

| 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>    |                |     |
| <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>ELECTRIC CHARACTERISTICS</b>   |   |                          |  |  |                                |                |     |
| CONTACT RESISTANCE  | 100 mA (DC OR 1000 Hz).   |                          |  | 80 mΩ MAX. <sup>(1)</sup>  | ×                              | -              |     |
| CONTACT RESISTANCE<br>MILLIVOLT LEVEL<br>METHOD   | 20 mV MAX, 1 mA(DC OR 1000Hz)   |                          |  | 100 mΩ MAX. <sup>(2)</sup>   | ×                              | -              |     |
| 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  | 50 TIMES INSERTIONS AND EXTRactions.  |                          |  | ① CONTACT RESISTANCE: 100 mΩ MAX. <sup>(2)</sup><br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | ×                              | -              |     |
| 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>     | ×                              | -              |     |
| 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.   | ×                              | -              |     |
| <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.       | ×                              | -              |     |
| 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.   | ×                              | -              |     |
| 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.                      | ×                              | -              |     |
| HYDROGEN SULPHIDE   | EXPOSED IN 3 PPM FOR 96 h.<br>(TEST STANDARD: JEIDA-38)   |                          |  |  | ×                              | -              |     |
| 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.                                | ×                              | -              |     |
| SOLDERABILITY   | SOLDERED AT SOLDER TEMPERATURE,<br>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.   | ×                              | -              |     |
|   |   |                          |  |  |                                |                |     |
|   | COUNT   | DESCRIPTION OF REVISIONS |  | DESIGNED   | CHECKED                        | DATE           |     |
|   |   |                          |  |  |                                |                |     |
| REMARK  |   |                          |  | APPROVED   | HS. OKAWA                      | 05.11.10       |     |
| (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                      | 05.11.09       |     |
| (2) AFTER TEST, THE CHANCE OF THE CONTACT RESISTANCE SHALL BE 20 mΩ MAX.  |   |                          |  | DESIGNED   | KY. NAKAMURA                   | 05.11.09       |     |
| (3) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.                         |   |                          |  | DRAWN  | SY. KAMIGA                     | 05.11.08       |     |
| Unless otherwise specified, refer to JIS C 5402.  |   |                          |  |  |                                |                |     |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test  |   |                          |  | DRAWING NO.  |                                | ELC4-150861-21 |     |
|   | SPECIFICATION SHEET   |                          |  | PART NO.   | FX8C-60P-SV4 (91)              |                |     |
|   | HIROSE ELECTRIC CO., LTD.   |                          |  | CODE NO.   | CL578-0581-8-91                |                | 1/1 |