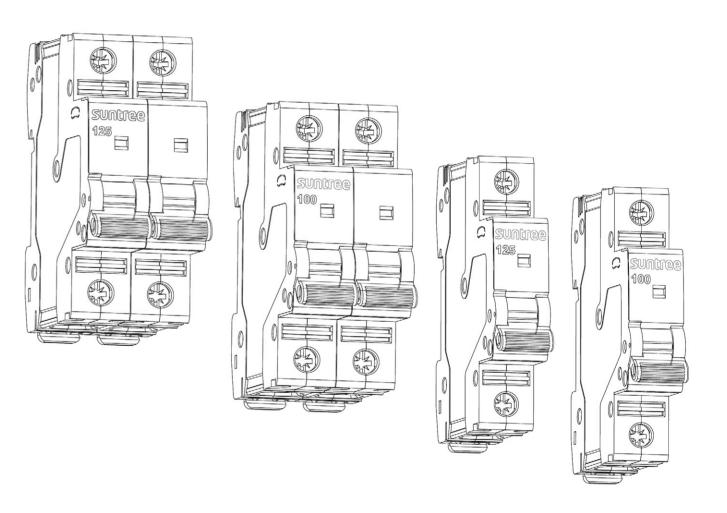


DC CIRCUIT BREAKER 80/100/125A



SOLAR ACCESSORIES MANUAL

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BRING THE SAFE ELECTRICITY TO THE ONES YOU LOVED







Small volume and large current, saving installation space



The rated current 125A miniature circuit breaker isonly 18mm wide, saving 30% space.

Strong environmental adaptability and reliableoperation in extreme environment



-5 C ~ 40 [™]C ambient temperature application range, to meetthe application needs of various occasions.

More reliable performance



Temperature rise \leq 50K, breaking capacity up to 6ka electricallife \geq 4000 times.

Lighter operation



125A product has lighter operation force and is easy to operate

Contact indication window with clear position



The whole series of contact positions are visualized to avoidmisoperation and more reliable use.





Application

SCB8-125DC series DC miniature circuit breaker (hereinafter referred to as circuitbreaker) is suitable for lines with rated current of 125A and below DC rated voltage of250V and 500V. It is used for overloading and short-circuit protection of facilities and electrical equipment of DC power distribution system, and can be widely used inelectric power, post and telecommunications, communication, industrial and miningenterprises and other industries. This product meets the requirements of GB14048.2.IEC60947-2

Model and Meaning

S	СВ	8	125	DC
↓ Company Code	↓ Circuit Breaker	↓ Design Number	↓ Frame size rated current(63,125)	↓ DC

Advantages

- · Protection functions: overload, short circuit
- Rated short circuit breaking capacity icu up to 6 ka
- Non-polarity, easy wiring
- Rated current in up to 125a
- Rated voltage ue up to 1000v
- Designed for pv, energy storage and other dc applications





Operating conditions

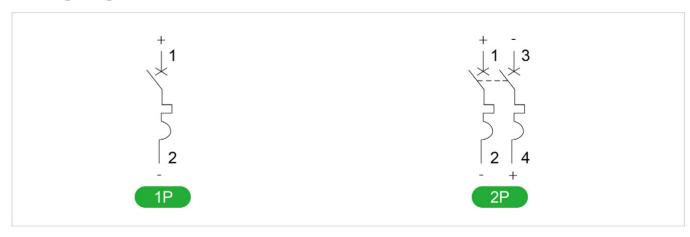
- The maximum ambient air temperature does not exceed +40 $^{\circ}$ C, minimum is not less than-5 $^{\circ}$ C and the average value does not exceed +35 $^{\circ}$ C
- The altitude of the installation site does not exceed 2000m
- The relative humidity of the atmosphere does not exceed 50% at the maximum ambient temperature of +40°C. Relative humidity at high temperatures can be relatively high
- The monthI1average maximum relative humidity of the wettest month is 90%, and the monthly average of themonth The minimum temperature is +25°C and takes into account condensation that occurs on the surface of the product due to temperature changes
- Pollution level is 2
- Installation categories are II, I11
- Use TH35-7.5 steel mounting rails for installation
- The inclination of the mounting surface and the vertical surface does not exceed 5°
- Screw the wire tight

Features

SCB8-125DC DC circuit breaker is composed of outer casing, operating mechanism,thermal release, electromagnetic tripping contact system, arc extinguishing system, etc. It has overload and short circuit protection functions,unique design structupowerful permanent magnet arc eixallifa of more than 20,000 times. The appearance capability of 10kA and a mechanical life of more than 20,000 times.

The appearance of the product is beautiful. The mounting rail is a TH35-7.5 standard steel mountingrail, and has the following features: the handle is designed on the front side of the front end, and the operation s santwirina the power supply goes in and out, in lineattention to the "+,-" polarity when wiring, the power supply goes in and out, in linewith the characteristics of the power supply line, easy to install, saves the wire.

Wiring diagram









Main techr	Main technical data						
Frame size	Pole	Rated voltage	Rated current	Rated ultimate short circuit capability		Lnstantaneous	
rated current				Breaking current	Breaking current	release current	
63	1	DC250V	1/2/3/4/5/6 10/16/20/25 32/40/50/63	60000	10	8ln-12ln	
125	1	DC250V	80 100 125	60000	10	8ln-12ln	



Main technical data							
Frame size	Pole	Rated	Rated current	Rated ultimate short circuit capability		Lnstantaneous	
rated current		voltage		Breaking current	Breaking current	release current	
63	2	DC550V	1/2/3/4/5/6 10/16/20/25 32/40/50/63	60000	10	8ln-12ln	
125	2	DC550V	80 100 125	60000	10	8ln-12ln	

Standard time-current						
Test	DC test current	Initial state	Time limit	Expected result	Result	
а	1.05ln	Cold state	t≤1h(ln≤63A) t≤2h(ln>63A)	No tripping		
b	1.3ln	Right after test number a	t<2h(ln>63A) t<1h(ln≤63A)	Tripping	The currentr ises steadily to the specified value within 5S	
С	8ln	Cold state	t≤0.2s	No tripping	Close the auxiliary switch to	
G	12ln	Cold state	t<0.2s	Tripping	turn onthe power	

