



**THE DATASHEET OF
DF1E-4S-2.5C**



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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| 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 ² 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. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→ 5 TO 35→85→ 5 TO 35°C TIME 30→ 5 → 30→ 5 min UNDER 5 CYCLES. | | ① INSULATION RESISTANCE:1000 MΩMIN. 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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