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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(NOTE 1) | STORAGE TEMPERATURE RANGE | -10°C TO 60°C |
| | VOLTAGE | 30V AC | APPLICABLE CONNECTOR | DF40*-20DS-0.4V |
| | CURRENT | 0.3A | | |

# 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 | 20mV AC OR LESS 1kHz,1m A . | 90mΩ 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: 90mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| VIBRATION | FREQUENCY 10 TO 55 TO 10 Hz,APPROX 5min, SINGLE AMPLITUDE 0.75 mm,10CYCLES, 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. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→ 5 TO 35→+85→ 5 TO 35°C<br>TIME 30→ 5 MAX→ 30→ 5 MAX min<br>UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 90mΩ MAX.<br>② INSULATION RESISTANCE: 50MΩ 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: 90mΩ MAX.<br>② INSULATION RESISTANCE: 25MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| SULPHUR DIIOXIDE | EXPOSED IN 25 PPM FOR 96h,25℃,75%. | ① CONTACT RESISTANCE: 180mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| | | | 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 and IEC 60512.

| | | |
|---|---|---|
| APPROVED | KH. IKEDA | 08.06.23 |
| CHECKED | TS.MIYAZAKI | 08.06.23 |
| DESIGNED | TK. SUZUKI | 08.06.23 |
| DRAWN | TK. SUZUKI | 08.06.23 |

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

DRAWING NO. ELC4-311342-02

| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | DF40C-20DP-0.4V(51) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL684-4010-9-51 ⚠0 | 1/1 |

FORM HD0011-2-1