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| | COUNT | 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 | | 1 0 0 0 V AC | | | APPLICABLE CONNECTOR | | D F 2 2 - * S - 7 . 9 2 C | | | |
| | CURRENT | | AWG14 : 18A AWG16 : 15A | | | APPLICABLE CABLE | | UL1015:AWG14~16 | | | |
| 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 | | 100 mA (DC OR 1000 Hz). | | | | mΩ MAX. | | | | — | — |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | | 20 mV MAX. 1 mA(DC OR 1000 Hz). | | | | INITIAL RESISTANCE : 5 mΩ MAX. | | | | ○ | — |
| INSULATION RESISTANCE | | 1000 V DC. | | | | 1000 MΩ MIN. | | | | ○ | — |
| VOLTAGE PROOF | | 2500 V AC FOR 1 min. | | | | NO FLASHOVER OR BREAKDOWN. | | | | ○ | — |
| MECHANICAL CHARACTERISTICS | | | | | | | | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | | 0.8 ± 0.002 × 1.6 ± 0.002 BY STEEL GAUGE. | | | | INSERTION FORCE 5.0 N MAX. EXTRACTION FORCE 0.3 N MIN. | | | | ○ | — |
| INSERTION AND WITHDRAWAL FORCES | | MEASURED BY APPLICABLE CONNECTOR. | | | | INSERTION FORCE N MAX. EXTRACTION FORCE N MIN. | | | | — | — |
| MECHANICAL OPERATION | | 30 TIMES INSERTIONS AND EXTRACTIONS. | | | | ① CONTACT RESISTANCE: 10 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | | ○ | — |
| VIBRATION | | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s ² AT 2h, FOR 3 DIRECTIONS. | | | | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. | | | | ○ | — |
| SHOCK | | 490 m/s ² DURATION OF PULSE 11ms AT 3 TIMES FOR 3 DIRECTIONS. | | | | ② CONTACT RESISTANCE: 10mΩ MAX. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | | ○ | — |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | | | | | |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE -55 → 5~35 → 85 → 5~35 °C TIME 30 → 5 → 30 → 5 min UNDER 5 CYCLES. | | | | ① CONTACT RESISTANCE: 10 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | | ○ | — |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 40 ± 2 °C, 90 ~ 95 %, 96 h. | | | | ① CONTACT RESISTANCE: 10 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | | ○ | — |
| RESISTANCE TO SOLDERING HEAT | | SOLDER TEMPERATURE, °C. FOR IMMERSION, DURATION, s. | | | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | | | | — | — |
| SOLDERABILITY | | SOLDERED AT SOLDER TEMPERATURE, °C FOR IN IMMERSION, DURATION, s. | | | | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | | | | — | — |
| REMARKS | | | | | | | | | | | |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT. | | | | | | DRAWN | | DESIGNED | | CHECKED | |
| Unless otherwise specified, refer to MIL-STD-1344. | | | | | | T. Miyazaki 00.2.9 | | T. Miyazaki 00.2.9 | | K. Akuyama '00.3.1 | |
| | | | | | | K. Katayama '00.3.1 | | | | | |
| Note QT:Qualification Test AT:Assurance Test ○:Applicable Test | | | | | | | | | | | |
| HRS HIROSE ELECTRIC CO., LTD. | | | | | | SPECIFICATION SHEET | | | PART NO. D F 2 2 A - 1 4 1 6 S C | | |
| CODE NO.(OLD) CL | | | DRAWING NO ELC4-163018 | | | PART NO CL 6 8 0 - 1 0 0 3 - 1 | | | 1/1 | | |

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