

|                                                                |                                                                                                                                         |                                                 |                                                                                                                                                                                                                    |                              |                  |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|
| APPLICABLE STANDARD                                            |                                                                                                                                         |                                                 |                                                                                                                                                                                                                    |                              |                  |
| RATING                                                         | OPERATING TEMPERATURE RANGE                                                                                                             | $\triangle$ -55°C TO 85°C (NOTE 1)              | STORAGE TEMPERATURE RANGE                                                                                                                                                                                          | -10°C TO 60°C                |                  |
|                                                                | VOLTAGE                                                                                                                                 | $\triangle$ 50V AC/DC                           | APPLICABLE CONNECTOR                                                                                                                                                                                               | BM28B0. 6-24DS/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 m $\Omega$ MAX. $\triangle$<br>Power contact resistance: 15 m $\Omega$ MAX. $\triangle$                                                                                              |                              | X -              |
| INSULATION RESISTANCE                                          | 100V DC.                                                                                                                                |                                                 | 50M $\Omega$ MIN.                                                                                                                                                                                                  |                              | X -              |
| VOLTAGE PROOF                                                  | 150V AC FOR 1 min. $\triangle$                                                                                                          |                                                 | NO FLASHOVER OR BREAKDOWN.                                                                                                                                                                                         |                              | X -              |
| MECHANICAL CHARACTERISTICS                                     |                                                                                                                                         |                                                 |                                                                                                                                                                                                                    |                              |                  |
| MECHANICAL OPERATION                                           | 10TIMES INSERTIONS AND EXTRACTIONS.                                                                                                     |                                                 | ① Signal contact resistance: 70 m $\Omega$ MAX. $\triangle$<br>Power contact resistance: 15 m $\Omega$ MAX. $\triangle$<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 $\mu$ s.<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 $\mu$ s.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                                                                                                           |                              | X -              |
| ENVIRONMENTAL CHARACTERISTICS                                  |                                                                                                                                         |                                                 |                                                                                                                                                                                                                    |                              |                  |
| RAPID CHANGE OF TEMPERATURE                                    | TEMPERATURE -55 $\rightarrow$ +85°C<br>TIME 30 $\rightarrow$ 30 min<br>UNDER 5 CYCLES.<br>(RELOCATION TIME TO CHAMBER : WITHIN 2-3 min) |                                                 | ① Signal contact resistance: 70 m $\Omega$ MAX. $\triangle$<br>Power contact resistance: 15 m $\Omega$ MAX. $\triangle$<br>② INSULATION RESISTANCE: 50M $\Omega$ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. |                              | X -              |
| DAMP HEAT (STEADY STATE)                                       | EXPOSED AT 40 $\pm$ 2 °C, 90 TO 95 %, 96 h.                                                                                             |                                                 | ① Signal contact resistance: 70 m $\Omega$ MAX. $\triangle$<br>Power contact resistance: 15 m $\Omega$ MAX. $\triangle$<br>② INSULATION RESISTANCE: 25M $\Omega$ 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: 70 m $\Omega$ MAX. $\triangle$<br>Power contact resistance: 15 m $\Omega$ MAX. $\triangle$                                                                                            |                              | X -              |
|                                                                |                                                                                                                                         |                                                 |                                                                                                                                                                                                                    |                              |                  |
| COUNT                                                          | DESCRIPTION OF REVISIONS                                                                                                                |                                                 | DESIGNED                                                                                                                                                                                                           | CHECKED                      | DATE             |
| $\triangle$ 8                                                  | DIS-H-00019757                                                                                                                          |                                                 | ST. HIRONAKA                                                                                                                                                                                                       | RT. SHIMIZU                  | 20240125         |
| REMARKS                                                        |                                                                                                                                         |                                                 | APPROVED                                                                                                                                                                                                           | MO. ISHIDA                   | 20170523         |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT               |                                                                                                                                         |                                                 | CHECKED                                                                                                                                                                                                            | TS. MIYAZAKI                 | 20170523         |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512. |                                                                                                                                         |                                                 | DESIGNED                                                                                                                                                                                                           | RT. SHIMIZU                  | 20170523         |
|                                                                |                                                                                                                                         |                                                 | DRAWN                                                                                                                                                                                                              | SN. NUMAZAKI                 | 20170523         |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |                                                                                                                                         |                                                 | DRAWING NO.                                                                                                                                                                                                        |                              | ELC-364665-53-00 |
| HRS                                                            | SPECIFICATION SHEET                                                                                                                     |                                                 | PART NO.                                                                                                                                                                                                           | BM28B0. 6-24DP/2-0. 35V (53) |                  |
|                                                                | HIROSE ELECTRIC CO., LTD.                                                                                                               |                                                 | CODE NO.                                                                                                                                                                                                           | CL0673-5024-0-53             | $\triangle$ 1/1  |