

| APPLICABLE STANDARD                                                                                                                                                                 |                                                                                                                | SPECIFICATIONS                 |                                                                                                                        |                                                                                       |                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 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>                                                           |                                                                         |
| CONSTRUCTION                                                                                                                                                                        |                                                                                                                |                                |                                                                                                                        |                                                                                       |                                                                         |
| GENERAL EXAMINATION                                                                                                                                                                 | VISUALLY AND BY MEASURING INSTRUMENT.                                                                          |                                | ACCORDING TO DRAWING.                                                                                                  |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| MARKING                                                                                                                                                                             | CONFIRMED VISUALLY.                                                                                            |                                |                                                                                                                        |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| ELECTRIC CHARACTERISTICS                                                                                                                                                            |                                                                                                                |                                |                                                                                                                        |                                                                                       |                                                                         |
| CONTACT RESISTANCE                                                                                                                                                                  | 100 mA (DC OR 1000 Hz).                                                                                        |                                | 45 mΩ MAX.                                                                                                             |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| CONTACT RESISTANCE                                                                                                                                                                  | 20 mV MAX, 1 mA(DC OR 1000Hz)                                                                                  |                                | 55 mΩ MAX.                                                                                                             |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| MILLIVOLT LEVEL METHOD                                                                                                                                                              |                                                                                                                |                                |                                                                                                                        |                                                                                       |                                                                         |
| INSULATION RESISTANCE                                                                                                                                                               | 250 V DC.                                                                                                      |                                | 100 MΩ MIN.                                                                                                            |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| VOLTAGE PROOF                                                                                                                                                                       | 300 V AC FOR 1 min.                                                                                            |                                | NO FLASHOVER OR BREAKDOWN.                                                                                             |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| MECHANICAL CHARACTERISTICS                                                                                                                                                          |                                                                                                                |                                |                                                                                                                        |                                                                                       |                                                                         |
| MECHANICAL OPERATION                                                                                                                                                                | 500 TIMES INSERTIONS AND EXTRACTIONS.                                                                          |                                | ① CONTACT RESISTANCE: 55 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                         |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| 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.                                   |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| SHOCK                                                                                                                                                                               | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.                                 |                                |                                                                                                                        |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| ENVIRONMENTAL CHARACTERISTICS                                                                                                                                                       |                                                                                                                |                                |                                                                                                                        |                                                                                       |                                                                         |
| 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.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| 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.                    |                                |                                                                                                                        |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| CORROSION SALT MIST                                                                                                                                                                 | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.                                                                      |                                | ① CONTACT RESISTANCE: 55 mΩ MAX.<br>② NO HEAVY CORROSION.                                                              |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| HYDROGEN SULPHIDE                                                                                                                                                                   | EXPOSED IN 3 PPM FOR 96 h.<br>(TEST STANDARD: JEIDA-38)                                                        |                                |                                                                                                                        |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| 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.                                                         |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| SOLDABILITY                                                                                                                                                                         | SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION, 2s.                                             |                                | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.                           |                                                                                       | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| REMARK <sup>(1)</sup> TEMPERATURE RISE INCLUDED WHEN ENERGIZED.<br><sup>(2)</sup> THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. |                                                                                                                |                                |                                                                                                                        |                                                                                       |                                                                         |
| Unless otherwise specified, refer to MIL-STD-1344.                                                                                                                                  |                                                                                                                | APPROVED HS.OKAWA 06.10.20     |                                                                                                                        |                                                                                       |                                                                         |
|                                                                                                                                                                                     |                                                                                                                | CHECKED HS.OZAWA 06.10.20      |                                                                                                                        |                                                                                       |                                                                         |
|                                                                                                                                                                                     |                                                                                                                | DESIGNED KY.NAKAMURA 06.10.19  |                                                                                                                        |                                                                                       |                                                                         |
|                                                                                                                                                                                     |                                                                                                                | DRAWN AK.SUZUKAWA 06.10.19     |                                                                                                                        |                                                                                       |                                                                         |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                      |                                                                                                                |                                | DRAWING NO.                                                                                                            |                                                                                       | ELC4-083293-21                                                          |
|                                                                                                  |                                                                                                                | SPECIFICATION SHEET            |                                                                                                                        | PART NO.                                                                              | FX2-*P-1.27DS(71)                                                       |
|                                                                                                                                                                                     |                                                                                                                | HIROSE ELECTRIC CO., LTD.      |                                                                                                                        | CODE NO.                                                                              | CL572                                                                   |
|                                                                                                                                                                                     |                                                                                                                |                                |                                                                                                                        |  | 1/1                                                                     |