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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------|------------|
| APPLICABLE STANDARD                                                                                                                                                                                                                                                                   |                             |                                                                                                 |                                                                                     |                         |            |
| RATING                                                                                                                                                                                                                                                                                | OPERATING TEMPERATURE RANGE | -40 °C TO +100 °C(NOTE1)                                                                        | STORAGE TEMPERATURE RANGE                                                           | -10 °C TO +60 °C(NOTE3) |            |
|                                                                                                                                                                                                                                                                                       | OPERATING HUMIDITY RANGE    | 20% TO 80%(NOTE2)                                                                               | STORAGE HUMIDITY RANGE                                                              | 20% TO 70%(NOTE3)       |            |
|                                                                                                                                                                                                                                                                                       | VOLTAGE                     | 150 V AC                                                                                        | CURRENT                                                                             | 1 A                     |            |
| 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 MILLIVOLT LEVEL METHOD                                                                                                                                                                                                                                             |                             | 100 V DC.                                                                                       | 500 MΩ MIN.                                                                         | X                       | —          |
| VOLTAGE PROOF                                                                                                                                                                                                                                                                         |                             | 500 V AC FOR 1 min.                                                                             | NO FLASHOVER OR BREAKDOWN.                                                          | X                       | —          |
| MECHANICAL CHARACTERISTICS                                                                                                                                                                                                                                                            |                             |                                                                                                 |                                                                                     |                         |            |
| VIBRATION                                                                                                                                                                                                                                                                             |                             | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, 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                                                                                                                                                                                                                                                         |                             |                                                                                                 |                                                                                     |                         |            |
| DAMP HEAT (STEADY STATE)                                                                                                                                                                                                                                                              |                             | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.                                                         | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.       | X                       | —          |
| RAPID CHANGE OF TEMPERATURE                                                                                                                                                                                                                                                           |                             | TEMPERATURE -55 →5 TO 35 →+85→5 TO35°C<br>TIME 30 →10 TO 15 →30 →10 TO 15min<br>UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.       | X                       | —          |
| REMARKS                                                                                                                                                                                                                                                                               |                             |                                                                                                 |                                                                                     |                         |            |
| NOTE1: INCLUDING THE TEMPERATURE RISE BY CURRENT.<br>NOTE2:NO CONDENSING<br>NOTE3:APPLY TO THE CONDITION OF LONGTERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD, AFTER PCB BOARD, OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION. |                             |                                                                                                 |                                                                                     |                         |            |
| Unless otherwise specified, refer to JIS C 5402.                                                                                                                                                                                                                                      |                             |                                                                                                 |                                                                                     |                         |            |
|                                                                                                                                                                                                                                                                                       | COUNT                       | DESCRIPTION OF REVISIONS                                                                        | DESIGNED                                                                            | CHECKED                 | DATE       |
| △                                                                                                                                                                                                                                                                                     |                             |                                                                                                 |                                                                                     |                         |            |
|                                                                                                                                                                                                                                                                                       |                             |                                                                                                 | APPROVED                                                                            | KI. AKIYAMA             | 11. 08. 05 |
|                                                                                                                                                                                                                                                                                       |                             |                                                                                                 | CHECKED                                                                             | HK. UMEHARA             | 11. 08. 05 |
|                                                                                                                                                                                                                                                                                       |                             |                                                                                                 | DESIGNED                                                                            | TS. KUMAZAWA            | 11. 08. 05 |
|                                                                                                                                                                                                                                                                                       |                             |                                                                                                 | DRAWN                                                                               | ST. SATO                | 11. 08. 04 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                                                                                                                        |                             |                                                                                                 | DRAWING NO.                                                                         | ELC4-081789-01          |            |
| HRS                                                                                                                                                                                                                                                                                   | SPECIFICATION SHEET         |                                                                                                 | PART NO.                                                                            | DF13-4S-1. 25C          |            |
|                                                                                                                                                                                                                                                                                       | HIROSE ELECTRIC CO., LTD.   |                                                                                                 | CODE NO.                                                                            | CL536-0003-0-00         | △ 1/1      |