

| APPLICABLE STANDARD  |                             |  |  |   |                                |                        |      |
|--|-----------------------------|--|--|---|--------------------------------|------------------------|------|
| RATING   | OPERATING TEMPERATURE RANGE | -55 °C TO +85 °C   |  | STORAGE TEMPERATURE RANGE   | -10 °C TO +60 °C               |                        |      |
|  | VOLTAGE                     | AC 300 V   |  | OPERATING HUMIDITY RANGE  | 85%MAXIMUM<br>(NON-CONDENSING) |                        |      |
|  | CURRENT                     | 3 A  |  | STORAGE HUMIDITY RANGE  |                                |                        |      |
| 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   |                             | 100 mA (DC OR 1000 Hz).  |  | 20 mΩ MAX.  |                                | X                      | —    |
| INSULATION RESISTANCE  |                             | 500 V DC.  |  | 1000 MΩ MIN.  |                                | X                      | —    |
| VOLTAGE PROOF  |                             | 1000 V AC FOR 1 min. (ADJACENT CONTACTS)   |  | NO FLASHOVER OR BREAKDOWN.  |                                | X                      | —    |
|  |                             | 500 V AC FOR 1 min. (OPPOSITE CONTACTS)  |  |   |                                | X                      | —    |
| MECHANICAL CHARACTERISTICS                                       |                             |  |  |   |                                |                        |      |
| CONTACT INSERTION AND EXTRACTION FORCES                          |                             | t=1.575±0.002mm BY STEEL GAUGE.  |  | INSERTION FORCE 2.94 N MAX.<br>EXTRACTION FARCE 0.294 N MIN.                          |                                | X                      | —    |
| MECHANICAL OPERATION   |                             | 500 TIMES INSERTIONS AND EXTRACTIONS.  |  | ① CONTACT RESISTANCE: 20 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.       |                                | X                      | —    |
| VIBRATION  |                             | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s <sup>2</sup> AT 2 h, IN 3 DIRECTIONS. |  | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. |                                | X                      | —    |
| SHOCK  |                             | 490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIME IN 3 DIRECTION.                     |  |   |                                | X                      | —    |
| ENVIRONMENTAL CHARACTERISTICS                                    |                             |  |  |   |                                |                        |      |
| RAPID CHANGE OF TEMPERATURE                                      |                             | TEMPERATURE -65→ 15~35 →+125→15~35°C<br>TIME 30→ 10~15 → 30 →10~15 min<br>UNDER 5 CYCLES.    |  | ① CONTACT RESISTANCE: 20 mΩ MAX.<br>② INSULATION RESISTANCE: 1000 MΩ MIN.             |                                | X                      | —    |
| DAMP HEAT (STEADY STATE)   |                             | EXPOSED AT 40±2 °C, 90~95 %, 96 h.   |  | ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.   |                                | X                      | —    |
| CORROSION SALT MIST  |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.  |  | ① CONTACT RESISTANCE: 20 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.       |                                | X                      | —    |
|  |                             |  |  |   |                                |                        |      |
|  | COUNT                       | DESCRIPTION OF REVISIONS   |  | DESIGNED  |                                | CHECKED                | DATE |
| △  |                             |  |  |   |                                |                        |      |
| REMARK<br><br>Unless otherwise specified, refer to MIL-STD-1344. |                             |  |  | APPROVED  | HT. YAMAGUCHI                  | 18. 06. 25             |      |
|  |                             |  |  | CHECKED   | HT. YAMAGUCHI                  | 18. 06. 25             |      |
|  |                             |  |  | DESIGNED  | HR. NAGAYASU                   | 18. 06. 25             |      |
|  |                             |  |  | DRAWN   | TS. HORI                       | 18. 06. 25             |      |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test   |                             |  |  | DRAWING NO.   |                                | ELC-383712-00-00       |      |
| HRS  |                             | SPECIFICATION SHEET  |  | PART NO.  |                                | CR22*—**D-2. 54DS (70) |      |
|  |                             | HIROSE ELECTRIC CO., LTD.  |  | CODE NO.  |                                | △                      | 1/1  |