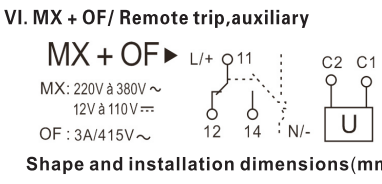
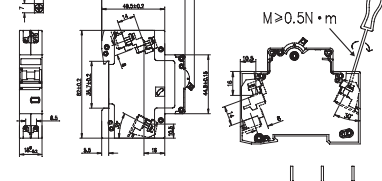
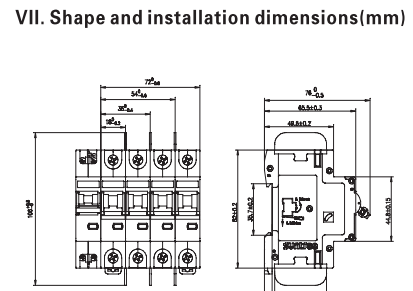
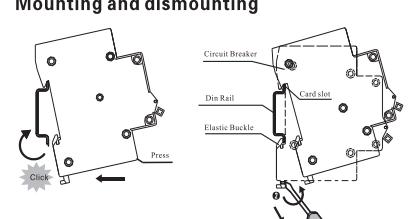
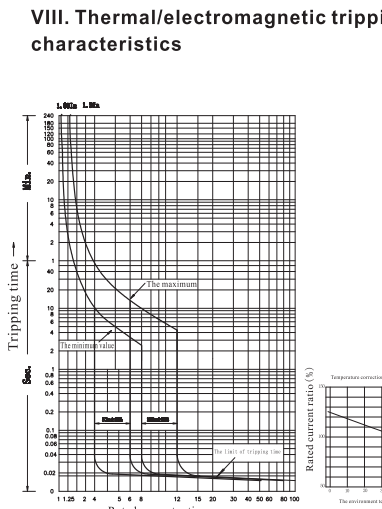


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IX.Wiring method G:1P(≤DC250V)、2P(≤DC550V)、3P(≤DC750V)、4P(≤DC1200V) H:1P(≤DC250V)、2P(≤DC550V)、3P(≤DC750V)、4P(≤DC1200V) 8	F:2P(≤DC800V)、3P(≤DC900V)、4P(≤DC1200V) 9	X.Safety precautions ⚠ Danger: Incorrect operation of this switch can result in death to personal 1) Please cut off the upper circuit breaker before installation or technical service to prevent electric shock or burn caused by short circuit. 2) Do not touch any live exposed joint to avoid electric shock. ⚠ Note: Incorrect operation of this switch can result in injury to personnel. 1) Please do not install the circuit breaker under the environment of vibration, high temperature humidity, dust, corrosive gas, excessive sway, etc., SO as to avoid causing fire and equipment failure 2) Please use the circuit breaker according to the rated current and rated voltage indicated on the nameplate, otherwise it will cause failure. 3) Please ensure that each screw terminal is torsion with a locking force of 2.0-2.3N.m. 10 <td data-bbox="1899 462 2427 987"> XI.Company commitment If the product is damaged or cannot be used normally due to manufacturing quality problems within 18 months from the date of production, the company shall repair or replace the product free of charge under the premise that the user complies with the conditions of use and storage and the seal of the product is intact.If the warranty period is over, the repair shall be paid for.Suntree shall not be liable for any damage caused by the following circumstances and shall make;paid repair seven within the warranty period: 1、 Improper use, maintenance and storage; 2、 Disassemble products for modification and improper maintenance; 3、 Damage occurred after;purchase due to falling and installation: 11 <td data-bbox="2427 462 2929 987"> Operating Manual for SL7N-63 Series DC Circuit Breaker SUNTREE ELECTRIC GROUP CO.,LTD Address: Xinguang Industrial Zone, Liushi Town, Yueqing City , Zhejiang,China TEL: 0086-577-62890205 FAX: 0086-577-62890578 12 <td data-bbox="2929 462 2959 987"> XC-SME20109A 13 </td></td></td>	XI.Company commitment If the product is damaged or cannot be used normally due to manufacturing quality problems within 18 months from the date of production, the company shall repair or replace the product free of charge under the premise that the user complies with the conditions of use and storage and the seal of the product is intact.If the warranty period is over, the repair shall be paid for.Suntree shall not be liable for any damage caused by the following circumstances and shall make;paid repair seven within the warranty period: 1、 Improper use, maintenance and storage; 2、 Disassemble products for modification and improper maintenance; 3、 Damage occurred after;purchase due to falling and installation: 11 <td data-bbox="2427 462 2929 987"> Operating Manual for SL7N-63 Series DC Circuit Breaker SUNTREE ELECTRIC GROUP CO.,LTD Address: Xinguang Industrial Zone, Liushi Town, Yueqing City , Zhejiang,China TEL: 0086-577-62890205 FAX: 0086-577-62890578 12 <td data-bbox="2929 462 2959 987"> XC-SME20109A 13 </td></td>	Operating Manual for SL7N-63 Series DC Circuit Breaker SUNTREE ELECTRIC GROUP CO.,LTD Address: Xinguang Industrial Zone, Liushi Town, Yueqing City , Zhejiang,China TEL: 0086-577-62890205 FAX: 0086-577-62890578 12 <td data-bbox="2929 462 2959 987"> XC-SME20109A 13 </td>	XC-SME20109A 13
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 I. Scope of application SL7N-63 series DC circuit breaker is a kind of current limiting circuit breakers, which is with overload and short circuit protection for DC power system of ≤DC800V (2P) and ≤DC1200V (4P). Widely used in DC screen, DC power distribution cabinet, DC combiner box, photovoltaic and wind power station distribution box systems, communication distribution box protection system. And normally, it can be used as on-off switch for less frequently operation electric circuit. II. Model description S L 7N-63 /□/□/□ Current Voltage Pole number Frame size rated current Design No. Circuit breaker Enterprise code III. Normal service conditions (1) Ambient air temperature should be within -5℃~+40℃, average value within 24h should not exceed +35℃; 1	 (2)Altitude of the installation site should not exceed 2000m; (3)Air relative humidity should not exceed 50% at +40℃, higher relative humidity is allowable at lower temperature condition, for example 90% at 20℃. Please take special measures for the dew caused by the temperature change occasionally, for example install a protective cover and so on; (4)The installation position should be vertical, obliquity of each side should not be over 10°; (5)Installation sites should be free from impact, vibration, rain or snow attack; (6)Class of pollution: class 2; (7)Installation class: CAT II or III; (8)Ingress protection: IP20 (IP40 when it is installed in distribution box, distribution cubicle or cabinet). IV. Basic parameters (1)Pole number: 1P,2P,3P, 4P; (2)Rated current In(A): 6, 10, 16, 20, 25, 32, 40, 50, 63; (3) Rated insulation voltage Ui(V):DC1250V; (4)1P(DC15V,24V,48V,60V,100V,180V,250V); 2P(DC24V,48V,125V,375V,500V,550V,600V, 800V); 3P(DC750V,900V);4P(DC1000V,1200V) 2	 (5)Rated ultimate short-circuit breaking capacity Ics=Icu=6kA;2kA(for 2P 800V);2kA(for 4P 1200V); (6)Utilization Category: A; (7)See table 1 for over-current tripping characteristics. Table 1 Current operating characteristics <table> <tr> <th>No.</th> <th>Name of test current</th> <th>Rated current In(A)</th> <th>Initial state</th> <th>Test current (A)</th> <th>Set time (t)</th> <th>Expected result</th> <th>Remark</th> </tr> <tr> <td>1</td> <td>Conventional non-tripping current</td> <td>≤63</td> <td>Cold state</td> <td>1.05In</td> <td>t≥1h</td> <td>Non-trip</td> <td></td> </tr> <tr> <td>2</td> <td>Conventional tripping current</td> <td>≤63</td> <td>Thermal state</td> <td>1.30In</td> <td>t<1h</td> <td>Trip</td> <td>Start immediately follow the last test</td> </tr> </table> Note: The instantaneous action feature of the circuit breaker is set to 10In±20%,t=In;t1=10In(C-type),5In(B-type). V.Installation and debugging Before installation: (1) Check whether the technical parameters on nameplate meet the requirements; (2) Switch on and off the DC circuit breaker for several times to check whether its operation mechanism has catching phenomenon, and whether the mechanism action is reliable. During installation: (1) Use a screwdriver with diameter of 6mm to install the breaker, the torque value is shown in Table 2; (2) Cross-sectional area of recommended wire and rated current of the release should be matched to ensure that the circuit breaker is working properly. Table 2 Rated current and sectional area of connecting wire <table> <tr> <th>Rated current (A)</th> <th>1, 2, 3, 4, 5, 6</th> <th>10</th> <th>16, 20</th> <th>25</th> <th>32</th> <th>40, 50</th> <th>63</th> </tr> <tr> <th>Sectional area of wire (m2)</th> <td>1</td> <td>1.5</td> <td>2.5</td> <td>4</td> <td>6</td> <td>10</td> <td>16</td> </tr> </table> Tightening torque of connecting wire (N.m) Both the power side and load side are 2.0~2.3 N.m Tips Keep the flaps in place M:2.0~2.3N.m Every arc plate Tips After working normally for a week, check the calbe connection and twist it again, and keep the tightening force at 2.0-2.3N.m 3 4	No.	Name of test current	Rated current In(A)	Initial state	Test current (A)	Set time (t)	Expected result	Remark	1	Conventional non-tripping current	≤63	Cold state	1.05In	t≥1h	Non-trip		2	Conventional tripping current	≤63	Thermal state	1.30In	t<1h	Trip	Start immediately follow the last test	Rated current (A)	1, 2, 3, 4, 5, 6	10	16, 20	25	32	40, 50	63	Sectional area of wire (m2)	1	1.5	2.5	4	6	10	16	 VI. MX + OF/ Remote trip,auxiliary MX + OF ▶ MX: 220V a 380V ~ 12V a 110V ~ OF : 3A/415V ~ Shape and installation dimensions(mm)   M≥0.5N·m 5	 VII. Shape and installation dimensions(mm)  Mounting and dismounting  6	 VIII. Thermal/electromagnetic tripping characteristics  Tripping time → Sec. Rated current ratio Thermal tripping Electromagnetic tripping Separate connection The ambient temperature (℃) 7
No.	Name of test current	Rated current In(A)	Initial state	Test current (A)	Set time (t)	Expected result	Remark																																						
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