

| APPLICABLE STANDARD  |   |                          |   |                            |                |            |     |
|--|---|--------------------------|---|----------------------------|----------------|------------|-----|
| RATING   | OPERATING TEMPERATURE RANGE   | -35°C TO 85°C (NOTE 1)   | STORAGE TEMPERATURE RANGE   | -10°C TO 60°C              |                |            |     |
|  | VOLTAGE   | 30V AC/DC                | APPLICABLE CONNECTOR  | BM20*(0.6)-40DS-0.4V(**)   |                |            |     |
|  | CURRENT   | 0.3A                     |   |                            |                |            |     |
| SPECIFICATIONS   |   |                          |   |                            |                |            |     |
| ITEM   | TEST METHOD   |                          | REQUIREMENTS  |                            |                | QT         | AT  |
| CONSTRUCTION   |   |                          |   |                            |                |            |     |
| GENERAL EXAMINATION  | VISUALLY AND BY MEASURING INSTRUMENT.   |                          | ACCORDING TO DRAWING.   |                            |                | X          | X   |
| MARKING  | CONFIRMED VISUALLY.   |                          |   |                            |                | X          | X   |
| ELECTRIC CHARACTERISTICS                                       |   |                          |   |                            |                |            |     |
| CONTACT RESISTANCE   | 20mV AC OR LESS 1kHz, 1m A .  |                          | 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   | 10 TIMES 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 CHANBER : 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 EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.             |                            |                | X          | —   |
|  |   |                          |   |                            |                |            |     |
|  | COUNT   | DESCRIPTION OF REVISIONS | DESIGNED  | CHECKED                    | DATE           |            |     |
|  |   |                          |   |                            |                |            |     |
| REMARKS  |   |                          |   | APPROVED                   | KH. IKEDA      | 13. 07. 11 |     |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT               |   |                          |   | CHECKED                    | WR. FUKUCHI    | 13. 07. 11 |     |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512. |   |                          |   | DESIGNED                   | RT. SHIMIZU    | 13. 07. 10 |     |
|  |   |                          |   | DRAWN                      | Hongwoo. Jo    | 13. 07. 09 |     |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |   |                          | DRAWING NO.   |                            | ELC4-347092-01 |            |     |
|  | SPECIFICATION SHEET   |                          | PART NO.  | BM20B (0.6)-40DP-0.4V (51) |                |            |     |
|  | HIROSE ELECTRIC CO., LTD.   |                          | CODE NO.  | CL684-9305-0-51            |                |            | 1/1 |