Material	Copper, Tin plated
Adapting Current	10A/15
Rated Voltage	1000V
Test Voltage	8000V(TUV50Hz, 1min)
Contact Resistance	<0.5mΩ
Degree Of Protection	IP67
Ambient Temperature Range	-40°C ~ +85°C
Flame Class	UL94-VO
Safety Class II	II
Pin Dimensions	Φ4mm

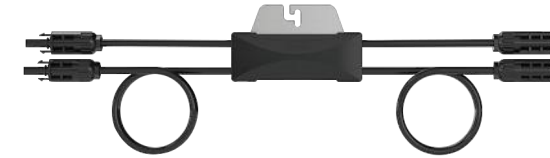
• **Dimensions**





• **Technical Parameters**

Input string	2/4/6/8/10/12/16/20		
Electric parameter			
System maximum DC voltage	550	1000	1500
Maximum input current for each string	standard		
Maximum input strings	standard		
Maximum output switch current	standard		
Number of inverter	N		
Number of output strings	standard		
Lightning protection			
Category of test	II grade protection		
Nominal discharge current	20kA		
Maximum discharge current	40kA		
Voltage protection level	3.8KV		
Maximum continuous operating voltage U _c	1050V		
Poles	2P/3P		
Structure characteristic	Plug-push module		
System			
Protection grade	IP65		
Output switch	DC isolation switch (optional)/DC circuit breaker (standard)		
SMC4 Waterproof Connectors	Standard		
PV DC FUSE	Standard		
PV Surger protective device	Standard		
Monitoring module	Optional		
Preventing diode	Optional		
Box material	PC		
Installation method	Wall mounting type		
Operating Temperature	-25°C ~ +55°C		
Elevation of Temperature	2km		
Permissible relative humidity	0-95%, no condensation		
Mechanical parameter			
DC combiner box can be customized			



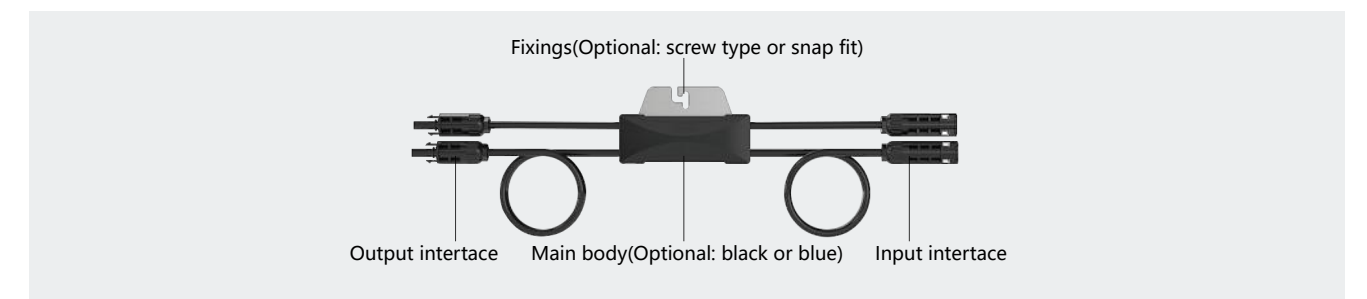
• **Main Speciality**

- Shutdown while ambient temperature is over 85° C
- Slim size match module perfectly
- Flame retardant rating: UL94-V0
- Protection Level: IP68

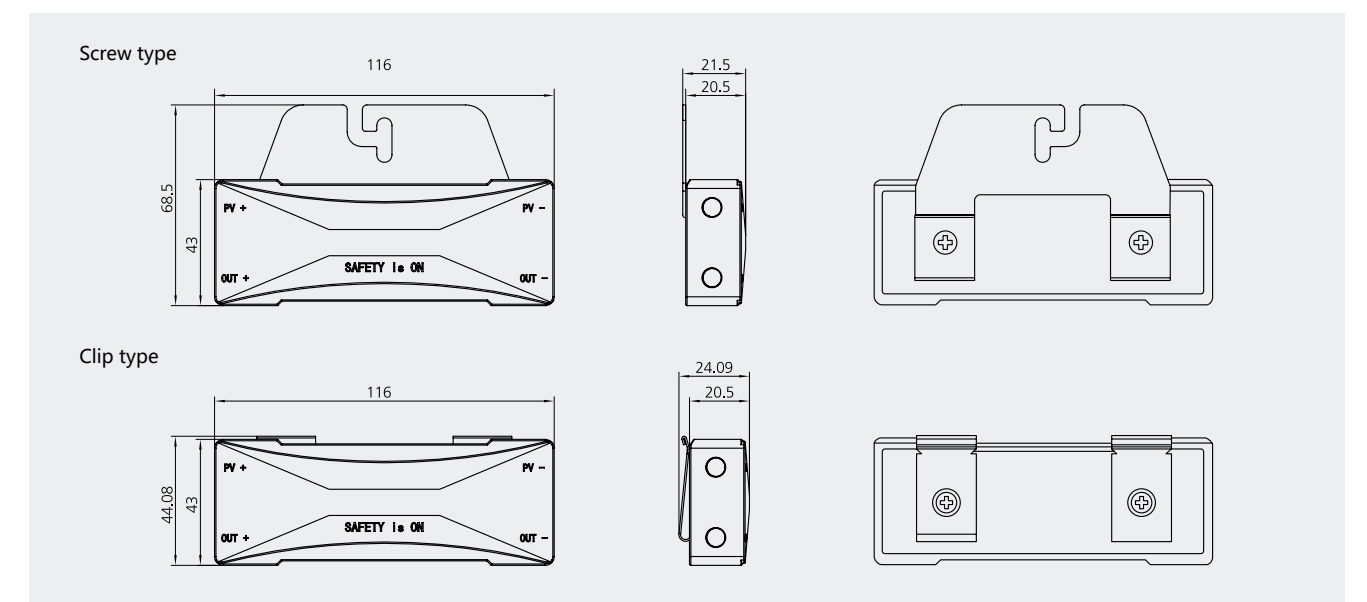
• **Specifications**

Standard	Data	Standard	Data
Maximum Allowed Input Voltage	80V	Supply voltage	PV panels
Maximum Output Voltage	80V	Protection level	IP68
Number of connectable panels	1/2	Fire-proof level	UL94-V0
Maximum input current	15A/25A	Humidity	0%~90% at 20°C
Maximum short circuit current	15A/25A	Interface	MC4
Maximum system voltage	1000V(1500 optional)	Warranty	10 Years
Operating temperature	Negative 30-80°C (automatically shut down if over 85°C)	Panel cable length	280±10mm
Operating environment temperature	Negative 30°C ~ +55°C	String cable length	1280±10mm
		Communication	PLC
		Standards compliant	UL1741/NEC 017690.12

• **Product details**



• **Dimensions**





• **Main Speciality**

- Max shut down one or two strings modules
- Maximum circuit current 55A
- Maximum circuit voltage 1500vdc
- CE certificated
- PC+ABS material, IP66 protection grade
- Multi clock interface type optional (knockout hole / gland /MC4 terminal)
- The Isolation switches are TUV.CE.CB.SAA certificated
- Waterproof Vent valve to avoid condensation inside the shell
- Advanced temperature sensor is used to detect the highest temperature in the shell in real time temperature, when the internal temperature exceeds 70 degrees, automatic cut-off switch
- It is suitable for residential, industrial and commercial photovoltaic systems

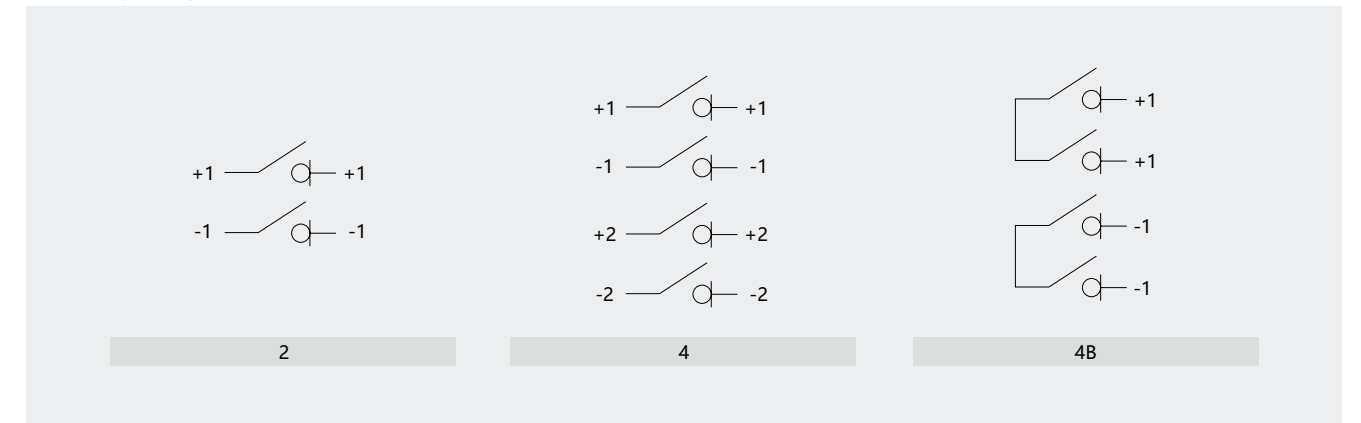
• **Specifications**

Standard	Data
Main parameter	SRS
String voltage (VDC)	300~1500
String current(A)	9~55
Circuit	1/2
Connection mode of Isolation switch	2/4/4B
Working voltage	100Vac - 270Vac
Rated voltage	230Vac
Rated current	30mA
Starting (loading) current	100mA(AVG)
Action current	300mA(Max)
Contact action condition	24Vdc-300mA(Max)
Operating temperature	-20° C±50° C
Maximum temperature before automatic shutdown	≥ 70° C
Storage temperature	-40° C±85C
Protection level	IP66
Over current protection	II
Authentication	CE
The DC isolation switch meets the standard	EN 60947-1&3
Mechanicallife	10000
Number of loaded operations (PV1)	> 1500

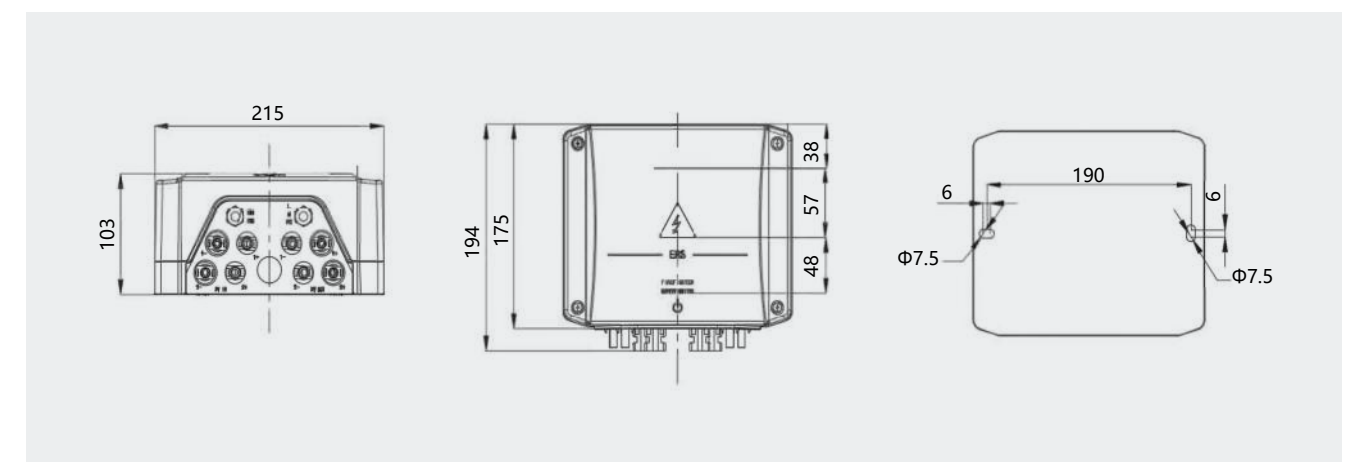
• **Specifications**

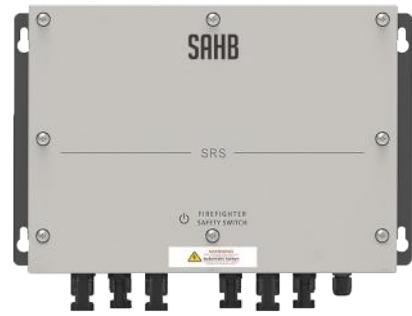
Model	Circuit	Pole number	Data of ERS refer to built-in DC isolators Data according to IEC60947-3(ed.3.2):2015,UL5081.Utilization category DC-PV1.				
			600V	800V	1000V	1200V	1500V
SRS13-2	1	2	32	26	13	10	5
SRS20-2	1	2	40	30	20	12	6
SRS25-2	1	2	55	40	25	15	8
SRS40-2	1	2	/	50	40	30	20
SRS50-2	1	2	/	55	50	40	30
SRS13-4	2	4	32	26	13	10	5
SRS20-4	2	4	40	30	20	12	6
SRS25-4	2	4	55	40	25	15	8
SRS40-4	2	4	/	50	40	30	20
SRS50-4	2	4	/	55	50	40	30
SRS13-4B	1	4	32	26	13	10	5
SRS20-4B	1	4	40	40	40	30	20
SRS25-4B	1	4	/	/	55	40	30
SRS40-4B	1	4	/	/	/	/	45
SRS50-4B	1	4	/	/	/	/	50

• **Wiring diagram**



• **Dimensions**





• **Main Speciality**

- Suitable for 3-string, 4-string, 5-string modules
- Maximum circuit current 55A
- Maximum circuit voltage 150Vdc
- CE certificated
- Sheet metal material, IP66 protection grade
- Multi clock interface type optional (knockout hole / gland / MC4 terminal)
- The Isolation switches are TUV.CE.CB.SAA certificated
- Waterproof Vent valve to avoid condensation inside the shell
- Advanced temperature sensor is used to detect the highest temperature in the shell in real time temperature, when the internal temperature exceeds 70 degrees, automatic cut-off switch
- It is suitable for residential, industrial and commercial photovoltaic system

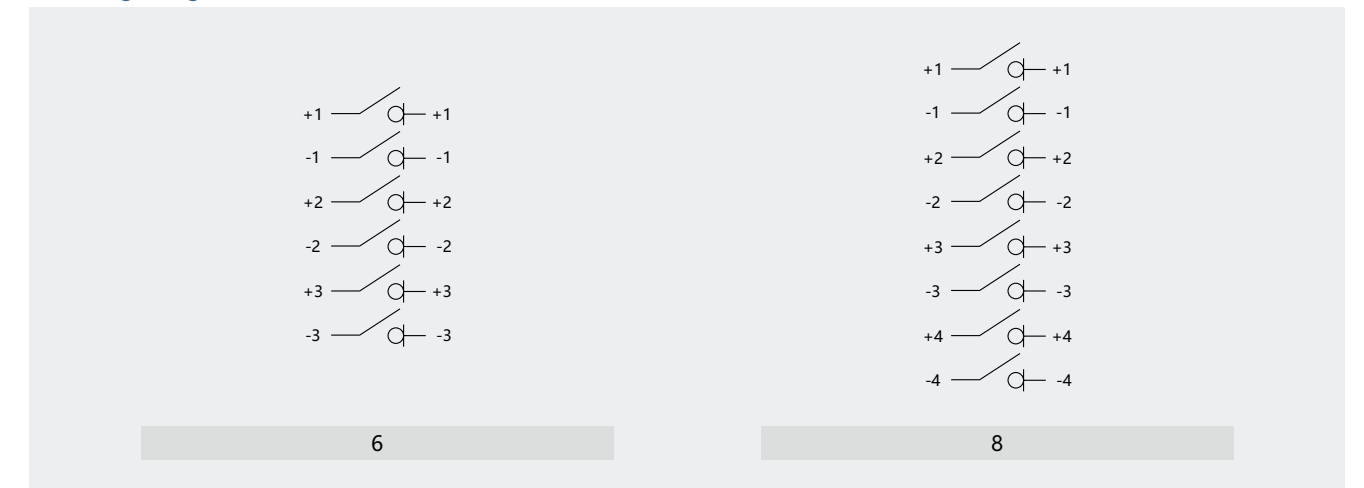
• **Specifications**

Standard	Data
Main parameter	SRS
String voltage (VDC)	300~1500
String current(A)	9~55
Circuit	3/4/5
Connection mode of Isolation switch	6/8
Working voltage	100Vac-270Vac
Rated voltage	230Vac
Rated current	30mA
Starting (loading) current	100mA(AVG)
Action current	300mA(Max)
Contact action condition	24Vdc-300mA(Max)
Operating temperature	-20° C±50° C
Maximum temperature before automatic shutdown	≥ 70° C
Storage temperature	-40° C±85C
Protection level	IP66
Over current protection	II
Authentication	CE
The DC isolation switch meets the standard	EN 60947-1&3
Mechanical life	10000
Number of loaded operations (PV1)	> 1500

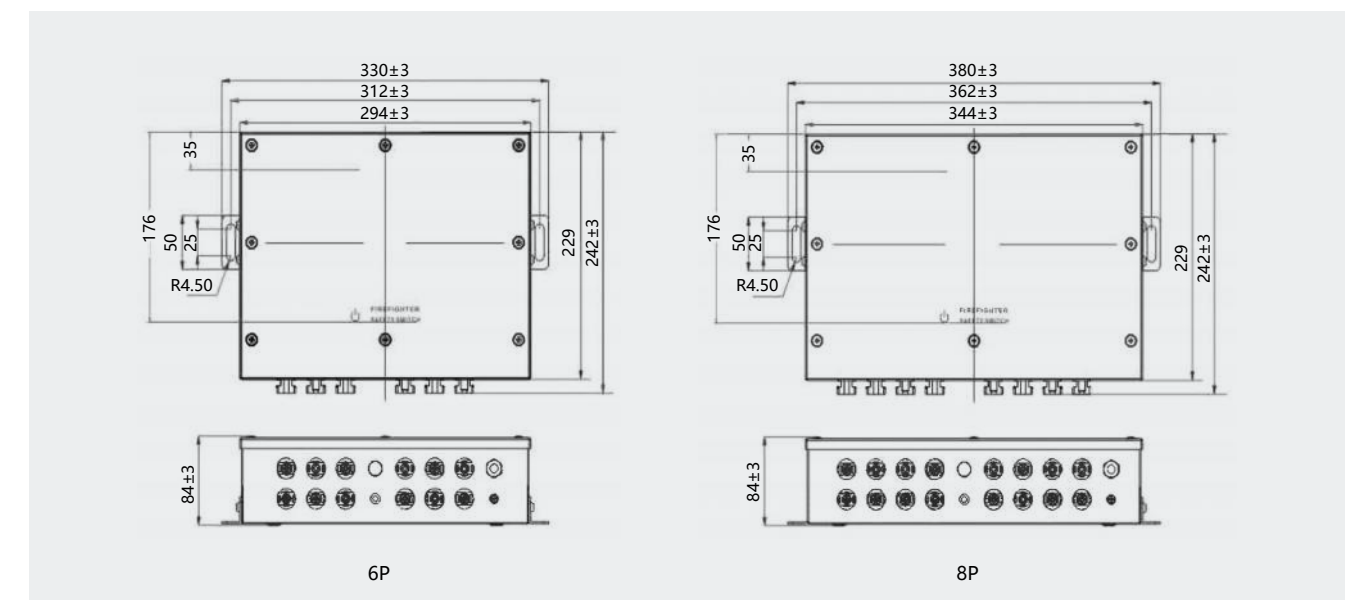
• **Specifications**

Model	Circuit	Pole number	Data of ERS refer to built-in DC isolators Data according to IEC60947-3(ed.3.2):2015,UL5081.Utilization category DC-PV1.				
			600V	800V	1000V	1200V	1500V
SRS13-6	3	6	32	26	13	10	5
SRS20-6	3	6	40	30	20	12	6
SRS25-6	3	6	55	40	25	15	8
SRS40-6	3	6	/	50	40	30	20
SRS50-6	3	6	/	55	50	40	30
SRS13-8	4	8	32	26	13	10	5
SRS20-8	4	8	40	30	20	12	6
SRS25-8	4	8	55	40	25	15	8
SRS40-8	4	8	/	50	40	30	20
SRS50-8	4	8	/	55	50	40	30

• **Wiring diagram**



• **Dimensions**





SHT



SHVB

• **Description**

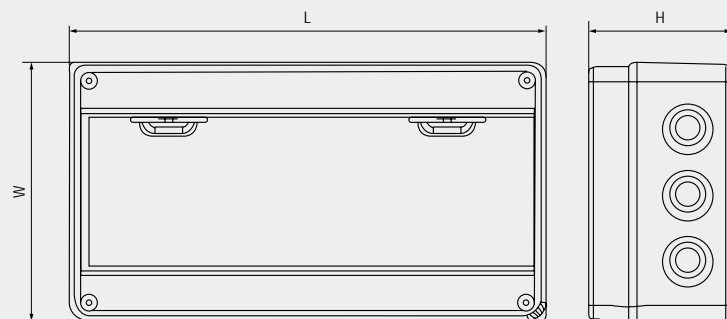
SHT/SHVB series distribution box use high-quality fire-resistant and ABS materials reach IP65 protection Degree the max current can be 125A. Can be used in outdoor environment to protect the heavy weather

• **Specifications**

Model No	Product Size	Product Weight
SHT-5WAY	120×160×95	0.34KG
SHT-8WAY	200×155×95	0.53KG
SHT-12WAY	250×195×110	0.84KG
SHT-15WAY	310×195×110	0.9KG
SHT-18WAY	365×195×110	1.07KG
SHT-24WAY	360×280×110	1.35KG

Model No	Product Size	
SHV-4WAY	107×212×82	
SHV-9WAY	165×200×100	
SHV-12WAY	219×200×100	
SHV-15WAY	273×230×110	
SHV-18WAY	381×230×110	
SHV-24WAY	273×380×110	
SHV-36WAY	381×380×110	2 Row

• **Dimensions**



• **MC4-A2546B-4 tool kits including**

- 1 PCS A-2546B terminal crimping pliers (crimping range: 2.5-6mm², included a locator)
- 1 PCS W X-0626 cable stripper (stripping range: 0.9-6mm²)
- One pair MC4 wrench, one pair MC4 connector
- MC3 and 30J head each pair

• **Main Speciality**

- The new PV Crimping Pliers precision pressure line module locking (self locking and releasing mechanism) and the overall design;
- In the the repeated pressure line to maintain a higher standard of quality pressure line;
- The excellent lever transmission design, isobar larger cross-section of the wire, the m ore labor-saving;
- Ergonomic design;
- The positioning device can be fixed in the jaw , to ensure precise positioning of the terminal of the pressure line;
- Pressure line film and locator under the pressure line terminal selected

Type	Capacity	AWG	Length	Weight
A-2546B(MC4)	2.5/4.0/6.0mm ²	14-10AWG	270mm	0.74kg
A-2546B-4(MC3)	2.5/4.0/6.0mm ²	14-10AWG	270mm	0.74kg
A-2546B-3	4.0/6.0mm ²	12-10AWG	270mm	0.74kg

• **MC4 Wrench**



- 100% Brand New and High Quality;
- This spanner is suitable for assembling and disassembling of MC4 male/female plug;
- Light weight, portable and easy to use;
- Double wrenches- quick screw down;
- Very light and very strong and smooth;
- Saved time and manpower for installation.