

|                                                                                     |                             |                                                                                                                 |                                                                                                                     |                             |                                                                                           |
|-------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------|
| APPLICABLE STANDARD                                                                 |                             |                                                                                                                 |                                                                                                                     |                             |                                                                                           |
| RATING                                                                              | OPERATING TEMPERATURE RANGE | -35°C TO 85°C (NOTES 1)                                                                                         | STORAGE TEMPERATURE RANGE                                                                                           | -10°C TO 60°C               |                                                                                           |
|                                                                                     | VOLTAGE                     | 30V AC/DC                                                                                                       | APPLICABLE CONNECTOR                                                                                                | DF37*-30DP-0.4V (**)        |                                                                                           |
|                                                                                     | CURRENT                     | 0.3A                                                                                                            |                                                                                                                     |                             |                                                                                           |
| SPECIFICATIONS                                                                      |                             |                                                                                                                 |                                                                                                                     |                             |                                                                                           |
| ITEM                                                                                |                             | TEST METHOD                                                                                                     | REQUIREMENTS                                                                                                        | QT                          | AT                                                                                        |
| CONSTRUCTION                                                                        |                             |                                                                                                                 |                                                                                                                     |                             |                                                                                           |
| GENERAL EXAMINATION                                                                 |                             | CONFIRMED VISUALLY AND BY MEASURING INSTRUMENT.                                                                 | ACCORDING TO DRAWING.                                                                                               | X                           | X                                                                                         |
| MARKING                                                                             |                             | CONFIRMED VISUALLY.                                                                                             |                                                                                                                     | X                           | X                                                                                         |
| ELECTRIC CHARACTERISTICS                                                            |                             |                                                                                                                 |                                                                                                                     |                             |                                                                                           |
| CONTACT RESISTANCE                                                                  |                             | 20mV AC OR LESS 1kHz, 1mA                                                                                       | 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 DAMAGE, CRACK OR LOOSENESS OF PARTS.                                       | X                           | —                                                                                         |
| SALT MIST                                                                           |                             | EXPOSED IN 5% SALT MIST FOR 48h.                                                                                | ① CONTACT RESISTANCE: 100mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                       | X                           | —                                                                                         |
|                                                                                     |                             |                                                                                                                 |                                                                                                                     |                             |                                                                                           |
|                                                                                     | COUNT                       | DESCRIPTION OF REVISIONS                                                                                        | DESIGNED                                                                                                            | CHECKED                     | DATE                                                                                      |
|  |                             |                                                                                                                 |                                                                                                                     |                             |                                                                                           |
| REMARKS                                                                             |                             |                                                                                                                 | APPROVED                                                                                                            | MO. ISHIDA                  | 16.03.31                                                                                  |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT                                    |                             |                                                                                                                 | CHECKED                                                                                                             | TS. MIYAZAKI                | 16.03.30                                                                                  |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512                       |                             |                                                                                                                 | DESIGNED                                                                                                            | NY. YAMASHIRO               | 16.03.30                                                                                  |
|                                                                                     |                             |                                                                                                                 | DRAWN                                                                                                               | KR. AJITO                   | 16.03.30                                                                                  |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                      |                             |                                                                                                                 | DRAWING NO.                                                                                                         |                             | ELC-339855-51-01                                                                          |
|  | SPECIFICATION SHEET         |                                                                                                                 | PART NO.                                                                                                            | DF37NC (1.5)-30DS-0.4V (51) |                                                                                           |
|                                                                                     | HIROSE ELECTRIC CO., LTD.   |                                                                                                                 | CODE NO.                                                                                                            | CL684-3604-8-51             |  1/1 |