

| COUNT  | DESCRIPTION OF REVISIONS    | BY   | CHKD | DATE | COUNT   | DESCRIPTION OF REVISIONS       | BY       | CHKD     | DATE     |
|--|-----------------------------|--|------|------|---|--------------------------------|----------|----------|----------|
| △  |                             |  |      |      | △   |                                |          |          |          |
| △  |                             |  |      |      | △   |                                |          |          |          |
| <b>APPLICABLE STANDARD</b>   |                             |  |      |      |   |                                |          |          |          |
| RATING   | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C <sup>(1)</sup>   |      |      | STORAGE TEMPERATURE RANGE   | -10 °C TO 60 °C <sup>(2)</sup> |          |          |          |
|  | VOLTAGE                     | 125 V AC   |      |      | OPERATING HUMIDITY RANGE  | 40 % TO 80 %                   |          |          |          |
|  | CURRENT                     | 0.5 A  |      |      | STORAGE HUMIDITY RANGE  | 40 % TO 70 % <sup>(2)</sup>    |          |          |          |
| <b>SPECIFICATIONS</b>  |                             |  |      |      |   |                                |          |          |          |
| ITEM   |                             | TEST METHOD  |      |      | REQUIREMENTS  |                                |          | QT       | AT       |
| <b>CONSTRUCTION</b>  |                             |  |      |      |   |                                |          |          |          |
| GENERAL EXAMINATION  |                             | VISUALLY AND BY MEASURING INSTRUMENT.  |      |      | ACCORDING TO DRAWING.   |                                |          | ×        | ×        |
| MARKING  |                             | CONFIRMED VISUALLY.  |      |      |   |                                |          | ×        | ×        |
| <b>ELECTRICAL CHARACTERISTICS</b>  |                             |  |      |      |   |                                |          |          |          |
| CONTACT RESISTANCE   |                             | 100 mA (DC OR 1000 Hz).  |      |      | 45 mΩ MAX.  |                                |          | ×        |          |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD  |                             | 20 mV MAX, 1 mA(DC OR 1000Hz)  |      |      | 55 mΩ MAX.  |                                |          | ×        |          |
| INSULATION RESISTANCE  |                             | 250 V DC.  |      |      | 100 MΩ MIN.   |                                |          | ×        |          |
| VOLTAGE PROOF  |                             | 300 V AC FOR 1 min.  |      |      | NO FLASHOVER OR BREAKDOWN.  |                                |          | ×        |          |
| <b>MECHANICAL CHARACTERISTICS</b>  |                             |  |      |      |   |                                |          |          |          |
| MECHANICAL OPERATION   |                             | 500 TIMES INSERTIONS AND EXTRACTIONS.  |      |      | ① CONTACT RESISTANCE: 55 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.              |                                |          | ×        |          |
| VIBRATION  |                             | FREQUENCY 10 TO 55 Hz,<br>AMPLITUDE : 1.52 mm,<br>AT 2 h FOR 3 DIRECTION.  |      |      | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.        |                                |          | ×        |          |
| SHOCK  |                             | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.                                     |      |      |   |                                |          | ×        |          |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>   |                             |  |      |      |   |                                |          |          |          |
| DAMP HEAT (STEADY STATE)   |                             | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.   |      |      | ① CONTACT RESISTANCE: 55 mΩ MAX.<br>② INSULATION RESISTANCE: 100 MΩ MIN.                    |                                |          | ×        |          |
| RAPID CHANGE OF TEMPERATURE  |                             | TEMPERATURE-55→+15~+35→+85→+15~+35°C<br>TIME 30 → 10~15 → 30 → 10~15 min<br>UNDER 5 CYCLES.                        |      |      | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.  |                                |          | ×        |          |
| CORROSION SALT MIST  |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.  |      |      | ① CONTACT RESISTANCE: 55 mΩ MAX.<br>② NO HEAVY CORROSION.                                   |                                |          | ×        |          |
| HYDROGEN SULPHIDE  |                             | EXPOSED IN 3 PPM FOR 96 h.<br>(TEST STANDARD: JEIDA-38)  |      |      |   |                                |          | ×        |          |
| RESISTANCE TO SOLDERING HEAT   |                             | 1) SOLDER BATH: SOLDER TEMPERATURE, 260±5°C FOR IMMERSION, DURATION, 10±1s.<br>2) SOLDERING IRONS : 360°C FOR 5 s. |      |      | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.                              |                                |          | ×        |          |
| SOLDRABILITY   |                             | SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION, 2s.   |      |      | A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. |                                |          | ×        |          |
| <b>REMARKS</b>   |                             |  |      |      |   |                                |          |          |          |
| 1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED.<br>2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. |                             |  |      |      | DRAWN   | DESIGNED                       | CHECKED  | APPROVED | RELEASED |
|  |                             |  |      |      | I.OKAYAMA   | K.NAKAMURA                     | H. Okawa | H. Okawa |          |
| Unless otherwise specified, refer to MIL-STD-1344.   |                             |  |      |      | 04.06.09  | 04.06.09                       | 04.06.09 | 04.06.09 |          |
| Note QT: Qualification Test AT: Assurance Test X: Applicable Test  |                             |  |      |      |   |                                |          |          |          |
| <b>HS HIROSE ELECTRIC CO., LTD.</b>  |                             |  |      |      | <b>SPECIFICATION SHEET</b>  |                                |          |          |          |
| CODE NO.(OLD)  |                             |  |      |      | PART NO.  |                                |          |          |          |
| CL   |                             |  |      |      | FX2C-**P-1. 27DSA (71)  |                                |          |          |          |
| DRAWING NO.  |                             |  |      |      | CODE NO.  |                                |          |          |          |
| ELC4 - 083045-21   |                             |  |      |      | CL 572  |                                |          |          |          |
|  |                             |  |      |      | 1/1   |                                |          |          |          |