


| 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 | 1 A | | |
| 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 | | 1A DC. | | SIGNAL: 30 mΩ MAX, SHIELD: 60 mΩ MAX. | | ○ | — |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | | 20 mV AC MAX, 0.1 mA(DC OR 1000Hz) | | SIGNAL: 30 mΩ MAX, SHIELD: 60 mΩ MAX. | | ○ | — |
| 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 SIGNAL:30mΩ MAX, SHIELD:60mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | ○ | — |
| 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 SIGNAL:30mΩ MAX, SHIELD:60mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | ○ | — |
| SHOCK | | FREQUENCY 20 TO 50 Hz, 66.6 m/s ² AT 1 h. | | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② SIGNAL:30mΩ MAX, SHIELD:60mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | ○ | — |
| LOCK STRENGTH | | APPLYING A PULL FORCE THE MATING AXIALLY AT Δ78.4N 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 ~ 95 %, 500 h. | | ① SIGNAL:60mΩ MAX, SHIELD:120mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | ○ | — |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE-40→5 TO 35→ 85→5 TO 35°C TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES. | | ① SIGNAL:60mΩ MAX, SHIELD:120mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | ○ | — |
| DRY HEAT | | EXPOSED AT 105°C, 300 h. | | ① SIGNAL:60mΩ MAX, SHIELD:120mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | ○ | — |
| COLD | | EXPOSED AT -55°C , 120 h. | | ① SIGNAL:60mΩ MAX, SHIELD:120mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | ○ | — |
| RESISTANCE TO SO ₂ GAS | | EXPOSED IN 500 PPM FOR 8h. | | ① SIGNAL:60mΩ MAX, SHIELD:120mΩ MAX. ② NO HEAVY CORROSION. | | ○ | — |
| 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 , 3s. | | 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-000873 | | TY. TAKAHASHI | | NH. NAKATA | 08. 07. 03 |
| REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT. | | | | APPROVED | KS. SATOH | 08. 01. 07 | |
| | | | | CHECKED | KS. SATOH | 08. 01. 07 | |
| | | | | DESIGNED | TY. IKEDA | 07. 12. 30 | |
| | | | | DRAWN | TY. IKEDA | 07. 12. 30 | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | | DRAWING NO. | | ELC4-166937-00 | |
|  | | SPECIFICATION SHEET | | PART NO. | | GT17H-4P-2DS | |
| | | HIROSE ELECTRIC CO., LTD. | | CODE NO. | | CL767-0166-9-00 | |
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