

| COUNT  | DESCRIPTION OF REVISIONS     | BY   | CHKD | DATE     | COUNT  | DESCRIPTION OF REVISIONS | BY                   | CHKD                     | DATE     |
|--|------------------------------|--|------|----------|--|--------------------------|----------------------|--------------------------|----------|
| △ 1  | DIS-T-0143 (RE-T-0183)       | T.S  | N.N  | 98. 9. 3 |  |                          |                      |                          |          |
| APPLICABLE STANDARD  |                              |  |      |          |  |                          |                      |                          |          |
| RATING   | OPERATING TEMPERATURES RANGE | -30℃ TO 105℃ (NOTE1)   |      |          | STORAGE TEMPERATURE RANGE  | -40℃ TO +105℃            |                      |                          |          |
|  | 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.  |                          |                      | ○                        | ○        |
| MARKING  |                              | CONFIRMED VISUALLY.  |      |          |  |                          |                      | ○                        | ○        |
| ELECTRICAL CHARACTERISTICS                                     |                              |  |      |          |  |                          |                      |                          |          |
| CONTACT RESISTANCE   |                              | 1 A DC.  |      |          | 30 mΩ MAX.   |                          |                      | ○                        | —        |
| CONTACT RASISTANCE   |                              | 20 mV AC MAX, 0.1 mA (DC OR 1000 Hz)   |      |          | 30 mΩ MAX.   |                          |                      | ○                        | —        |
| MILLIVOLT LEVEL METHOD   |                              |  |      |          |  |                          |                      |                          |          |
| INSULATION RESISTANCE  |                              | — V DC   |      |          | 100 MΩ MIN.  |                          |                      | —                        | —        |
| VOLTAGE PROOF  |                              | — V AC FOR 1 MIN   |      |          | NO FLASHOVER OR BREAKDOWN.   |                          |                      | —                        | —        |
| MECHANICAL CHARACTERISTICS                                     |                              |  |      |          |  |                          |                      |                          |          |
| CONTACT INSERTION AND EXTRACTION FORCES                        |                              | 0.8×0.64 BY STEEL GAUGE.   |      |          | INSERTION FORCE 3.8 N MAX.<br>EXTRACTION FORCE 0.6~△3.8 N MIN.   |                          |                      | ○                        | —        |
| MECHANICAL OPERATION   |                              | 30 TIMES INSERTIONS AND EXTRACTIONS.   |      |          | ① CONTACT RESISTANCE:60 mΩ MAX.<br>② NO DAMAGE. CRACK AND LOOSENESS OF PARTS.  |                          |                      | ○                        | —        |
| VIBRATION  |                              | FREQUENCY 20 TO 200 Hz,<br>AMPLITUDE - mm, 43.1 m/S <sup>2</sup> AT 3 h<br>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. |                          |                      | ○                        | —        |
| 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. |                          |                      | ○                        | —        |
| LOCK STRENGTH  |                              | APPLYING A PULL FORCE THE MATING AXIALLY AT — N MAX.   |      |          | ① DURING APPLYING, MATING COMPLETELY.<br>② AFTER APPLYING, NO DEFECT OF MATING PARTS.                                    |                          |                      | —                        | —        |
| ENVIRONMENTAL CHARACTERISTICS                                  |                              |  |      |          |  |                          |                      |                          |          |
| DAMP HEAT (STEADY STATE)                                       |                              | EXPOSED AT 60 ℃, 90 TO 95 %, 500 h.  |      |          | ① CONTACT RESISTANCE:60 mΩ MAX.<br>② INSULATION RESISTANCE:100MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.      |                          |                      | ○                        | —        |
| RAPID CHANGE OF TEMPERATURE                                    |                              | TEMPERATURE -40 → 5 TO 35 → 85 → 5 TO 35 ℃<br>TIME 30 → 5 → 30 → 5 MIN<br>UNDER 1000 CYCLES. |      |          | ① CONTACT RESISTANCE:60 mΩ MAX.<br>② INSULATION RESISTANCE:100MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PART.       |                          |                      | ○                        | —        |
| DRY HEAT   |                              | EXPOSED AT 105 ℃, 300 h.   |      |          | ① CONTACT RESISTANCE:60 mΩ MAX.<br>② NO HEAVY CORROSION.   |                          |                      | ○                        | —        |
| COLD   |                              | EXPOSED AT -55 ℃, 120 h.   |      |          | ① CONTACT RESISTANCE:60 mΩ MAX.<br>② NO HEAVY CORROSION.   |                          |                      | ○                        | —        |
| CORROSION, SALT MIST   |                              | EXPOSED IN 5% SALT WATER SPRAY FOR 96 h.   |      |          | ① CONTACT RESISTANCE:60 mΩ MAX.<br>② NO HEAVY CORROSION.   |                          |                      | ○                        | —        |
| RESISTANCE TO HSO <sup>d</sup> GAS                             |                              | EXPOSED IN 500 PPM FOR 8 h.  |      |          | ① CONTACT RESISTANCE:60 mΩ MAX.<br>② NO HEAVY CORROSION.   |                          |                      | ○                        | —        |
| RESISTANCE TO SOLDERING HEAT                                   |                              | SOLDER TEMPERATURE, 260 ℃ FOR IMMERSION, DURATION, 10 s.                                     |      |          | NO DEFORMATION IN CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.  |                          |                      | —                        | —        |
| SOLDERABILITY  |                              | SOLDERED AT SOLDER TEMPERATURE, 230 ℃ FOR IMMERSION DURATION, 3 S                            |      |          | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.                             |                          |                      | —                        | —        |
| REMARKS  |                              |  |      |          | DRAWN  | DESIGNED                 | CHECKED              | APPROVD                  | RELEASED |
| NOTE1 INCLUDE THE TEMPERATURE RISING BY CURRENT.               |                              |  |      |          | T. SHISHIKURA<br>97.10.6   | T. SHISHIKURA<br>97.10.6 | N. NAKATA<br>97.10.8 | M. YAMAMOTO<br>97.10.9   |          |
| Note QT:Qualification Test AT:Assurance Test ○:Applicable Test |                              |  |      |          |  |                          |                      |                          |          |
| HRS  |                              | HIROSE ELECTRIC CO., LTD.  |      |          | SPECIFICATION SHEET  |                          |                      | PART NO.<br>GT17-2022SCF |          |
| CODE NO. (OLD)   |                              | DRAWING NO.<br>ELC4-165416   |      |          | CODE NO.<br>CL767-0009-0   |                          |                      | 1/1                      |          |