

|  |                             |  |             |   |                           |
|--|-----------------------------|--|-------------|---|---------------------------|
| 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   | 3 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.   |             | 30 mΩ MAX .   | x -                       |
| CONTACT RESISTANCE   |                             | 20 mV AC MAX, 0.1 mA(DC OR 1000Hz)   |             | 30 mΩ MAX .   | x -                       |
| MILLIVOLT LEVEL METHOD   |                             |  |             |   |                           |
| INSULATION RESISTANCE  |                             | 500 V DC.  |             | 1000 MΩ MIN.  | x -                       |
| VOLTAGE PROOF  |                             | 1000 V AC FOR 1 min.   |             | NO FLASHOVER OR BREAKDOWN.  | x -                       |
| MECHANICAL CHARACTERISTICS                                     |                             |  |             |   |                           |
| TERMINAL INSERTION AND EXTRACTION FORCE                        |                             | MEASURING AT 100mm/min.  |             | 4.9N MAX.   | x -                       |
| MECHANICAL OPERATION   |                             | 30 TIMES INSERTIONS AND EXTRACTIONS.   |             | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.  | x -<br>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: 60 mΩ MAX.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x -<br>x -<br>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: 60 mΩ MAX.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x -<br>x -<br>x -         |
| 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 -<br>x -                |
| ENVIRONMENTAL CHARACTERISTICS                                  |                             |  |             |   |                           |
| DAMP HEAT (STEADY STATE)                                       |                             | EXPOSED AT 60 °C, 90 ~ 95 %, 500 h.  |             | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② INSULATION RESISTANCE:100 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.     | x -<br>x -<br>x -         |
| RAPID CHANGE OF TEMPERATURE                                    |                             | TEMPERATURE- 40 →5 TO 35 →120 →5 TO 35°C<br>TIME 30 → 5 → 30 → 5 min<br>UNDER 1000 CYCLES. |             | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② INSULATION RESISTANCE:100 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.     | x -<br>x -<br>x -         |
| DRY HEAT   |                             | EXPOSED AT 105°C, 300 h.   |             | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.  | x -<br>x -                |
| COLD   |                             | EXPOSED AT -40°C , 120 h.  |             | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.  | x -<br>x -                |
| RESISTANCE TO SO <sub>2</sub> GAS                              |                             | EXPOSED IN 500 PPM FOR 8h.   |             | ① CONTACT RESISTANCE: 60 mΩ MAX.  | x -                       |
| 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 IMMERSIED.                             | x -                       |
|  | COUNT                       | DESCRIPTION OF REVISIONS   | DESIGNED    | CHECKED   | DATE                      |
| REMARK<br>(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.   |                             |  |             | APPROVED  | AR. SHIRAI 16. 09. 09     |
|  |                             |  |             | CHECKED   | HS. OZAWA 16. 09. 09      |
|  |                             |  |             | DESIGNED  | TK. SHISHIKURA 16. 09. 09 |
|  |                             |  |             | DRAWN   | TK. SHISHIKURA 16. 09. 09 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |                             |  | DRAWING NO. |   | ELC-358752-99-00          |
| HRS  | SPECIFICATION SHEET         |  | PART NO.    | GT25H2-24DP-2. 2H (99)  |                           |
|  | HIROSE ELECTRIC CO., LTD.   |  | CODE NO.    | CL775-0081-2-99   | △ 1/1                     |