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| APPLICABLE STANDARD                                                                                                                                                                                                                                                                         |                             |                                                                                        |                                                                                   |                          |                |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------|----------------|------------|
| RATING                                                                                                                                                                                                                                                                                      | OPERATING TEMPERATURE RANGE | -35 °C TO +85 °C(NOTE 1)                                                               | STORAGE TEMPERATURE RANGE                                                         | -10 °C TO +60 °C(NOTE 3) |                |            |
|                                                                                                                                                                                                                                                                                             | OPERATING HUMIDITY RANGE    | 40% TO 80%(NOTE 2)                                                                     | STORAGE HUMIDITY RANGE                                                            | 40% TO 70%(NOTE 3)       |                |            |
|                                                                                                                                                                                                                                                                                             | VOLTAGE                     | 250 V AC                                                                               | APPLICABLE CONTACT                                                                | DF1E-※※※※PC(F)           |                |            |
|                                                                                                                                                                                                                                                                                             | CURRENT                     | AWG20 TO 24 : 3 A<br>AWG26 : 2 A<br>AWG28 : 1 A<br>AWG30 : 0.5 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                                                                                                                                                                                                                                                                    |                             |                                                                                        |                                                                                   |                          |                |            |
| INSULATION RESISTANCE                                                                                                                                                                                                                                                                       |                             | 500 V DC.                                                                              | 1000 MΩ MIN.                                                                      | X                        | —              |            |
| VOLTAGE PROOF                                                                                                                                                                                                                                                                               |                             | 650 V AC FOR 1 min.                                                                    | NO FLASHOVER OR BREAKDOWN.                                                        | X                        | —              |            |
| MECHANICAL CHARACTERISTICS                                                                                                                                                                                                                                                                  |                             |                                                                                        |                                                                                   |                          |                |            |
| MECHANICAL OPERATION                                                                                                                                                                                                                                                                        |                             | 30 TIMES INSERTIONS AND EXTRACTIONS.                                                   | NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                           | X                        | —              |            |
| VIBRATION                                                                                                                                                                                                                                                                                   |                             | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.             |                                                                                   | X                        | —              |            |
| SHOCK                                                                                                                                                                                                                                                                                       |                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.              |                                                                                   | X                        | —              |            |
| ENVIRONMENTAL CHARACTERISTICS                                                                                                                                                                                                                                                               |                             |                                                                                        |                                                                                   |                          |                |            |
| DAMP HEAT (STEADY STATE)                                                                                                                                                                                                                                                                    |                             | EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h.                                                  | ① INSULATION RESISTANCE: 500 MΩ MIN.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X                        | —              |            |
| RAPID CHANGE OF TEMPERATURE                                                                                                                                                                                                                                                                 |                             | TEMPERATURE -55→5 TO 35→85→5 TO 35°C<br>TIME 30→5 MAX →30→5 MAX min<br>UNDER 5 CYCLES. |                                                                                   | X                        | —              |            |
| REMARKS                                                                                                                                                                                                                                                                                     |                             |                                                                                        |                                                                                   |                          |                |            |
| NOTE1:INCLUDING THE TEMPERATURE RISING BY CURRENT.<br>NOTE2:NO CONDENSING.<br>NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD. AFTER PCB ON 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                 | TS. SAKATA     | 10. 02. 16 |
|                                                                                                                                                                                                                                                                                             |                             |                                                                                        |                                                                                   | CHECKED                  | TS. FUKUSHIMA  | 10. 02. 16 |
|                                                                                                                                                                                                                                                                                             |                             |                                                                                        |                                                                                   | DESIGNED                 | HT. SATO       | 10. 02. 10 |
|                                                                                                                                                                                                                                                                                             |                             |                                                                                        | DRAWN                                                                             | YK. NAKATSU              | 10. 02. 09     |            |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                                                                                                                              |                             |                                                                                        | DRAWING NO.                                                                       |                          | ELC4-161949-01 |            |
|                                                                                                                                                                                                                                                                                             | SPECIFICATION SHEET         |                                                                                        | PART NO.                                                                          | DF1E-*EP-2. 5C           |                |            |
|                                                                                                                                                                                                                                                                                             | HIROSE ELECTRIC CO., LTD.   |                                                                                        | CODE NO.                                                                          | CL541                    | 1/1            |            |