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

| 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. | X | X | |
| MARKING | CONFIRMED VISUALLY. | | X | X | |
| ELECTRIC CHARACTERISTICS | | | | | |
| CONTACT RESISTANCE | 1A DC. | SIGNAL:30 mΩ MAX, SHIELD:60mΩ MAX. | - | - | |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | 20 mV AC MAX, 0.1 mA(DC OR 1000Hz) | SIGNAL:30 mΩ MAX, SHIELD:60mΩ MAX. | - | - | |
| INSULATION RESISTANCE | 500 V DC | 100 MΩ MIN. | X | - | |
| VOLTAGE PROOF | 650 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | - | |
| 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: SIGNAL:30 mΩ 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 CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ 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 CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | - | - | |
| LOCK STRENGTH | APPLYING A PULL FORCE THE MATING AXIALLY AT 98N MAX. | ① DURING APPLYING, MATING COMPLETELY. ② AFTER APPLYING, NO DEFECT OF MATING PARTS. | X | - | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 60 °C, 90 ~ 95 %, 500 h. | ① CONTACT RESISTANCE: SIGNAL:60 mΩ 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 CONTACT RESISTANCE: SIGNAL:60 mΩ 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 CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | - | - | |
| COLD | EXPOSED AT -55°C , 120 h. | ① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | - | - | |
| CORROSION, SALT MIST | EXPOSED IN 5% SALT WATER SPRAY FOR 96 h. | ① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ② NO HEAVY CORROSION. | - | - | |
| RESISTANCE TO HSO ³ GAS | EXPOSED IN 500 PPM FOR 8h. | ① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX. ② NO HEAVY CORROSION. | - | - | |
| RESISTANCE TO SOLDERING HEAT | SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 10s. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | - | - | |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 230 °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 |
| △ | | | | | |
| REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT. | | | APPROVED | KS. SATOH | 08.07.28 |
| | | | CHECKED | NA. HARUBAYASHI | 08.07.28 |
| | | | DESIGNED | MH. SHOUJI | 08.07.25 |
| | | | DRAWN | MH. SHOUJI | 08.07.25 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-166839-00 |
| HRS | SPECIFICATION SHEET | | PART NO. | GT17HNS-4DS-HU | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL767-0150-9-00 | △ 1/1 |