

|                                                                |                             |                                                                                                                 |                                                                                                                                                                     |                              |             |
|----------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------|
| APPLICABLE STANDARD                                            |                             |                                                                                                                 |                                                                                                                                                                     |                              |             |
| RATING                                                         | OPERATING TEMPERATURE RANGE | -40°C TO 85°C (NOTE 1)                                                                                          | STORAGE TEMPERATURE RANGE                                                                                                                                           | -10°C TO 60°C                |             |
|                                                                | VOLTAGE                     | 30V AC/DC                                                                                                       | APPLICABLE CONNECTOR                                                                                                                                                | BM28B0. 6-50DP/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: 100 mΩ MAX.<br>Power contact resistance: 30 mΩ 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 Signal contact resistance: 100 mΩ MAX.<br>Power contact resistance: 30 mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                       | X                            | —           |
| VIBRATION                                                      |                             | FREQUENCY 10 TO 55 TO 10 Hz, APPROX 5min,<br>SINGLE AMPLITUDE 0.75 mm, 10CYCLES,<br>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<br>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 Signal contact resistance: 100 mΩ MAX.<br>Power contact resistance: 30 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: 100 mΩ MAX.<br>Power contact resistance: 30 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°C, 75%.<br>(REFER TO JIS C 60068)                                                 | ① Signal contact resistance: 100 mΩ MAX.<br>Power contact resistance: 30 mΩ MAX.                                                                                    | X                            | —           |
|                                                                |                             |                                                                                                                 |                                                                                                                                                                     |                              |             |
|                                                                | COUNT                       | DESCRIPTION OF REVISIONS                                                                                        | DESIGNED                                                                                                                                                            | CHECKED                      | DATE        |
| ⚠                                                              |                             |                                                                                                                 |                                                                                                                                                                     |                              |             |
| REMARKS                                                        |                             |                                                                                                                 | APPROVED                                                                                                                                                            | MO. ISHIDA                   | 17. 09. 14  |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT               |                             |                                                                                                                 | CHECKED                                                                                                                                                             | TS. MIYAZAKI                 | 17. 09. 14  |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512. |                             |                                                                                                                 | DESIGNED                                                                                                                                                            | RT. SHIMIZU                  | 17. 09. 14  |
|                                                                |                             |                                                                                                                 | DRAWN                                                                                                                                                               | RT. SHIMIZU                  | 17. 09. 14  |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |                             |                                                                                                                 | DRAWING NO.                                                                                                                                                         |                              | SLC4-632253 |
| HRS                                                            | SPECIFICATION SHEET         |                                                                                                                 | PART NO.                                                                                                                                                            | BM28B0. 6-50DS/2-0. 35V (51) |             |
|                                                                | HIROSE ELECTRIC CO., LTD.   |                                                                                                                 | CODE NO.                                                                                                                                                            | CL6650-0004-7-051            | ⚠ 1/1       |