

| 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*(0.6)-*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                                     |  |                          |   |                            |          |
| MECHANICAL OPERATION   | 10TIMES INSERTIONS AND EXTRACTIONS.  |                          | ① CONTACT RESISTANCE: 100mΩ MAX.<br>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.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                 | X                          | -        |
| SHOCK  | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.  |                          | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                 | X                          | -        |
| ENVIRONMENTAL CHARACTERISTICS                                  |  |                          |   |                            |          |
| RAPID CHANGE OF TEMPERATURE                                    | TEMPERATURE -55 → +85 °C<br>TIME 30 → 30 min<br>UNDER 5 CYCLES.<br>(RELOCATION TIME TO CHAMBER: WITHIN 2 ~3 MIN) |                          | ① CONTACT RESISTANCE: 100mΩ MAX.<br>② INSULATION RESISTANCE: 50MΩ MIN.<br>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.<br>② INSULATION RESISTANCE: 25MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X                          | -        |
| SULPHUR DIOXIDE  | EXPOSED IN 25 PPM FOR 96h, 25°C, 75%.<br>(REFER TO JIS C 60068)  |                          | ① CONTACT RESISTANCE: 100mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                       | X                          | -        |
| △  |  |                          |   |                            |          |
|  | COUNT  | DESCRIPTION OF REVISIONS | DESIGNED  | CHECKED                    | DATE     |
|  | 1  | DIS-H-004093             | YH. MICHIDA   | KY. MIDORIKAWA             | 09.08.07 |
| REMARKS  |  |                          | APPROVED  | KH. IKEDA                  | 08.07.16 |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT               |  |                          | CHECKED   | KY. MIDORIKAWA             | 08.07.16 |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512  |  |                          | DESIGNED  | YH. MICHIDA                | 08.07.16 |
|  |  |                          | DRAWN   | YH. MICHIDA                | 08.07.16 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |  |                          | DRAWING NO.   | ELC4-318409-02             |          |
| <b>HRS</b>   | SPECIFICATION SHEET  |                          | PART NO.  | BM10NB (0.6)-*DS-0.4V (51) |          |
|  | HIROSE ELECTRIC CO., LTD.  |                          | CODE NO.  | CL684                      | △ 1/1    |