



**THE DATASHEET OF
DF11-22DS-2DSA(06)**



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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 | -40°C TO + 85°C (NOTE 1) \triangle 1 | STORAGE TEMPERATURE RANGE | | -10°C TO + 60°C (NOTE 2) |
| | OPERATING HUMIDITY RANGE \triangle 1 | 40% TO 80% (NOTE 3) | STORAGE HUMIDITY RANGE \triangle 1 | | 40% TO 70% (NOTE 2) |
| | VOLTAGE | AC 250V | UL · CSA | VOLTAGE | AC 30V |
| | CURRENT | 2A | RATING | CURRENT | 2A |
| 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 | 50TIMES 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 | | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. | | ① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 500MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | X - |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55 → 5 TO 35 → +85 → 5 TO 35°C TIME 30 → 5MAX → 30 → 5MAX min UNDER 5 CYCLES. | | ① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 1000MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | X - |
| RESISTANCE TO SOLDERING HEAT | 1)AUTOMATIC SOLDERING (FLOW) SOLDER TEMPERATURE : 260±3°C FOR IMMERSION,DURATION , 10 sec . 2)MANUAL SOLDERING SOLDERING IRON TEMPERATURE : 290±10°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, 245°C FOR INSERTION DURATION, 10sec. | | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | | X - |
| \triangle | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | 3 | DIS-H-008583 | MI. SAKIMURA | HK. UMEHARA | 14. 03. 25 |
| REMARKS | | | | APPROVED | 05. 01. 05 |
| NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT | | | | KJ. KATAYOSE | |
| NOTE2:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD, AFTER PCB BOARD. | | | | CHECKED | 05. 01. 05 |
| OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION. | | | | TY. OMA | |
| NOTE3:NON-CONDENSING. | | | | DESIGNED | 05. 01. 05 |
| Unless otherwise specified , refer to IEC 60512. | | | | IO. DENPOUYA | |
| | | | | DRAWN | 05. 01. 05 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-162401-02 |
| HRS | SPECIFICATION SHEET | | PART NO. | DF11-*DS-2DSA (06) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL543 | \triangle 1/1 |

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