

| APPLICABLE STANDARD  |                             |   |                           |   |                |          |
|--|-----------------------------|---|---------------------------|---|----------------|----------|
| RATING   | OPERATING TEMPERATURE RANGE | -55 °C TO +85 °C  | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C  |                |          |
|  | VOLTAGE                     | 300 V AC  | OPERATING HUMIDITY RANGE  | 85 % MAX  |                |          |
|  | CURRENT                     | 2 A   | APPLICABLE CABLE          | (NON-CONDENSING)  |                |          |
| 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  |                             | 100 V DC.   |                           | 10 <sup>6</sup> MΩ MIN.   | X              | -        |
| VOLTAGE PROOF  |                             | 1000 V AC FOR 1 min.  |                           | NO FLASHOVER OR BREAKDOWN.  | X              | -        |
| MECHANICAL CHARACTERISTICS                                       |                             |   |                           |   |                |          |
| 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,<br>SINGLE AMPLITUDE 0.75 mm, - m/s <sup>2</sup><br>FOR 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<br>FOR 3 TIME IN 3 DIRECTION.                        |                           |   | X              | -        |
| ENVIRONMENTAL CHARACTERISTICS                                    |                             |   |                           |   |                |          |
| DAMP HEAT (STEADY STATE)   |                             | EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h.   |                           | 1) CONTACT RESISTANCE: 20 mΩ MAX.<br>2) INSULATION RESISTANCE:                          | X              | -        |
| RAPID CHANGE OF TEMPERATURE                                      |                             | TEMPERATURE -65→15 TO 35→+125→15 TO 35°C<br>TIME 30→ MAX5 → 30 →MAX5min.<br>UNDER 5 CYCLES.         |                           | 10 <sup>6</sup> MΩ MIN.<br>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 HEAVY CORROSION.                             | X              | -        |
|  |                             |   |                           |   |                |          |
|  | COUNT                       | DESCRIPTION OF REVISIONS  | DESIGNED                  | CHECKED   | DATE           |          |
| △  |                             |   |                           |   |                |          |
| REMARK<br><br>Unless otherwise specified, refer to MIL-STD-1344. |                             |   |                           | APPROVED  | KI.AKIYAMA     | 05.08.30 |
|  |                             |   |                           | CHECKED   | SI.TOMIOKA     | 05.08.30 |
|  |                             |   |                           | DESIGNED  | HT.SUGIMURA    | 05.08.29 |
|  |                             |   |                           | DRAWN   | HM.SAITO       | 05.08.29 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test   |                             |   | DRAWING NO.               |   | ELC4-154140-01 |          |
| <b>HRS</b>   | SPECIFICATION SHEET         |   | PART NO.                  | PCN10-**P-2. 54DS (72)  |                |          |
|  | HIROSE ELECTRIC CO., LTD.   |   | CODE NO.                  |   | △              | 1/1      |