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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 | -30 °C TO +85 °C(NOTE1) | | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C(NOTE2) |
| | VOLTAGE | 250 V AC | | APPLICABLE CONNECTORS | DF1-＊P-2.5DS,DF1-＊P-2.5DSA |
| | CURRENT | AWG28 | 1A | OPERATING HUMIDITY RANGE | UL1007,AWG28 |

# 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 | 100 mA (DC OR 1000 Hz). | 30 mΩ MAX. | X | — |
| INSULATION RESISTANCE | 500 V DC. | 1000 MΩ MIN. | X | — |
| VOLTAGE PROOF | 650 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | — |
| **MECHANICAL CHARACTERISTICS** | | | | |
| MECHANICAL OPERATION | 30 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 30 mΩ 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 1 μs.<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℃<br>TIME 30→ 10 → 30→ 10 min<br>UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② INSULATION RESISTANCE:1000 MΩMIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | – |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40±2 ℃, 90 TO 95 %, 96 h. | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② INSULATION RESISTANCE: 1000 MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | – |

REMARKS

NOTE1:INCLUDING THE TEMPERATURE RISING BY CURRENT.

NOTE2: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 |
|---|---|---|---|---|---|
| △0 | | | | | |

| | | |
|---|---|---|
| APPROVED | TY.OMA | 05.12.22 |
| CHECKED | HK.UMEHARA | 05.12.21 |
| DESIGNED | NS.HIROSE | 05.12.21 |
| DRAWN | AK.MIURA | 05.12.20 |

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

DRAWING NO. ELC4-162346-01

| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | DF1-＊S-2.5R28(05) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL541 △0 | 1/ |

FORM HD0011-2-1