

|                                                                |                             |                                                                                                                |                           |                                                                                                                                                                                  |                   |
|----------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| APPLICABLE STANDARD                                            |                             |                                                                                                                |                           |                                                                                                                                                                                  |                   |
| RATING                                                         | OPERATING TEMPERATURE RANGE | $\triangle_2$ -55℃ TO 85℃ (NOTE 1)                                                                             | STORAGE TEMPERATURE RANGE | -10℃ TO 60℃                                                                                                                                                                      |                   |
|                                                                | VOLTAGE                     | $\triangle_2$ 50V AC/DC                                                                                        | APPLICABLE CONNECTOR      | BM28B0. 6-20DS/2-0. 35V                                                                                                                                                          |                   |
|                                                                | CURRENT                     | SIGNAL CONTACT : 0. 3A<br>POWER CONTACT : 5. 0A                                                                |                           |                                                                                                                                                                                  |                   |
| 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 .                                                                                    |                           | Signal contact resistance: 70 mΩ MAX. $\triangle_2$<br>Power contact resistance: 15 mΩ MAX.                                                                                      | X -               |
| INSULATION RESISTANCE                                          |                             | 100V DC.                                                                                                       |                           | 50MΩ MIN.                                                                                                                                                                        | X -               |
| VOLTAGE PROOF                                                  |                             | 150V AC FOR 1 min. $\triangle_2$                                                                               |                           | NO FLASHOVER OR BREAKDOWN.                                                                                                                                                       | X -               |
| MECHANICAL CHARACTERISTICS                                     |                             |                                                                                                                |                           |                                                                                                                                                                                  |                   |
| MECHANICAL OPERATION                                           |                             | 10TIMES INSERTIONS AND EXTRACTIONS.                                                                            |                           | ① Signal contact resistance: 70 mΩ MAX. $\triangle_2$<br>Power contact resistance: 15 mΩ 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℃<br>TIME 30 → 30 min<br>UNDER 5 CYCLES.<br>(RELOCATION TIME TO CHANBER : WITHIN 2-3 min) |                           | ① Signal contact resistance: 70 mΩ MAX. $\triangle_2$<br>Power contact resistance: 15 mΩ 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 Signal contact resistance: 70 mΩ MAX. $\triangle_2$<br>Power contact resistance: 15 mΩ 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℃,75%.<br>(REFER TO JIS C 60068)                                                   |                           | ① Signal contact resistance: 70 mΩ MAX. $\triangle_2$<br>Power contact resistance: 15 mΩ MAX.                                                                                    | X -               |
|                                                                |                             |                                                                                                                |                           |                                                                                                                                                                                  |                   |
|                                                                | COUNT                       | DESCRIPTION OF REVISIONS                                                                                       | DESIGNED                  | CHECKED                                                                                                                                                                          | DATE              |
| $\triangle_2$                                                  | 8                           | DIS-H-00019757                                                                                                 | ST. HIRONAKA              | RT. SHIMIZU                                                                                                                                                                      | 20240125          |
| REMARKS                                                        |                             |                                                                                                                | APPROVED                  | MO. ISHIDA                                                                                                                                                                       | 20151211          |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT               |                             |                                                                                                                | CHECKED                   | TS. MIYAZAKI                                                                                                                                                                     | 20151210          |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512. |                             |                                                                                                                | DESIGNED                  | RT. SHIMIZU                                                                                                                                                                      | 20151210          |
|                                                                |                             |                                                                                                                | DRAWN                     | RT. SHIMIZU                                                                                                                                                                      | 20151210          |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |                             |                                                                                                                | DRAWING NO.               |                                                                                                                                                                                  | ELC-365211-51-01  |
| HRS                                                            | SPECIFICATION SHEET         |                                                                                                                | PART NO.                  | BM28B0. 6-20DP/2-0. 35V (51)                                                                                                                                                     |                   |
|                                                                | HIROSE ELECTRIC CO., LTD.   |                                                                                                                | CODE NO.                  | CL0673-5039-0-51                                                                                                                                                                 | $\triangle_2$ 1/1 |