

| 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                          |
| CONSTRUCTION                                                                                                                  |                             |                                                                                                           |             |                                                                                                |                                |
| GENERAL EXAMINATION                                                                                                           |                             | VISUALLY AND BY MEASURING INSTRUMENT.                                                                     |             | ACCORDING TO DRAWING.                                                                          | ×                              |
| MARKING                                                                                                                       |                             | CONFIRMED VISUALLY.                                                                                       |             |                                                                                                | ×                              |
| ELECTRIC CHARACTERISTICS                                                                                                      |                             |                                                                                                           |             |                                                                                                |                                |
| CONTACT RESISTANCE                                                                                                            |                             | 100 mA (DC OR 1000 Hz).                                                                                   |             | 80 mΩ MAX. <sup>(1)</sup>                                                                      | ×                              |
| CONTACT RESISTANCE                                                                                                            |                             | 20 mV MAX, 1 mA(DC OR 1000Hz)                                                                             |             | 100 mΩ MAX. <sup>(2)</sup>                                                                     | ×                              |
| MILLIVOLT LEVEL METHOD                                                                                                        |                             |                                                                                                           |             |                                                                                                |                                |
| INSULATION RESISTANCE                                                                                                         |                             | 250 V DC.                                                                                                 |             | 100 MΩ MIN.                                                                                    | ×                              |
| VOLTAGE PROOF                                                                                                                 |                             | 300 V AC FOR 1 min.                                                                                       |             | NO FLASHOVER OR BREAKDOWN.                                                                     | ×                              |
| MECHANICAL CHARACTERISTICS                                                                                                    |                             |                                                                                                           |             |                                                                                                |                                |
| 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.                                                     | ×                              |
| ENVIRONMENTAL CHARACTERISTICS                                                                                                 |                             |                                                                                                           |             |                                                                                                |                                |
| 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, 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                                                                                      | 05.11.09                       |
| (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                                                                                      | 05.11.08                       |
| (2) AFTER TEST, THE CHANCE OF THE CONTACT RESISTANCE SHALL BE 20 mΩ MAX.                                                      |                             |                                                                                                           | DESIGNED    | KY. NAKAMURA                                                                                   | 05.11.08                       |
| (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. |                                                                                                | ELC4-150831-25                 |
|                                                                                                                               |                             | SPECIFICATION SHEET                                                                                       |             | PART NO. FX8C-60P-SV1 (71)                                                                     |                                |
| HIROSE ELECTRIC CO., LTD.                                                                                                     |                             | CODE NO.                                                                                                  |             | CL578-0521-6-71                                                                                | 1/1                            |