

| 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                                     |                             |                                                                                        |  |                                                                                                                                                              |                         |                  |      |
| MECHANICAL OPERATION                                           |                             | 30 TIMES INSERTIONS AND EXTRACTIONS.                                                   |  | ① CONTACT RESISTANCE :<br>SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX .<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                            |                         | x                | —    |
| 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 :<br>SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ 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 : 120 mΩ MAX .<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. |                         | 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                | —    |
| ENVIRONMENTAL CHARACTERISTICS                                  |                             |                                                                                        |  |                                                                                                                                                              |                         |                  |      |
| DAMP HEAT (STEADY STATE)                                       |                             | EXPOSED AT 60 °C, 90 ~ 95 %, 500 h.                                                    |  | ① CONTACT RESISTANCE :<br>SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX .<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 : 60 mΩ MAX, SHIELD : 120 mΩ MAX .<br>② INSULATION RESISTANCE : 100 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   |                         | x                | —    |
| DRY HEAT                                                       |                             | EXPOSED AT 105°C, 1000 h.                                                              |  | ① CONTACT RESISTANCE :<br>SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX .<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                            |                         | x                | —    |
| COLD                                                           |                             | EXPOSED AT -40°C, 1000 h.                                                              |  | ① CONTACT RESISTANCE :<br>SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX .<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                            |                         | x                | —    |
| RESISTANCE TO SO <sub>2</sub> GAS                              |                             | EXPOSED IN 500 PPM FOR 8 h.                                                            |  | ① CONTACT RESISTANCE :<br>SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX .<br>② NO HEAVY CORROSION.                                                                 |                         | x                | —    |
| RESISTANCE TO SOLDERING HEAT                                   |                             | SPECIFIED TEMPERATURE PROFILE FOR 2 TIMES.                                             |  | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.                                                                                              |                         | x                | —    |
|                                                                |                             |                                                                                        |  |                                                                                                                                                              |                         |                  |      |
|                                                                | COUNT                       | DESCRIPTION OF REVISIONS                                                               |  | DESIGNED                                                                                                                                                     |                         | CHECKED          | DATE |
| △                                                              |                             |                                                                                        |  |                                                                                                                                                              |                         |                  |      |
| REMARK                                                         |                             |                                                                                        |  | APPROVED                                                                                                                                                     | KI. HIROKAWA            | 20200409         |      |
| (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.             |                             |                                                                                        |  | CHECKED                                                                                                                                                      | EJ. WAKATSUKI           | 20200408         |      |
| (NOTE2) APPLICABLE BOARD : 1.6±0.2                             |                             |                                                                                        |  | DESIGNED                                                                                                                                                     | TS. KUBOTA              | 20200325         |      |
|                                                                |                             |                                                                                        |  | DRAWN                                                                                                                                                        | YK. MITSUISHI           | 20200319         |      |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |                             |                                                                                        |  | DRAWING NO.                                                                                                                                                  |                         | ELC-168892-58-00 |      |
| <b>HRS</b>                                                     | SPECIFICATION SHEET         |                                                                                        |  | PART NO.                                                                                                                                                     | GT17HN2-4DP-2H (A) (58) |                  |      |
|                                                                | HIROSE ELECTRIC CO., LTD.   |                                                                                        |  | CODE NO.                                                                                                                                                     | CL767-0267-6-58         | △                | 1/1  |