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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 | - 3 5 °C TO 8 5 °C(NOTE1) | | | | STORAGE TEMPERATURE RANGE | - 1 0 °C TO 6 0 °C | | | | |
| | VOLTAGE | 5 0 V A C | | | | APPLICABLE CONNECTOR | DF23A/C-18DS-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 | | | | | | | | | | | |
| INSERTION AND WITHDRAWAL FORCES | | MEASURED BY APPLICABLE CONNECTOR. | | | | INSERTION FORCE: 28 N MAX. EXTRACTION FORCE: 2.7 N MIN. | | | | x | — |
| 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 | | |
| | | | | | T.Yamamoto '03.10.1 | <i>T.Yamamoto</i> '03.10.2 | <i>K.Akayama</i> '03.10.2 | <i>K.Akayama</i> '03.10.2 | | | |
| Unless otherwise specified, refer to IEC60512 | | | | | | | | | | | |
| Note QT: Qualification Test AT: Assurance Test x: Applicable Test | | | | | | | | | | | |
| HRS HIROSE ELECTRIC CO., LTD. | | | | | SPECIFICATION SHEET | | | PART NO. DF23C-18DP-0.5V(92) | | | |
| CODE NO.(OLD) CL | | | DRAWING NO. ELC4-164161-04 | | | CODE NO. CL688-0808-7-92 | | | 1 1 | | |

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