

| APPLICABLE STANDARD   |   |                          |  |                                |            |
|---|---|--------------------------|--|--------------------------------|------------|
| RATING  | OPERATING TEMPERATURE RANGE   | -55 °C TO 85 °C          | STORAGE TEMPERATURE RANGE  | -10 °C TO 60 °C <sup>(3)</sup> |            |
|   | VOLTAGE   | 100 V AC                 | OPERATING HUMIDITY RANGE   | 40 % TO 80 %                   |            |
|   | CURRENT   | 0.4 A                    | STORAGE HUMIDITY RANGE   | 40 % TO 70 % <sup>(3)</sup>    |            |
| SPECIFICATIONS  |   |                          |  |                                |            |
| ITEM  | TEST METHOD   |                          | REQUIREMENTS   | QT                             | AT         |
| <b>CONSTRUCTION</b>   |   |                          |  |                                |            |
| GENERAL EXAMINATION   | VISUALLY AND BY MEASURING INSTRUMENT.   |                          | ACCORDING TO DRAWING.  | x                              | x          |
| MARKING   | CONFIRMED VISUALLY.   |                          |  | x                              | x          |
| <b>ELECTRIC CHARACTERISTICS</b>   |   |                          |  |                                |            |
| CONTACT RESISTANCE  | 100 mA (DC OR 1000 Hz).   |                          | 80 mΩ MAX. <sup>(1)</sup>  | x                              | -          |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD   | 20 mV MAX, 1 mA(DC OR 1000Hz)   |                          | 100 mΩ MAX. <sup>(2)</sup>   | x                              | -          |
| INSULATION RESISTANCE   | 250 V DC.   |                          | 100 MΩ MIN.  | x                              | -          |
| VOLTAGE PROOF   | 300 V AC FOR 1 min.   |                          | NO FLASHOVER OR BREAKDOWN.   | x                              | -          |
| <b>MECHANICAL CHARACTERISTICS</b>   |   |                          |  |                                |            |
| INSERTION AND WITHDRAWAL FORCE  | MEASURED BY APPLICABLE CONNECTOR.   |                          | INSERTION FORCE: 140 N MAX.<br>WITHDRAWAL FORCE: 13 N MIN.                                     | x                              | -          |
| MECHANICAL OPERATION  | 50 TIMES INSERTIONS AND EXTRACTIONS.  |                          | ① CONTACT RESISTANCE: 100 mΩ MAX. <sup>(2)</sup><br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x                              | -          |
| VIBRATION   | FREQUENCY 10 TO 55 Hz,<br>AMPLITUDE : 1.5 mm,<br>AT 2 h FOR 3 DIRECTION.                                  |                          | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② CONTACT RESISTANCE: 100 mΩ MAX. <sup>(2)</sup>     | x                              | -          |
| SHOCK   | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.                            |                          | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   | x                              | -          |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>  |   |                          |  |                                |            |
| DAMP HEAT (STEADY STATE)  | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.  |                          | ① CONTACT RESISTANCE: 100 mΩ MAX. <sup>(2)</sup><br>② INSULATION RESISTANCE: 100 MΩ MIN.       | x                              | -          |
| RAPID CHANGE OF TEMPERATURE   | TEMPERATURE-55→+15~+35→+85→+15~+35°C<br>TIME 30 → 2~3 → 30 → 2~3 min<br>UNDER 5 CYCLES.                   |                          | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   | x                              | -          |
| CORROSION SALT MIST   | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.   |                          | ① CONTACT RESISTANCE: 100 mΩ MAX. <sup>(2)</sup><br>② NO HEAVY CORROSION.                      | x                              | -          |
| HYDROGEN SULPHIDE   | EXPOSED IN 3 PPM FOR 96 h.<br>(TEST STANDARD: JEIDA-38)   |                          |  | x                              | -          |
| RESISTANCE TO SOLDERING HEAT  | 1) REFLOW SOLDERING : 250 °C MAX,<br>: 220 °C MIN,<br>FOR 60 s<br>2) SOLDERING IRONS : 360 °C,<br>FOR 5 s |                          | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.                                | x                              | -          |
| SOLDERABILITY   | SOLDERED AT SOLDER TEMPERATURE, 240 ± 3°C,<br>FOR IMMERSION DURATION, 3 s.                                |                          | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.   | x                              | -          |
|   |   |                          |  |                                |            |
|   | COUNT   | DESCRIPTION OF REVISIONS | DESIGNED   | CHECKED                        | DATE       |
|   |   |                          |  |                                |            |
| <b>REMARK</b>   |   |                          | APPROVED   | HS. OKAWA                      | 06. 01. 23 |
| (1)THIS CONNECTOR'S INITIAL CONTACT RESISTANCE SHALL BE 80 mΩ,BECAUSE OF THE BULK RESISTANCE OF STACKING HEIGHT 16 mm TYPE. |   |                          | CHECKED  | HS. OZAWA                      | 06. 01. 23 |
| (2)AFTER TEST, THE CHANCE OF THE CONTACT RESISTANCE SHALL BE 20 mΩ MAX.   |   |                          | DESIGNED   | KY. NAKAMURA                   | 06. 01. 23 |
| (3)THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.                        |   |                          | DRAWN  | SY. KAMIGA                     | 06. 01. 20 |
| Unless otherwise specified, refer to JIS C 5402.  |   |                          |  |                                |            |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test  |   |                          | DRAWING NO.  | ELC4-150963-25                 |            |
|   | SPECIFICATION SHEET   |                          | PART NO.   | FX8C-100/100S11-SVJ(71)        |            |
|   | HIROSE ELECTRIC CO., LTD.   |                          | CODE NO.   | CL578-0905-8-71                | 1/1        |