

J un.1.2023 Copyright 2023 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
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 (NOTES 1) | | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C (NOTE2) | | |
| | VOLTAGE | 250 V AC | | APPLICABLE CONNECTOR | DF1E-*S-2.5C | | |
| | CURRENT | AWG20 TO 24: 3A AWG26: 2A AWG28: 1A AWG30: 0.5A | | UL, CSA | VOLTAGE | AC 30V | |
| | | | CURRENT | | AWG20 TO 22: 3A AWG24 TO 28: 1A AWG30: 0.5A | | |
| 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. | | 20 mV MAX, 1 mA(DC OR 1000 Hz). | | 30 mΩ MAX. | | X | - |
| 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. | | ① CONTACT RESISTANCE: 30 mΩ MAX. ② 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. | | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | X | - |
| SHOCK | | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | | | X | - |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE -55→ 5 TO 35→+85→ 5 TO 35 °C TIME 30→ 5 MAX→ 30→ 5 MAX min UNDER 5 CYCLES. | | ① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. 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: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | X | - |
| RESISTANCE TO SOLDERING HEAT | | 1) AUTOMATIC SOLDERING (FLOW) SOLDER TEMPERATURE, 260 °C FOR IMMERSION,DURATION, 10 sec. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE : 300 °C, SOLDERING TIME : 3 sec. NO STRENGTH ON CONTACT. | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | | X | - |
| SOLDERABILITY | | SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSING DURATION, 5 s. | | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | | X | - |
| | | | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | | DESIGNED | CHECKED | DATE | |
| △ | | | | | | | |
| REMARKS | | | | APPROVED | KI. AKIYAMA | 15.05.23 | |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT. | | | | CHECKED | TS. FUKUSHIMA | 15.05.23 | |
| NOTE2:NO CONDENSING. | | | | DESIGNED | TS. KUMAZAWA | 15.05.23 | |
| NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD,AFTER PCB BOARD,OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION. | | | | DRAWN | MI. SAKIMURA | 15.05.23 | |
| Unless otherwise specified, refer to IEC 60512. | | | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | | DRAWING NO. | ELC-161943-35-00 | | |
| HRS | SPECIFICATION SHEET | | | PART NO. | DF1EC-*P-2.5DSA (35) | | |
| | HIROSE ELECTRIC CO., LTD. | | | CODE NO. | CL541 | △ | 1/1 |

| |
|----|
| TO |
| |
| |
| |