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|---|-----------------------------|--|--|--|------------------|---|------------|
| APPLICABLE STANDARD | |  | | | | | |
| RATING | OPERATING TEMPERATURE RANGE | -40 °C TO 105 °C (NOTE1) | | STORAGE TEMPERATURE RANGE | -40 °C TO 105 °C | | |
| | VOLTAGE | 250 V AC | | CURRENT | 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 | |
| ELECTRIC CHARACTERISTICS | | | | | | | |
| CONTACT RESISTANCE | | 1A DC. | | 30 mΩ MAX. | | x - | |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | | 20 mV AC MAX, 0.1 mA(DC OR 1000Hz) | | 30 mΩ MAX. | | x - | |
| INSULATION RESISTANCE | | 500 V DC | | 100 MΩ MIN. | | - - | |
| VOLTAGE PROOF | | 650 V AC FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | | - - | |
| MECHANICAL CHARACTERISTICS | | | | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | | BY STEEL GAUGE. | | INSERTION FORCE N MAX. EXTRACTION FORCE N MIN. | | - - - - | |
| MECHANICAL OPERATION | | 30 TIMES INSERTIONS AND EXTRACTIONS. | | ① CONTACT RESISTANCE : 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | x - x - | |
| VIBRATION | | FREQUENCY 20 TO 200 Hz, 43.1 m/s ² AT 3 h FOR 3 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE : 60 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | x - x - x - | |
| SHOCK | | FREQUENCY 20 TO 50 Hz, 66.6 m/s ² AT 1 h. | | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE : 60 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | x - x - x - | |
| LOCK STRENGTH | | APPLYING A PULL FORCE THE MATING AXIALLY AT 98 N MAX. | | ① DURING APPLYING,MATING COMPLETELY. ② AFTER APPLYING,NO DEFECT OF MATING PARTS. | | - - - - | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 60 °C, 90 TO 95 %, 500 h. | | ① CONTACT RESISTANCE : 60 mΩ MAX. ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | x - - - x - | |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE-40→5 TO 35→ 85→5 TO 35°C TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES. | | ① CONTACT RESISTANCE : 60 mΩ MAX. ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | x - - - x - | |
| DRY HEAT | | EXPOSED AT 105°C, 300 h. | | ① CONTACT RESISTANCE : 60 mΩ MAX. ② NO HEAVY CORROSION. | | x - x - | |
| COLD | | EXPOSED AT -55°C, 120 h. | | ① CONTACT RESISTANCE : 60 mΩ MAX. ② NO HEAVY CORROSION. | | x - x - | |
| CORROSION, SALT MIST | | EXPOSED IN 5% SALT WATER SPRAY FOR 96 h. | | ① CONTACT RESISTANCE : 60 mΩ MAX. ② NO HEAVY CORROSION. | | x - x - | |
| RESISTANCE TO HSO ³ GAS | | EXPOSED IN 500 PPM FOR 8 h. | | ① CONTACT RESISTANCE : 60 mΩ MAX. ② NO HEAVY CORROSION. | | x - x - | |
| RESISTANCE TO SOLDERING HEAT | | SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 10 s. | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | | - - | |
| SOLDERABILITY | | SOLDERED AT SOLDER TEMPERATURE, 245 °C FOR IMMERSION DURATION, 3 s. | | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | | - - | |
| | COUNT | DESCRIPTION OF REVISIONS | | DESIGNED | | CHECKED | DATE |
|  | 1 | DIS-T-00001836 | | KK. FURUKAWA | | TH. MIZUGUCHI | 17. 02. 07 |
| REMARK | | | | APPROVED | | KS. SATOH | 05. 01. 05 |
| (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT. | | | | CHECKED | | NH. NAKATA | 05. 01. 05 |
| (NOTE2) OVER 500 CYCLES : 120 mΩ MAX. | | | | DESIGNED | | NA. HARUBAYASHI | 05. 01. 05 |
| | | | | DRAWN | | TK. SHISHIKURA | 05. 01. 05 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | | DRAWING NO. | | ELC-166431-00-00 | |
|  | | SPECIFICATION SHEET | | PART NO. | | GT17S-8DS-7CF | |
| | | HIROSE ELECTRIC CO., LTD. | | CODE NO. | | CL767-0106-7-00 | |
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