

|                                                                |                             |                                                                                                                 |                                                                                                                     |                             |                |
|----------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------|
| 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. 8-30DS-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, SINGLE AMPLITUDE 0.75 mm, 10CYCLES, 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 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                   | 14. 01. 24     |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT               |                             |                                                                                                                 | CHECKED                                                                                                             | YH. MICHIDA                 | 14. 01. 24     |
|                                                                |                             |                                                                                                                 | DESIGNED                                                                                                            | YK. KOBAYASHI               | 14. 01. 23     |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512. |                             |                                                                                                                 | DRAWN                                                                                                               | YK. KOBAYASHI               | 14. 01. 23     |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |                             |                                                                                                                 | DRAWING NO.                                                                                                         |                             | ELC4-356366-01 |
|                                                                | SPECIFICATION SHEET         |                                                                                                                 | PART NO.                                                                                                            | BM15FR0. 8-30DP-0. 35V (51) |                |
|                                                                | HIROSE ELECTRIC CO., LTD.   |                                                                                                                 | CODE NO.                                                                                                            | CL673-1243-7-51             | 1/             |