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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 ⚠5 | OPERATING TEMPERATURE RANGE | -40°C TO + 85°C(NOTE 1) | STORAGE TEMPERATURE RANGE | | -10°C TO + 60°C(NOTE 2) |
| | OPERATING HUMIDITY RANGE | 40% TO 80%(NOTE 3) | STORAGE HUMIDITY RANGE | | 40% TO 70%(NOTE 2) |
| | VOLTAGE | 250V AC/DC | UL・CSA RATING | VOLTAGE | 30V AC |
| | CURRENT | AWG#22 : 2A<br>AWG#24-28 : 1A<br>AWG#30 : 0.5A | | CURRENT | AWG#22 : 2A<br>AWG#24-28 : 1A<br>AWG#30 : 0.5A |
| | APPLICABLE CONNECTOR | DF11-**DS-2C(##) | APPLICABLE CONTACT | | DF11-**SC(F)(##) |

# 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.<br>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.<br>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.<br>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.<br>② INSULATION RESISTANCE: 500MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→ 5 TO 35→+85→ 5 TO 35°C<br>TIME 30→ 5MAX → 30→ 5MAX min<br>UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② INSULATION RESISTANCE: 1000MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| RESISTANCE TO SOLDERING HEAT | 1)AUTOMATIC SOLDERING (FLOW)<br>SOLDER TEMPERATURE : 260℃ FOR IMMERSION,DURATION , 10 sec .<br>2)MANUAL SOLDERING<br>SOLDERING IRON TEMPERATURE : 300℃<br>SOLDERING TIME : 2 sec.<br>NO STRENGTH ON CONTACT. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | × | — |
| 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 |
|---|---|---|---|---|---|
| ⚠5 | 1 | DIS-H-00004051 | TS.MIYAKI | SZ.ONO | 18.07.20 |

REMARKS
NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT
NOTE2: APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE MOUNTED ON PCB. AFTER MOUNTED ON PCB, OPERATION TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION.
NOTE3:NON-CONDENSING.
Unless otherwise specified , refer to IEC 60512.

| | | |
|---|---|---|
| APPROVED | KJ.KATAYOSE | 05.01.05 |
| CHECKED | TY.OMA | 05.01.05 |
| DESIGNED | IO.DENPOUYA | 05.01.05 |
| DRAWN | IO.DENPOUYA | 05.01.05 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-084377-01

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|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | DF11-**DP-2DSA(08) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL543 | ⚠5 1/1 |

FORM HD0011-2-1