

| 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. 6-60DS/2-0. 35V                                                                                                                                                                                            |              |                                  |          |
|                                                                | CURRENT                     | SIGNAL CONTACT : 0. 3A MAX (TOTAL CONTACTS 10A MAX) $\triangle$<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 CHANBER : 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     |
| $\triangle$                                                    | 9                           | DIS-H-00019757                                                                                                                          |                           | ST. HIRONAKA                                                                                                                                                                                                       |              | RT. SHIMIZU                      | 20240125 |
| REMARKS                                                        |                             |                                                                                                                                         |                           | APPROVED                                                                                                                                                                                                           | WR. FUKUCHI  | 20171122                         |          |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT               |                             |                                                                                                                                         |                           | CHECKED                                                                                                                                                                                                            | TS. MIYAZAKI | 20171122                         |          |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512. |                             |                                                                                                                                         |                           | DESIGNED                                                                                                                                                                                                           | RT. SHIMIZU  | 20171121                         |          |
|                                                                |                             |                                                                                                                                         |                           | DRAWN                                                                                                                                                                                                              | RN. IIDA     | 20171121                         |          |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |                             |                                                                                                                                         |                           | DRAWING NO.                                                                                                                                                                                                        |              | ELC-365145-53-01                 |          |
| <b>HRS</b>                                                     |                             | SPECIFICATION SHEET                                                                                                                     |                           | PART NO.                                                                                                                                                                                                           |              | BM28B0. 6-60DP/2-0. 35V (53)     |          |
|                                                                |                             | HIROSE ELECTRIC CO., LTD.                                                                                                               |                           | CODE NO.                                                                                                                                                                                                           |              | CL0673-5037-0-53 $\triangle$ 1/1 |          |