

Mar.1.2024 Copyright 2024 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 | -30°C TO + 85°C (NOTE 1) | STORAGE TEMPERATURE RANGE | -10°C TO + 60°C | |
| | VOLTAGE | 250V AC | CURRENT | 3A | |
| 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 | 100mA (DC OR 1000 Hz). | 30mΩ MAX. | X | - | |
| INSULATION RESISTANCE | 500V DC. | 1000MΩ MIN. | X | - | |
| VOLTAGE PROOF | 650V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | - | |
| MECHANICAL CHARACTERISTICS | | | | | |
| MECHANICAL OPERATION | 30TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 30mΩ 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 1μs. 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. | ① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→ 5 TO 35→+85→ 5 TO 35 °C TIME 30→ 5 TO 15 → 30→ 5 TO 15 min UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 1000MΩ 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: 10mΩ MAX. ② INSULATION RESISTANCE: 1000MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - | |
| RESISTANCE TO SOLDERING HEAT | SOLDER TEMPERATURE, 260 °C FOR IMMERSION,DURATION, 5 sec. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | - | |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 230°C FOR INSERTION DURATION, 3sec. | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | X | - | |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | | | | | |
| REMARKS | | | APPROVED | TY.OMA | 05.10.27 |
| NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT. | | | CHECKED | HK.UMEHARA | 05.10.27 |
| Unless otherwise specifid , refer to JIS C 5402. | | | DESIGNED | IO.DENPOUYA | 05.10.27 |
| | | | DRAWN | AK.MIURA | 05.10.27 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-160051-01 |
| | SPECIFICATION SHEET | | PART NO. | DF3A-*P-2DS | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL543 | 1/1 |