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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 | 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 : 60 mΩ MAX . | | X - |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | | 20 mV AC MAX, 0.1 mA(DC OR 1000Hz) | | SIGNAL : 30 mΩ MAX, SHIELD : 60 mΩ MAX . | | X - |
| 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 . | | - - |
| MECHANICAL OPERATION | | 30 TIMES INSERTIONS AND EXTRACTIONS. | | ① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 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 : SIGNAL : 60 mΩ MAX, SHIELD : 120 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 : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | X - X - X - |
| 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 - X - |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 60 °C, 90 ~ 95 %, 500 h. | | ① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | X - 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 : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | X - X - X - |
| DRY HEAT | | EXPOSED AT 105°C, 1000 h. | | ① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | X - X - |
| COLD | | EXPOSED AT -40°C, 1000 h. | | ① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | X - X - |
| RESISTANCE TO SO ₂ GAS | | EXPOSED IN 500 PPM FOR 8 h. | | ① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO HEAVY CORROSION. | | - - X - |
| RESISTANCE TO SOLDERING HEAT | | SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 10 s. | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | | X - |
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| | COUNT | DESCRIPTION OF REVISIONS | | DESIGNED | CHECKED | DATE |
| △ | | | | | | |
| REMARK | | | | APPROVED | KI. HIROKAWA | 20200331 |
| (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT. | | | | CHECKED | EJ. WAKATSUKI | 20200327 |
| (NOTE2) TAPPLICABLE BOARD : 1.6±0.2 | | | | DESIGNED | TS. KUBOTA | 20200325 |
| | | | | DRAWN | YK. MITSUISHI | 20200313 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | | DRAWING NO. | | ELC-166859-57-00 |
|  | | SPECIFICATION SHEET | | PART NO. | GT17HN-16DP-2H (57) | |
| | | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL767-0153-7-57 | △ 1/1 |