

|   |                             |   |   |                             |   |
|---|-----------------------------|---|---|-----------------------------|---|
| 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. 8-22DS-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 CHAMBER : 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  | KH. IKEDA                   | 13. 12. 05  |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT                                    |                             |   | CHECKED   | YH. MICHIDA                 | 13. 12. 05  |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512.                      |                             |   | DESIGNED  | YK. KOBAYASHI               | 13. 12. 02  |
|   |                             |   | DRAWN   | YK. KOBAYASHI               | 13. 12. 02  |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                      |                             |   | DRAWING NO.   |                             | ELC4-355558-01  |
|  | SPECIFICATION SHEET         |   | PART NO.  | BM15FR0. 8-22DP-0. 35V (51) |   |
|   | HIROSE ELECTRIC CO., LTD.   |   | CODE NO.  | CL673CL673-1224-2-51        |  1/1 |