

Apr.1.2025 Copyright 2025 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
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 | -10 °C TO +60 °C (NOTE 2) | |
| | CURRENT | 3 A | Storage Humidity Range | Relative humidity 85% max (Not dewed) | |
| | VOLTAGE | 250 V AC | Operating Humidity Range | | |
| 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. | - | - |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | 20 mV AC MAX, 0.1 mA(DC OR 1000Hz) | | 30 mΩ MAX. | - | - |
| INSULATION RESISTANCE | 500 V DC | | 100 MΩ MIN. | X | - |
| VOLTAGE PROOF | 650 V AC FOR 1 min. | | NO BREAKDOWN. | X | - |
| MECHANICAL CHARACTERISTICS | | | | | |
| MECHANICAL OPERATION | 30 TIMES INSERTIONS AND EXTRACTIONS. | | ① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | - | - |
| VIBRATION | FREQUENCY 20 TO 400 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. | - | - |
| SHOCK | FREQUENCY 20 TO 50 Hz, 66.6 m/s ² AT 3 h. | | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: 60 mΩ 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: 60 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | - | - |
| HEAT SHOCK | 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. | - | - |
| DRY HEAT | EXPOSED AT 105°C, 300 h. | | ① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | - | - |
| COLD | EXPOSED AT -40°C, 120 h. | | ① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | - | - |
| RESISTANCE TO SO ₂ GAS | EXPOSED IN 500 PPM FOR 8h. | | ① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION. | - | - |
| RESISTANCE TO SOLDERING HEAT | SPECIFIED TEMPERATURE PROFILE FOR 2CYCLES. | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | - |
| SOLDERABILITY | SOLDERED AT SPECIFIED TEMPERATURE PROFILE. | | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD. | X | - |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| REMARK (NOTE1) Include temperature rise caused by current-carrying. (NOTE2) "STORAGE" means a long-term storage state for the unused product before assembly to PCB. | | | APPROVED | HK. UMEHARA | 20200824 |
| | | | CHECKED | HH. TSUKUMO | 20200824 |
| | | | DESIGNED | DONGCHAN KIM | 20200824 |
| | | | DRAWN | AN. SAIKI | 20200824 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | ELC4-169601-00 | |
| HRS | SPECIFICATION SHEET | | PART NO. | GT25-16DS-HU | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL775-0066-9-00 | 1/1 |