

Jun.1.2026 Copyright 2026 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 | -40 °C TO 105 °C |          |
|  | VOLTAGE   | 250 V AC   | CURRENT                   | 1 A              |          |
| SPECIFICATIONS   |   |  |                           |                  |          |
| ITEM   | TEST METHOD   | REQUIREMENTS   | QT                        | AT               |          |
| <b>CONSTRUCTION</b>  |   |  |                           |                  |          |
| GENERAL EXAMINATION  | VISUALLY AND BY MEASURING INSTRUMENT.   | ACCORDING TO DRAWING.  | X                         | X                |          |
| MARKING  | CONFIRMED VISUALLY.   |  | X                         | X                |          |
| <b>ELECTRIC CHARACTERISTICS</b>                                |   |  |                           |                  |          |
| 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                         | -                |          |
| <b>MECHANICAL CHARACTERISTICS</b>                              |   |  |                           |                  |          |
| CONTACT INSERTION AND EXTRACTION FORCES                        | BY STEEL GAUGE, -.  | INSERTION FORCE - N MAX.<br>EXTRACTION FORCE - N MIN.  | -                         | -                |          |
| MECHANICAL OPERATION   | 30 TIMES INSERTIONS AND EXTRACTIONS.  | ① CONTACT RESISTANCE: SIGNAL:30 mΩ MAX, SHIELD:60mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   | -                         | -                |          |
| VIBRATION  | FREQUENCY 20 TO 200 Hz,<br>43.1 m/s <sup>2</sup> AT 3 h FOR 3 DIRECTIONS.             | ① NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>② CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | -                         | -                |          |
| SHOCK  | FREQUENCY 20 TO 50 Hz,<br>66.6 m/s <sup>2</sup> AT 1 h .                              | ① NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>② CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX.<br>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.<br>② AFTER APPLYING, NO DEFECT OF MATING PARTS.  | X                         | -                |          |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                           |   |  |                           |                  |          |
| DAMP HEAT (STEADY STATE)                                       | EXPOSED AT 60 °C, 90 ~ 95 %, 500 h.   | ① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX.<br>② INSULATION RESISTANCE:100 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.     | -                         | -                |          |
| RAPID CHANGE OF TEMPERATURE                                    | TEMPERATURE-40→5 TO 35→85→5 TO 35°C<br>TIME 30 → 5 → 30 → 5 min<br>UNDER 1000 CYCLES. | ① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX.<br>② INSULATION RESISTANCE:100 MΩ MIN.<br>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.<br>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.<br>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.<br>② NO HEAVY CORROSION.   | -                         | -                |          |
| RESISTANCE TO HSO <sup>3</sup> GAS                             | EXPOSED IN 500 PPM FOR 8h.  | ① CONTACT RESISTANCE: SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX.<br>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 IMMERSSED.  | -                         | -                |          |
|  | COUNT   | DESCRIPTION OF REVISIONS   | DESIGNED                  | CHECKED          | DATE     |
| △  |   |  |                           |                  |          |
| REMARK<br>(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   |          |
| <b>HRS</b>   | SPECIFICATION SHEET   |  | PART NO.                  | GT17HNS-4DS-HU   |          |
|  | HIROSE ELECTRIC CO., LTD.   |  | CODE NO.                  | CL767-0150-9-00  | △ 1/1    |