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|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------|
| APPLICABLE STANDARD                                                                                                              |                             |                                                                                                                  |                                                                                                                     |                       |                                                                                           |
| RATING                                                                                                                           | OPERATING TEMPERATURE RANGE | -35°C TO +85°C (NOTES 1)                                                                                         | STORAGE TEMPERATURE RANGE                                                                                           | -10°C TO +60°C        |                                                                                           |
|                                                                                                                                  | VOLTAGE                     | 30V AC                                                                                                           | APPLICABLE CONNECTOR                                                                                                | DF37*-34DS-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,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                                                                                                       |                             |                                                                                                                  |                                                                                                                     |                       |                                                                                           |
| INSERTION AND WITHDRAWAL FORCES                                                                                                  |                             | MEASURED BY APPLICABLE CONNECTOR.                                                                                | INSERTION FORCE 40.8 N MAX.      | X                     | —                                                                                         |
|                                                                                                                                  |                             |                                                                                                                  | EXTRACTION FORCE 6.9 N MIN.                                                                                         | X                     | —                                                                                         |
| 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                                                                                      |
|                                               | 1                           | DIS-H-004693                                                                                                     | KR. AJITO                                                                                                           | TS. MIYAZAKI          | 10. 03. 30                                                                                |
| REMARKS<br>NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT<br><br>Unless otherwise specified, refer to JIS C 5402 and IEC 60512 |                             |                                                                                                                  | APPROVED                                                                                                            | MO. NAKAMURA          | 07. 03. 29                                                                                |
|                                                                                                                                  |                             |                                                                                                                  | CHECKED                                                                                                             | KH. IKEDA             | 07. 03. 29                                                                                |
|                                                                                                                                  |                             |                                                                                                                  | DESIGNED                                                                                                            | KY. MIDORIKAWA        | 07. 03. 29                                                                                |
|                                                                                                                                  |                             |                                                                                                                  | DRAWN                                                                                                               | KY. MIDORIKAWA        | 07. 03. 29                                                                                |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                   |                             |                                                                                                                  | DRAWING NO.                                                                                                         |                       | ELC4-315554-01                                                                            |
|                                               | SPECIFICATION SHEET         |                                                                                                                  | PART NO.                                                                                                            | DF37B-34DP-0. 4V (51) |                                                                                           |
|                                                                                                                                  | HIROSE ELECTRIC CO., LTD.   |                                                                                                                  | CODE NO.                                                                                                            | CL684-3064-2-51       |  1/1 |