

<p><b>1. Application</b></p> <p>With the development of solar industry, the large solar power factory are developed better and faster. People have higher request about the capability of the equipment which is applied for controlling and circuit breaker and isolator switch are necessary, especially for the inverter protection. Then, it is a new requirement for the low voltage components. In this case, Suntime researched and developed a new SMS-250HPV series moulded case circuit breaker which is specializing in photovoltaic solar system.</p> <p>SMSHPV series specializing in PV solar moulded case circuit breaker (referred as circuit breaker as following) are using in DC power grid system, Ue 1000VDC, 1250VDC, 1500VDC, In 100A-630A. The circuit breaker are with the protection function of instantaneous short circuit and overload for solar PV system, protecting the system and components from the damage of over load and short circuit, etc.</p> <p>The circuit breaker are comply a standard as following: IEC 60947-1 &lt;Low Voltage switch component and Control equipment, the first part: General Rule&gt; IEC 60947-2 &lt;Low Voltage switch component and Control equipment, the second part: Circuit Breaker&gt;</p> <p><b>2. Normal Working Conditions</b></p> <p>2.1 Installation altitude under 2000meters high 2.2 Working temperature -5°C ~ +50°C (temperature over 50°C, please negotiate with supplier)</p>	<p>2.3 Air Condition: when the temperature is 40°C, the humidity of air should not over 50%, the lower temperature, higher humidity allowed, such as 20°C, 90% humidity allowed, but do not forget the water on the surface of product.</p> <p>2.4 Pollution Level: Level 4</p> <p>2.5 Installation Type: III</p> <p>2.6 Magnetic field of installation must be within 5 times of the earth magnetic in any direction.</p> <p>2.7 Installation in the medium without any explosion risk, without the air that can corrode the metal inside or cause damage to the insulation</p> <p>2.8 Without the erode for the wind and snow</p> <p>2.9 Installation Condition:</p> <p>A. Install in the horizontal and vertical direction B. The product should in the place where without obviously shock and assault</p> <p><b>3. Model Explain:</b></p> <p>Company Design AF-250 High voltage Specializing Pole: 2-2P Code Number AF-320 for Solar PV Black, 1P AF-400 Black, 1P AF-630 Black, 4P</p> <p>Accessories code: 1000 + 250A + DC1000V Serials: 3</p>	<table border="1"> <thead> <tr> <th>Accessories code</th> <th>1000</th> <th>250A</th> <th>DC1000V</th> </tr> </thead> <tbody> <tr> <td>Serials</td> <td>3</td> <td></td> <td></td> </tr> </tbody> </table> <p>Shunt release control voltage: DC24V/AC230V/AC400V</p> <p>4. Specifications and main technical parameters are shown in table.</p> <table border="1"> <thead> <tr> <th>Model</th> <th>SMS-250HPV-2</th> <th>SMS-250HPV</th> <th>SMS-250HPV</th> </tr> </thead> <tbody> <tr> <td>Rated current In(A)</td> <td>100, 125, 160, 225, 250</td> <td>100, 125, 140, 225, 250</td> <td>100, 125, 140, 160, 180, 200, 225, 250, 320</td> </tr> <tr> <td>Pole</td> <td>2</td> <td>2</td> <td>2-2P</td> </tr> <tr> <td>Rated insulation voltage U<sub>i</sub>(V)</td> <td>DC1500V</td> <td>DC1500V</td> <td>DC1000V</td> </tr> <tr> <td>Rated working voltage U<sub>e</sub>(V)</td> <td>DC1000V</td> <td>DC1200V, DC1300V</td> <td>DC1000V</td> </tr> <tr> <td>Airing distance (mm)</td> <td>80</td> <td>80</td> <td>80</td> </tr> <tr> <td>Rated line short</td> <td>DC100V 20kA (I<sub>cs</sub>=100kA)</td> <td>-</td> <td>20kA (I<sub>cs</sub>=100kA)</td> </tr> <tr> <td>Rated breaking capacity I<sub>cn</sub> (kA)</td> <td>DC120V 15kA (I<sub>cs</sub>=100kA)</td> <td>DC100V 20kA (I<sub>cs</sub>=100kA)</td> <td>15kA (I<sub>cs</sub>=100kA)</td> </tr> <tr> <td>Specialized protection tripping</td> <td>40</td> <td>40</td> <td>40</td> </tr> <tr> <td>Service life (Times)</td> <td>8000</td> <td>8000</td> <td>8000</td> </tr> </tbody> </table> <p>If there are any special requirements, please consult with the manufacturer.</p>	Accessories code	1000	250A	DC1000V	Serials	3			Model	SMS-250HPV-2	SMS-250HPV	SMS-250HPV	Rated current In(A)	100, 125, 160, 225, 250	100, 125, 140, 225, 250	100, 125, 140, 160, 180, 200, 225, 250, 320	Pole	2	2	2-2P	Rated insulation voltage U <sub>i</sub> (V)	DC1500V	DC1500V	DC1000V	Rated working voltage U <sub>e</sub> (V)	DC1000V	DC1200V, DC1300V	DC1000V	Airing distance (mm)	80	80	80	Rated line short	DC100V 20kA (I <sub>cs</sub> =100kA)	-	20kA (I <sub>cs</sub> =100kA)	Rated breaking capacity I <sub>cn</sub> (kA)	DC120V 15kA (I <sub>cs</sub> =100kA)	DC100V 20kA (I <sub>cs</sub> =100kA)	15kA (I <sub>cs</sub> =100kA)	Specialized protection tripping	40	40	40	Service life (Times)	8000	8000	8000	<table border="1"> <thead> <tr> <th>Model</th> <th>SMS-400HPV</th> <th>SMS-630HPV</th> </tr> </thead> <tbody> <tr> <td>Rated current In(A)</td> <td>320, 350, 400, 500, 630</td> <td>320, 350, 400, 500, 630</td> </tr> <tr> <td>Pole</td> <td>4</td> <td>4</td> </tr> <tr> <td>Rated insulation voltage U<sub>i</sub>(V)</td> <td>DC1500V</td> <td>DC1500V</td> </tr> <tr> <td>Rated working voltage U<sub>e</sub>(V)</td> <td>DC1000V - DC1500V</td> <td>DC1000V - DC1500V</td> </tr> <tr> <td>Airing distance (mm)</td> <td>100</td> <td>100</td> </tr> <tr> <td>Rated line short</td> <td>DC100V 20kA (I<sub>cs</sub>=100kA)</td> <td>20kA (I<sub>cs</sub>=100kA)</td> </tr> <tr> <td>Rated breaking capacity I<sub>cn</sub> (kA)</td> <td>DC120V 15kA (I<sub>cs</sub>=100kA)</td> <td>15kA (I<sub>cs</sub>=100kA)</td> </tr> <tr> <td>Specialized protection tripping</td> <td>40</td> <td>40</td> </tr> <tr> <td>Service life (Times)</td> <td>5000</td> <td>5000</td> </tr> </tbody> </table> <p>5. Ordering instructions:</p> <p>When ordering, please specify the moulded case circuit breaker number, name and rated current value, indicating quantity. Example: SMS-250HPV 200A 50PCS</p> <p>It means the order is 50pcs of DC 1500V 200A MCCB.</p> <p>6. Company commitment</p> <p>The user will observe the use, storage conditions and seal of the product. Under good conditions, within eighteen months from the date of production. If the product is damaged due to manufacturing quality problems, it may not be able to make it normal. The company is responsible for repairing or replacing it without compensation. Surpass warranty, the period is subject to paid repair. However, the damage caused by the following circumstances, even paid repairs during the warranty period:</p> <p>(1) improper use, maintenance and storage; (2) self-repairing and improper maintenance;</p>	Model	SMS-400HPV	SMS-630HPV	Rated current In(A)	320, 350, 400, 500, 630	320, 350, 400, 500, 630	Pole	4	4	Rated insulation voltage U <sub>i</sub> (V)	DC1500V	DC1500V	Rated working voltage U <sub>e</sub> (V)	DC1000V - DC1500V	DC1000V - DC1500V	Airing distance (mm)	100	100	Rated line short	DC100V 20kA (I <sub>cs</sub> =100kA)	20kA (I <sub>cs</sub> =100kA)	Rated breaking capacity I <sub>cn</sub> (kA)	DC120V 15kA (I <sub>cs</sub> =100kA)	15kA (I <sub>cs</sub> =100kA)	Specialized protection tripping	40	40	Service life (Times)	5000	5000	<p>Shape and installation dimensions 2P Dimension:</p>	<p>Accessories Installing</p>	<p>Shape and installation dimensions 3P Dimension:</p>	<p>Schematic diagram of guide rail installation</p>	<p>Schematic diagram of guide rail installation</p>
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