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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 | -35°C TO +85°C(NOTES 1) | STORAGE TEMPERATURE RANGE | -10°C TO +60°C |
| | VOLTAGE | 30V AC | APPLICABLE CONNECTOR | DF36-20P-0.4SD |
| | CURRENT | 0.25A | | |

# 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 | 100m A (DC OR 1000 Hz). | CONTACT:80mΩ MAX.<br>SHIELDING:80mΩ MAX. | X | — |
| INSULATION RESISTANCE | 100V DC. | 50MΩ MIN. | X | — |
| VOLTAGE PROOF | 100V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | — |
| **MECHANICAL CHARACTERISTICS** | | | | |
| MECHANICAL OPERATION | 30TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE:<br>NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE.<br>SHIELDING RESISTANCE:<br>NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 3 DIRECTIONS ×10 CYCLE. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. | X | — |
| SHOCK | 490 $m/s^2$ DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55 →+85 °C<br>TIME 30 → 30 min<br>UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE CHAMBER IS 2-3 MINUTE.) | ① CONTACT RESISTANCE:<br>NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE.<br>SHIELDING RESISTANCE:<br>NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE.<br>② INSULATION RESISTANCE: 25 MΩ 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. | | X | — |
| SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY 48 h. | NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR. | X | — |
| SULFUR DIOXIDE GAS | EXPOSED IN 10-15 PPM 96h. | | X | — |
| RESISTANCE TO SOLDERING HEAT | ①REFLOW TEMPERATURE:<br>PEAK 250°C MAX,<br>240°C MIN :20 sec MAX<br>220°C MIN :60 sec MAX<br>②MANUAL SOLDERING TEMPERATURE:<br>350°C, 3sec MAX. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | — |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 230°C FOR INSERTION DURATION, 3 sec. | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | X | — |
| | | | | |

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

REMARKS
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT

Unless otherwise specified, refer to JIS C 5402,IEC60512.

| | | |
|---|---|---|
| APPROVED | KH. IKEDA | 14.11.06 |
| CHECKED | MH. TSUCHIDA | 14.11.06 |
| DESIGNED | IO. DENPOUYA | 14.11.06 |
| DRAWN | YJ. HAGA | 14.10.23 |

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

DRAWING NO. ELC4-320369-01

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|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | DF36-20S-0.4V(55) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL662-4039-3-55 ⚠0 | 1/1 |

FORM HD0011-2-1