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 (NOTE 2) | |
| | OPERATING HUMIDITY RANGE | 40% TO 80% | STORAGE HUMIDITY RANGE | 40% TO 70% (NOTE 2) | |
| | VOLTAGE | 250V AC | UL・CSA RATING VOLTAGE | 30V AC | |
| | CURRENT | AWG 22 TO 26 : 2A<br>AWG 28 : 1A<br>AWG 30 : 0.5A | UL・CSA RATING CURRENT | AWG 22 : 2A<br>AWG 24 TO 28 : 1A<br>AWG 30 : 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 | 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 | 30 TIMES 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. | | X | – |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→5 TO 35→+85 →5 TO 35 °C<br>TIME 30→5 TO 15 →30 →5 TO15 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 | – |
| 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 | – |
| RESISTANCE TO SOLDERING HEAT | 【RECOMMENDED TEMPERATURE PROFILE 】<br>SOLDER TEMPERATURE, 260 ± 3 ℃, FOR IMMERSION ,DURATION ,10s.<br>【RECOMMENDED MANUAL SOLDERING CONDITION 】<br>SOLDERING IRON TEMPERATURE: 290 ± 10 ℃ FOR WITHIN 3s.<br>NO STRENGTH ON CONTACT. NO STRENGTH ON CONTACT. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | – |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE,245°C FOR IN IMMERSION , DURATION, 10 s. | A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | X | – |

| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| ⚠0 | | | | | |

REMARKS
NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT.
NOTE 2: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 INTERM STORAGE DURING TRANSPORTATION.
Unless otherwise specifid , refer to JIS C 5402.

| | | |
|---|---|---|
| APPROVED | TS. SAKATA | 08. 12. 17 |
| CHECKED | TS. KUMAZAWA | 08. 12. 17 |
| DESIGNED | KT. ISHII | 08. 12. 15 |
| DRAWN | KT. ISHII | 08. 12. 15 |

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

DRAWING NO. ELC4-080253-01

| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | DF11-22DS-2DSA(05) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL543-0561-7-05 ⚠0 | 1/1 |

FORM HD0011-2-1