



**THE DATASHEET OF  
DF1E-2S-2.5C**



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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                 | CURRENT  | AWG20 TO 22 : 3 A        |                |
|  |   |                          |  | AWG24 TO 28 : 1 A        |                |
|  |   |                          | 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.          |                          | 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.           |                          | 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 INSULATION RESISTANCE: 500 MΩMIN.<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 → 30→ 5 min<br>UNDER 5 CYCLES. |                          | ① INSULATION RESISTANCE:1000 MΩMIN.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X                        | —              |
| REMARKS  |   |                          |  |                          |                |
| NOTE1:INCLUDING THE TEMPERATURE RISING BY CURRENT.   |   |                          |  |                          |                |
| NOTE2:NO CONDENSING.   |   |                          |  |                          |                |
| NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD AFTER PCBBOARD , OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERM STORAGE DURING TRANSPORTATION. |   |                          |  |                          |                |
|  | COUNT   | DESCRIPTION OF REVISIONS | DESIGNED   | CHECKED                  | DATE           |
|  |   |                          |  |                          |                |
| Unless otherwise specified, refer to JIS C 5402.   |   |                          | APPROVED   | TY. OMA                  | 07. 02. 27     |
|  |   |                          | CHECKED  | HK. UMEHARA              | 07. 02. 27     |
|  |   |                          | DESIGNED   | AH. MIYAZAKI             | 07. 02. 22     |
|  |   |                          | DRAWN  | AK. MIURA                | 07. 02. 22     |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test   |   |                          | DRAWING NO.  |                          | ELC4-161939-01 |
|  | SPECIFICATION SHEET   |                          | PART NO.   | DF1E-*S-2. 5C            |                |
|  | HIROSE ELECTRIC CO., LTD.   |                          | CODE NO.   | CL541                    | 1/1            |

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