





**THE DATASHEET OF
BM10NB(0.8)-24DS-0.4V(51)**







| APPLICABLE STANDARD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------------|--|---|---|----------------|------------|------------|-------------------------|--------------------------|------------------------|--|--|----|------|-----|----|------|-----|----|------|-----|----|------|-----|----|------|-----|----|------|-----|----|------|-----|----|------|-----|
| RATING | OPERATING TEMPERATURE RANGE | -35°C TO +85°C (NOTES 1) | STORAGE TEMPERATURE RANGE | -10°C TO +60°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | VOLTAGE | 30V AC | APPLICABLE CONNECTOR | BM10*(0.8)-*DP-0.4V (**) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CURRENT | 0.3A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPECIFICATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM | | TEST METHOD | | REQUIREMENTS | QT | AT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONSTRUCTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL EXAMINATION | | CONFIRMED VISUALLY AND BY MEASURING INSTRUMENT. | | ACCORDING TO DRAWING. | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MARKING | | CONFIRMED VISUALLY. | | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ELECTRIC CHARACTERISTICS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONTACT RESISTANCE | | 20mV AC OR LESS 1kHz, 1mA. | | 100mΩ MAX. | X | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INSULATION RESISTANCE | | 100V DC. | | 50MΩ MIN. | X | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VOLTAGE PROOF | | 100V AC FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | X | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MECHANICAL CHARACTERISTICS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| △ | INSERTION AND WITHDRAWAL FORCES | | MEASURED BY APPLICABLE CONNECTOR. | | X | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | <table border="1"> <thead> <tr> <th>PIN COUNTS</th> <th>INSERTION FORCE (N MAX)</th> <th>WITHDRAWAL FORCE (N MIN)</th> </tr> </thead> <tbody> <tr> <td>BM10*(0.8)-*DS/DP-0.4V</td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>15.4</td> <td>2.6</td> </tr> <tr> <td>16</td> <td>20.7</td> <td>3.6</td> </tr> <tr> <td>20</td> <td>24.3</td> <td>4.4</td> </tr> <tr> <td>24</td> <td>27.8</td> <td>5.1</td> </tr> <tr> <td>30</td> <td>33.1</td> <td>6.2</td> </tr> <tr> <td>34</td> <td>36.6</td> <td>6.9</td> </tr> <tr> <td>40</td> <td>41.9</td> <td>8.0</td> </tr> <tr> <td>50</td> <td>50.7</td> <td>9.8</td> </tr> <tr> <td>60</td> <td>59.5</td> <td>11.7</td> </tr> </tbody> </table> | | | | PIN COUNTS | INSERTION FORCE (N MAX) | WITHDRAWAL FORCE (N MIN) | BM10*(0.8)-*DS/DP-0.4V | | | 10 | 15.4 | 2.6 | 16 | 20.7 | 3.6 | 20 | 24.3 | 4.4 | 24 | 27.8 | 5.1 | 30 | 33.1 | 6.2 | 34 | 36.6 | 6.9 | 40 | 41.9 | 8.0 | 50 | 50.7 | 9.8 |
| PIN COUNTS | INSERTION FORCE (N MAX) | WITHDRAWAL FORCE (N MIN) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BM10*(0.8)-*DS/DP-0.4V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 15.4 | 2.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 20.7 | 3.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 24.3 | 4.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 27.8 | 5.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 33.1 | 6.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | 36.6 | 6.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 50 | 50.7 | 9.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 59.5 | 11.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MECHANICAL OPERATION | | 10TIMES INSERTIONS AND WITHDRAWAL. | | ① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VIBRATION | | FREQUENCY 10 TO 55 TO 10 Hz, APPROX 5min, SINGLE AMPLITUDE 0.75 mm, 10CYCLES, FOR 3 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHOCK | | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE -55 → +85 °C TIME 30 → 30 min UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER: WITHIN 2 ~3 MIN) | | ① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 50MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. | | ① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 25MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SULPHUR DIOXIDE | | EXPOSED IN 25 PPM FOR 96h, 25°C, 75%. (REFER TO JIS C 60068) | | ① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| △ | 1 | DIS-H-003833 | NY. YAMASHIRO | TS. MIYAZAKI | 09. 04. 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REMARKS | | | | APPROVED | KH. IKEDA | 08. 04. 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT | | | | CHECKED | KY. MIDORIKAWA | 08. 04. 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512 | | | | DESIGNED | TH. ARAI | 08. 04. 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | DRAWN | SH. HOSODA | 08. 04. 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-318423-01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HRS | SPECIFICATION SHEET | | PART NO. | BM10NB (0.8)-*DS-0.4V (51) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL684-****-*-51 | | △ 1/1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View BM10NB\(0.8\)-24DS-0.4V\(51\) on WIN SOURCE](#)
-  [Hirose Electric Co Ltd Information](#)

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-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management