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

| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
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| APPLICABLE STANDARD | | | | | | | | | |
| RATING | OPERATING TEMPERATURE RANGE | -30 °C TO 85 °C(NOTE 1) | | | STORAGE TEMPERATURE RANGE | -10°C TO 60 °C | | | |
| | VOLTAGE | 250 V AC | | | OPERATING HUMIDITY RANGE | | | | |
| | CURRENT | 3 A | | | APPLICABLE CONNECTOR | | | | |
| SPECIFICATIONS | | | | | | | | | |
| ITEM | | TEST METHOD | | | REQUIREMENTS | | | QT | AT |
| CONSTRUCTION | | | | | | | | | |
| GENERAL EXAMINATION | | VISUALLY AND BY MEASURING INSTRUMENT. | | | ACCORDING TO DRAWING. | | | ○ | ○ |
| MARKING | | CONFIRMED VISUALLY. | | | | | | ○ | ○ |
| ELECTRIC CHARACTERISTICS | | | | | | | | | |
| CONTACT RESISTANCE | | 100mA (DC OR 1000 Hz). | | | 30 mΩ MAX. | | | ○ | — |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD. | | 20 mV MAX. mA(DC OR 1000 Hz). | | | m Ω MAX. | | | — | — |
| INSULATION RESISTANCE | | 500V DC. | | | 1000 MΩ MIN. | | | ○ | — |
| VOLTAGE PROOF | | 650 V AC FOR 1 min. | | | NO FLASH OVER OR BREAKDOWN. | | | ○ | — |
| MECHANICAL CHARACTERISTICS | | | | | | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | | BY STEEL GAUGE. | | | INSERTION FORCE N MAX. | | — | — | |
| | | | | | EXTRACTION FORCE N MIN. | | — | — | |
| INSERTION AND WITHDRAWAL FORCES | | MEASURED BY APPLICABLE CONNECTOR. | | | INSERTION FORCE N MAX. | | — | — | |
| | | | | | EXTRACTION FORCE N MIN. | | — | — | |
| MECHANICAL OPERATION | | 50 TIMES INSERTIONS AND EXTRACTIONS. | | | ① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | | | ○ | — |
| VIBRATION | | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75mm, — m/s ² AT 2 h, FOR 3 DIRECTIONS. | | | ① NO ELECTRICAL DISCONTINUITY OF 1μs. | | | ○ | — |
| SHOCK | | 490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIME FOR 3 DIRECTION. | | | ② CONTACT RESISTANCE: — mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | | | ○ | — |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | | | |
| 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: 30 mΩ MAX. ② INSULATION RESISTANCE: 1000 Ω MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | | | ○ | — |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h. | | | ① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | | | ○ | — |
| CORROSION SALT MIST | | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | | | ① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HAEAVY CORROSION. | | | ○ | — |
| HYDROGEN SULPHIDE | | EXPOSED IN — PPM FOR — h. (TEST STANDARD: JEIDA-38) | | | ① CONTACT RESISTANCE: mΩ MAX. ② NO HAEAVY CORROSION. | | | — | — |
| SULPHUR DIOXIDE | | EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39) | | | ① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HAEAVY CORROSION. | | | ○ | — |
| SOLDERING HEAT | | SOLDER TEMPERATURE, 260±5 °C FOR IMMERSION, DURATION, 10S | | | NO DEFORMATION ON CASE OR EXCESSIVE LOOSENESS OF THE TERMINALS | | | ○ | — |
| SOLDERABILITY | | SOLDERED AT SOLDER TEMPERATURE, 230±5°C FOR IMMERSION DURATION, 3S. | | | SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | | | ○ | — |
| REMARKS | | | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED | |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT | | | | M-Tanaka | M-Tanaka | K. Akayama | K. Katayama | | |
| Unless otherwise specified, refer to MIL-STD-1344. | | | | 99.5.28 | 99.5.28 | '99.5.28 | '99.5.31 | | |
| Note QT: Qualification Test AT: Assurance Test ○:Applicable Test | | | | | | | | | |
| HRS HIROSE ELECTRIC CO., LTD. | | | | SPECIFICATION SHEET | | | PART NO. | | |
| | | | | | | | DF3- *P-2DS (01) | | |
| CODE NO.(OLD) | | DRAWING NO | | | PEART NO | | | | |
| CL | | ELC4-162397-01 | | | CL543 | | | | |
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