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 In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| DESCRIPTION OF REVISIONS | | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | | BY | CHKD | DATE |
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| APPLICABLE STANDARD | | | | | | | | | | |
| RATING | OPERATING TEMPERATURE RANGE | - 35 °C TO 85 °C(NOTE1) | | | STORAGE TEMPERATURE RANGE | - 10 °C TO 60 °C | | | | |
| | VOLTAGE | 50 V A C | | | APPLICABLE CONNECTOR | DF23A/C-*DP-0.5V | | | | |
| | CURRENT | 0.3 A | | | | | | | | |
| 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 | |
| ELECTRICAL CHARACTERISTICS | | | | | | | | | | |
| CONTACT RESISTANCE | | 100 mA (DC OR 1000 Hz). | | | 60 mΩ MAX. | | | x | - | |
| INSULATION RESISTANCE | | 100 V DC. | | | 500 MΩ MIN. | | | x | - | |
| VOLTAGE PROOF | | 150 V AC FOR 1 min. | | | NO FLASHOVER OR BREAKDOWN. | | | x | - | |
| MECHANICAL CHARACTERISTICS | | | | | | | | | | |
| MECHANICAL OPERATION | | 50 TIMES INSERTIONS AND EXTRACTIONS. | | | ① CONTACT RESISTANCE: 60 mΩ MAX ② NO DAMAGE, CRACK AND 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. ② NO DAMAGE, CRACK AND 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. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | | x | - | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | | | | |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h. | | | ① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 250 MΩ MIN ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS | | | x | - | |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE: -55→ 5 TO 35→85→ 5 TO 35 °C TIME: 30→10 TO 15→30→10 TO 15 min UNDER 5 CYCLES. | | | ① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | | x | - | |
| CORROSION SALT MIST | | EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. | | | ① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION. | | | x | - | |
| SULPHUR DIOXIDE | | EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD:JEIDA-39) | | | ① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION. | | | x | - | |
| REMARKS | | | | | | | | | | |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT. | | | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED | | |
| | | | | <i>J. Goi</i> | <i>J. Goi</i> | <i>S. Tashiro</i> | <i>K. Katayama</i> | | | |
| Unless otherwise specified, refer to MIL-STD-1344. | | | | '01.3.14 | '01.3.14 | '01.3.16 | '01.3.16 | | | |
| Note QT: Qualification Test AT: Assurance Test x: Applicable Test | | | | | | | | | | |
| HS HIROSE ELECTRIC CO., LTD. | | | | SPECIFICATION SHEET | | | PART NO. DF23C-*DS-0.5V(51) | | | |
| CODE NO.(OLD) | | | DRAWING NO | | CODE NO. | | | | | 1 |
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