

<p>HDB3wP Miniature circuit breaker <i>The Right Choice!</i></p> <p>Safety Notice</p> <p>Make sure to read this manual carefully before installation, operation, maintenance and inspection, and correctly install and use this product according to the manual.</p> <p>Danger:</p> <ul style="list-style-type: none"> Do not operate circuit breakers with wet hands; Never touch the conductive parts in use; Make sure that the product is electrically neutral during maintenance and care; Do not test the product by means of short circuit; <p>Attention:</p> <ul style="list-style-type: none"> The installation, repair and maintenance shall be implemented by qualified persons; Various characteristics of the product have been set when delivery and the product cannot be disassembled or modified at will; Confirm whether the rated voltage, rated current, frequency and characteristics of the product are correct; To prevent interphase short circuit, the bare wire or copper busbar at the terminal shall be insulated; Stop using the product if it appears immediately in case of any damage or abnormal sound during unpacking; Make waste treatment for product scrap. Thank you for your cooperation; <p>Learn about HDB3wP Miniature Circuit Breaker</p> <p>Panel Introduction:</p> <p>Note: 1 Power supply terminal 2 Company trademark 3 Product model 4 Current setting (tripping current) 5 Frequency and rated voltage 6 Breaking capacity 7 Load end. 8 Wiring diagram 9 Closing and opening indication 10 N-pole instruction</p> <p>Conditions of Normal Use Installation and Transportation</p> <p>Conditions of normal use and installation</p> <ul style="list-style-type: none"> The ambient air temperature shall be between -20°C and +60°C and the average temperature in 24 hours shall not exceed +35°C; Altitude: <2000m; The ambient relative humidity does not exceed 50% when the ambient temperature is +40°C. Higher relative humidity is allowed under lower temperature, e.g. up to 90% at +20°C. Protective measures shall be taken for protection against condensation due to temperature change; The magnetic field near the installation site of the circuit breaker shall not exceed 5 times of the earth's magnetic field in any direction; Installation shall be made in media free of explosion danger, gas and dust that may rust metal or damage insulation; Installation shall be made in places free from obvious shock and vibration, or rain and snow; Pollution degree: II; Installation shall be made in distribution box, distribution cabinet or box; Inverted wiring is prohibited for the product; The terminal must be connected to the pole with identification of N. <p>Conditions of normal storage and transportation</p> <ul style="list-style-type: none"> The temperature shall be between -40°C and +70°C; The relative humidity (at 25°C) shall not exceed 95%; The product shall be transported gently without upside down or strong collision. <p>Table 1 Main technical parameters</p> <table border="1"> <thead> <tr> <th>Tripping type</th> <th>Rated current In A</th> <th>Test current I_t in A</th> <th>Initial State</th> <th>Test time</th> <th>Expected result</th> <th>Remark</th> <th>Reference temperature</th> </tr> </thead> <tbody> <tr> <td>C/D</td> <td><63</td> <td>1.15n</td> <td>Cold</td> <td>—</td> <td>No tripping</td> <td>—</td> <td>—</td> </tr> <tr> <td>C/D</td> <td><63</td> <td>1.45n</td> <td>—</td> <td><1 h</td> <td>Tripping</td> <td>Current increases to 1.45 times the rated value in 5s</td> <td>—</td> </tr> <tr> <td>C/D</td> <td><32A</td> <td>2.55n</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>C/D</td> <td>>32A</td> <td>—</td> <td>Cold</td> <td>T_s < 1 < 60s</td> <td>Tripping</td> <td>—</td> <td>—</td> </tr> <tr> <td>C</td> <td>5n</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>>30°C</td> </tr> <tr> <td>D</td> <td>10n</td> <td>—</td> <td>Cold</td> <td>1<0.1s</td> <td>Tripping</td> <td>Closing auxiliary switch connected to power supply</td> <td>—</td> </tr> <tr> <td>C</td> <td>10n</td> <td>—</td> <td>Cold</td> <td>1<0.1s</td> <td>Tripping</td> <td>Closing auxiliary switch connected to power supply</td> <td>—</td> </tr> <tr> <td>D</td> <td>14n</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table> <p>Figure 1: C type tripping curve</p> <p>Figure 2: D type tripping curve</p> <p>Table 2 Overcurrent protection characteristics of the circuit breaker</p> <p>Table 3 Rated current and sectional area of connecting conductor</p> <table border="1"> <thead> <tr> <th>Rated current A</th> <th>6</th> <th>10</th> <th>16</th> <th>20</th> <th>25</th> <th>32</th> <th>40</th> </tr> </thead> <tbody> <tr> <td>Sectional area of conductor mm²</td> <td>1</td> <td>1.5</td> <td>2.5</td> <td>4</td> <td>6</td> <td>10</td> <td>10</td> </tr> </tbody> </table> <p>Wire tightening torque</p> <p>The torque at the incoming terminal and connection point is 10 N·m.</p> <p>Table 4 Rated current temperature correction coefficient table</p> <table border="1"> <thead> <tr> <th>Rated current (A)</th> <th>-20</th> <th>-10</th> <th>0</th> <th>10</th> <th>20</th> <th>30</th> <th>40</th> <th>50</th> <th>60</th> </tr> </thead> <tbody> <tr> <td>Temperature (°C)</td> <td>6.39</td> <td>12.54</td> <td>18.65</td> <td>24.74</td> <td>30.83</td> <td>36.92</td> <td>42.95</td> <td>48.97</td> <td>54.99</td> </tr> <tr> <td>6</td> <td>9.26</td> <td>8.45</td> <td>7.59</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>10</td> <td>19.77</td> <td>19.07</td> <td>18.35</td> <td>17.63</td> <td>16.82</td> <td>16.13</td> <td>15.42</td> <td>14.72</td> <td>14.02</td> </tr> <tr> <td>16</td> <td>24.49</td> <td>23.66</td> <td>22.80</td> <td>21.91</td> <td>20.96</td> <td>20</td> <td>18.97</td> <td>17.89</td> <td>16.73</td> </tr> <tr> <td>20</td> <td>30.72</td> <td>29.67</td> <td>28.57</td> <td>27.43</td> <td>26.24</td> <td>25</td> <td>23.69</td> <td>22.30</td> <td>20.82</td> </tr> <tr> <td>25</td> <td>39.19</td> <td>37.86</td> <td>36.49</td> <td>35.05</td> <td>33.56</td> <td>32</td> <td>30.36</td> <td>28.62</td> <td>26.77</td> </tr> <tr> <td>32</td> <td>49.24</td> <td>47.54</td> <td>45.77</td> <td>43.93</td> <td>42.01</td> <td>40</td> <td>37.88</td> <td>35.64</td> <td>33.24</td> </tr> </tbody> </table> <p>Table 5 Maintenance and care</p> <p>• Mechanical life: 15000 times; • Electrical life: 10000 times; • Rated impulse withstand voltage (Uiimp): 4kV</p> <p>Overall and Installation Dimensions</p> <p>The circuit breaker adopts DIN-rail installation. See figure 3 for its overall and installation dimensions.</p> <p>Unpacking Inspection</p> <p>After unpacking, the user must check whether the product is intact, whether the exposed metal piece is rusty and whether the product is deformed due to transport or storage. In case of above phenomena, do not use the product and timely contact the supplier.</p> <p>Table 6 Overall and installation dimensions</p> <table border="1"> <thead> <tr> <th>Item</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>Appearance</td> <td>Free of dust or condensation. Clean, if any. No deformation.</td> </tr> <tr> <td>Terminal connection</td> <td>No dislocation at the shell or connecting terminal. 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10	19.77	19.07	18.35	17.63	16.82	16.13	15.42	14.72	14.02																																																																																																																																																																																																																																																																																																																																																																																																																																																						
16	24.49	23.66	22.80	21.91	20.96	20	18.97	17.89	16.73																																																																																																																																																																																																																																																																																																																																																																																																																																																						
20	30.72	29.67	28.57	27.43	26.24	25	23.69	22.30	20.82																																																																																																																																																																																																																																																																																																																																																																																																																																																						
25	39.19	37.86	36.49	35.05	33.56	32	30.36	28.62	26.77																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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