

|                                                                |                             |                                                                                                                 |                                                                                                                     |                             |            |
|----------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------|------------|
| 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                                                                                                | BM15FR0. 8-10DP-0. 35V (**) |            |
|                                                                | 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                                           |                             | 10TIMES 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,<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 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                                                                                                            | MO. ISHIDA                  | 16. 01. 08 |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT               |                             |                                                                                                                 | CHECKED                                                                                                             | TS. MIYAZAKI                | 16. 01. 08 |
|                                                                |                             |                                                                                                                 | DESIGNED                                                                                                            | SH. HOSODA                  | 16. 01. 07 |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512. |                             |                                                                                                                 | DRAWN                                                                                                               | KR. AJITO                   | 16. 01. 07 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |                             |                                                                                                                 | DRAWING NO.                                                                                                         | ELC-355885-53-01            |            |
| HRS                                                            | SPECIFICATION SHEET         |                                                                                                                 | PART NO.                                                                                                            | BM15FR0. 8-10DS-0. 35V (53) |            |
|                                                                | HIROSE ELECTRIC CO., LTD.   |                                                                                                                 | CODE NO.                                                                                                            | CL673-1225-5-53             | △ 1/1      |