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 In case that the application demands a high level of reliability, such as automotive,  
 please contact a company representative for further information.

| 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.  | x                | -        |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD                      | 20 mV AC MAX, 0.1 mA(DC OR 1000Hz)   |                          |             | SIGNAL:30 mΩ MAX, SHIELD:60mΩ MAX.  | x                | -        |
| INSULATION RESISTANCE  | 500 V DC   |                          |             | 1000 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.<br>WITHDRAWAL FORCE : - N MIN.   | -                | -        |
| MECHANICAL OPERATION   | 30 TIMES INSERTIONS AND EXTRACTIONS.   |                          |             | ① CONTACT RESISTANCE:<br>SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.  | x                | -        |
| VIBRATION  | FREQUENCY 20 TO 400 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:<br>SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x                | -        |
| 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:<br>SIGNAL:60 mΩ MAX, SHIELD:120mΩ MAX.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x                | -        |
| LOCK STRENGTH  | APPLYING A PULL FORCE THE MATING AXIALLY AT 98 N MAX.                                  |                          |             | ① DURING APPLYING, MATING COMPLETELY.<br>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:<br>SIGNAL:60 mΩ MAX, SHIELD:120mΩMAX<br>② INSULATION RESISTANCE:100 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.       | x                | -        |
| 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:<br>SIGNAL:30 mΩ MAX, SHIELD:120mΩMAX<br>② INSULATION RESISTANCE:100 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.       | x                | -        |
| DRY HEAT   | EXPOSED AT 105°C, 300 h.   |                          |             | ① CONTACT RESISTANCE:<br>SIGNAL:60 mΩ MAX, SHIELD:120mΩMAX<br>② NO HEAVY CORROSION.   | x                | -        |
| COLD   | EXPOSED AT -55°C, 120 h.   |                          |             | ① CONTACT RESISTANCE:<br>SIGNAL:60 mΩ MAX, SHIELD:120mΩMAX<br>② NO HEAVY CORROSION.   | x                | -        |
| CORROSION, SALT MIST   | EXPOSED IN 5 % SALT WATER SPRAY FOR 96 h.  |                          |             | ① CONTACT RESISTANCE:<br>SIGNAL:60 mΩ MAX, SHIELD:120mΩMAX<br>② NO HEAVY CORROSION.   | x                | -        |
| RESISTANCE TO HSO <sup>3</sup> GAS                             | EXPOSED IN 500 PPM FOR 8h.   |                          |             | ① CONTACT RESISTANCE:<br>SIGNAL:60 mΩ MAX, SHIELD:120mΩMAX<br>② NO HEAVY CORROSION.   | x                | -        |
| RESISTANCE TO SOLDERING HEAT                                   | SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 10s.                               |                          |             | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.   | x                | -        |
| SOLDERABILITY  | SOLDERED AT SOLDER TEMPERATURE, 245°C FOR IMMERSION DURATION, 3 s.                     |                          |             | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.  | x                | -        |
|  | COUNT  | DESCRIPTION OF REVISIONS | DESIGNED    | CHECKED   | DATE             |          |
|  |  |                          |             |   |                  |          |
| REMARK<br>(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.   |  |                          |             | APPROVED  | AR. SHIRAI       | 10.02.02 |
|  |  |                          |             | CHECKED   | AR. SHIRAI       | 10.02.02 |
|  |  |                          |             | DESIGNED  | NA. HARUBAYASHI  | 10.02.01 |
|  |  |                          |             | DRAWN   | HA. SHIMIZU      | 10.02.01 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |  |                          | DRAWING NO. | ELC4-167242-02  |                  |          |
|  | SPECIFICATION SHEET  |                          | PART NO.    | GT17HN-4DP-2DS (A)  |                  |          |
|  | HIROSE ELECTRIC CO., LTD.  |                          | CODE NO.    | CL767-0213-7-00   |                  | 1/1      |