

Apr.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(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 CONNECTORS | DF1B-*EP-2.5RC | |
| | CURRENT | AWG20 TO 24 : 3 A AWG26 : 2 A AWG28 : 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 | | | | | |
| 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: 1000 MΩ MIN. 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 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES. | ① INSULATION RESISTANCE: 1000 MΩ MIN. 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. | | | | | |
| Unless otherwise specified, refer to JIS C 5402. | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| △ | | | | | |
| | | | APPROVED | TY.OMA | 06.11.01 |
| | | | CHECKED | HK.UMEHARA | 06.11.01 |
| | | | DESIGNED | AH.MIYAZAKI | 06.10.31 |
| | | | DRAWN | AK.MIURA | 06.10.27 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-162335-02 |
| HRS | SPECIFICATION SHEET | | PART NO. | DF1B-*ES-2.5RC | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL541 | △ 1/1 |