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|-----------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------|-------------|
| APPLICABLE STANDARD                                                                                 |                             |                                                                                                      |                                                                                                                             |                  |             |
| RATING                                                                                              | OPERATING TEMPERATURE RANGE | -40 °C TO 105 °C (NOTE1)                                                                             | STORAGE TEMPERATURE RANGE                                                                                                   | -40 °C TO 105 °C |             |
|                                                                                                     | VOLTAGE                     | 50 V DC                                                                                              | 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                                                                                  |                             | 1 A DC.                                                                                              | 50 mΩ MAX.                                                                                                                  | —                | —           |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD                                                           |                             | 20 mV AC MAX, 0.1 mA(DC OR 1000Hz)                                                                   | 50 mΩ MAX.                                                                                                                  | —                | —           |
| INSULATION RESISTANCE                                                                               |                             | 500 V DC                                                                                             | 100 MΩ MIN.                                                                                                                 | X                | —           |
| VOLTAGE PROOF                                                                                       |                             | 125 V AC FOR 1 min.                                                                                  | NO FLASHOVER OR BREAKDOWN.                                                                                                  | X                | —           |
| MECHANICAL CHARACTERISTICS                                                                          |                             |                                                                                                      |                                                                                                                             |                  |             |
| MECHANICAL OPERATION                                                                                |                             | 30 TIMES INSERTIONS AND EXTRACTIONS.                                                                 | ① CONTACT RESISTANCE: 100 mΩ MAX.<br>② NO DAMAGE, CRACK AND DISTORTION OF PARTS.                                            | —<br>X           | —<br>—      |
| VIBRATION                                                                                           |                             | FREQUENCY AT 20 TO 200 Hz,<br>ACCELERATION AT 43.1 m/s <sup>2</sup> FOR 3 h ON EACH 3 DIRECTIONS.    | ① NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>② CONTACT RESISTANCE: 100 mΩ MAX.<br>③ NO DAMAGE, CRACK AND DISTORTION OF PARTS. | —<br>—<br>X      | —<br>—<br>— |
| SHOCK                                                                                               |                             | FREQUENCY AT 20 TO 50 Hz,<br>ACCELERATION AT 66.6 m/s <sup>2</sup> FOR 1 h.                          | ① NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>② CONTACT RESISTANCE: 100 mΩ MAX.<br>③ NO DAMAGE, CRACK AND DISTORTION OF PARTS. | —<br>—<br>X      | —<br>—<br>— |
| 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.                                         | —<br>—           | —<br>—      |
| ENVIRONMENTAL CHARACTERISTICS                                                                       |                             |                                                                                                      |                                                                                                                             |                  |             |
| DAMP HEAT (STEADY STATE)                                                                            |                             | EXPOSED AT 60 °C, 90 ~ 95 % RH, FOR 500 h.                                                           | ① CONTACT RESISTANCE: 100 mΩ MAX.<br>② INSULATION RESISTANCE:100 MΩ MIN.<br>③ NO DAMAGE, CRACK AND DISTORTION OF PARTS.     | —<br>X<br>X      | —<br>—<br>— |
| RAPID CHANGE OF TEMPERATURE                                                                         |                             | TEMPERATURE-40 °C→ROOM TEMP.→ 85 °C<br>→ROOM TEMP.<br>TIME 30 → 5 → 30 → 5 min<br>UNDER 1000 CYCLES. | ① CONTACT RESISTANCE: 100 mΩ MAX.<br>② INSULATION RESISTANCE:100 MΩ MIN.<br>③ NO DAMAGE, CRACK AND DISTORTION OF PARTS.     | —<br>X<br>X      | —<br>—<br>— |
| DRY HEAT                                                                                            |                             | EXPOSED AT 105 °C FOR 300 h.                                                                         | ① CONTACT RESISTANCE: 100 mΩ MAX.<br>② NO DAMAGE, CRACK AND DISTORTION OF PARTS.                                            | —<br>X           | —<br>—      |
| COLD                                                                                                |                             | EXPOSED AT -40 °C FOR 120 h.                                                                         | ① CONTACT RESISTANCE: 100 mΩ MAX.<br>② NO DAMAGE, CRACK AND DISTORTION OF PARTS.                                            | —<br>X           | —<br>—      |
| RESISTANCE TO SO <sub>2</sub> GAS                                                                   |                             | EXPOSED IN 25 ppm FOR 96 h.                                                                          | ① CONTACT RESISTANCE: 100 mΩ MAX.<br>② NO HARMFUL RUST.                                                                     | —<br>—           | —<br>—      |
|                                                                                                     |                             |                                                                                                      |                                                                                                                             |                  |             |
|                                                                                                     | COUNT                       | DESCRIPTION OF REVISIONS                                                                             | DESIGNED                                                                                                                    | CHECKED          | DATE        |
| △                                                                                                   |                             |                                                                                                      |                                                                                                                             |                  |             |
| REMARK                                                                                              |                             |                                                                                                      | APPROVED                                                                                                                    | KI. HIROKAWA     | 18.05.31    |
| (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.                                                  |                             |                                                                                                      | CHECKED                                                                                                                     | MO. OKADA        | 18.05.31    |
| (NOTE2) CONTACT RESISTANCE OF OUTER CONDUCTOR AFTER ENVIRONMENTAL AND DURABILITY TEST : 150 mΩ MAX. |                             |                                                                                                      | DESIGNED                                                                                                                    | MH. YAMAGUCHI    | 18.05.31    |
|                                                                                                     |                             |                                                                                                      | DRAWN                                                                                                                       | SK. HANAWA       | 18.05.30    |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                      |                             |                                                                                                      | DRAWING NO.                                                                                                                 | ELC-169949-00-00 |             |
| HRS                                                                                                 | SPECIFICATION SHEET         |                                                                                                      | PART NO.                                                                                                                    | GT36-1A/1S-CV    |             |
|                                                                                                     | HIROSE ELECTRIC CO., LTD.   |                                                                                                      | CODE NO.                                                                                                                    | CL786-0040-9-00  | △ 1/1       |