

| APPLICABLE STANDARD   |   |   |                                 |                                |
|---|---|---|---------------------------------|--------------------------------|
| RATING  | OPERATING TEMPERATURE RANGE   | -55 °C TO 85 °C <sup>(1)</sup>  | STORAGE TEMPERATURE RANGE       | -10 °C TO 60 °C <sup>(2)</sup> |
|   | VOLTAGE   | 100 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>ELECTRIC CHARACTERISTICS</b>   |   |   |                                 |                                |
| CONTACT RESISTANCE  | 100 mA (DC OR 1000 Hz).   | 40 mΩ MAX.  | ×                               |                                |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD   | 20 mV MAX, 1 mA(DC OR 1000Hz)   | 50 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  | 100 TIMES INSERTIONS AND EXTRACTIONS.   | ① CONTACT RESISTANCE: 50 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.              | ×                               |                                |
| VIBRATION   | FREQUENCY 10 TO 55 Hz,<br>SINGLE AMPLITUDE :0.76 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: 50 mΩ MAX.<br>② INSULATION RESISTANCE: 100 MΩ MIN.                    | ×                               |                                |
| RAPID CHANGE OF TEMPERATURE   | TEMPERATURE-55→+15~+35→+85→+15~+35°C<br>TIME 30 → 5 MAX → 30 → 5 MAX<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: 50 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) REFLOW SOLDERING :250 °C MAX,<br>220 °C MIN,<br>FOR 60 s                             | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.                              | ×                               |                                |
|   | 2) SOLDERING IRON 360 °C,<br>FOR 5 s  |   | ×                               |                                |
| SOLDRABILITY  | SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION, 3s.                      | A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | ×                               |                                |
|   |   |   |                                 |                                |
|   |   |   |                                 |                                |
| <b>COUNT</b>  |   |   | <b>DESCRIPTION OF REVISIONS</b> | <b>DESIGNED</b>                |
|   |   |   |                                 |                                |
|   |   |   |                                 |                                |
|   |   |   |                                 |                                |
| <b>REMARK</b>   |   |   | <b>APPROVED</b>                 | <b>HS.OKAWA</b>                |
| ① TEMPERATURE RISE INCLUDED WHEN ENERGIZED.   |   |   | <b>CHECKED</b>                  | <b>HS.OZAWA</b>                |
| ② THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. |   |   | <b>DESIGNED</b>                 | <b>TK.YANAGISAWA</b>           |
|   |   |   | <b>DRAWN</b>                    | <b>TK.YANAGISAWA</b>           |
| Unless otherwise specified, refer to MIL-STD-1344.  |   |   |                                 |                                |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                      |   | <b>DRAWING NO.</b>  | <b>ELC4-084963-22</b>           |                                |
| <b>HRS</b>  | <b>SPECIFICATION SHEET</b>  | <b>PART NO.</b>   | <b>FX6-20P-0.8SV1 (92)</b>      |                                |
|   | <b>HIROSE ELECTRIC CO., LTD.</b>  | <b>CODE NO.</b>   | <b>CL576-0021-0-92</b>          | △ 1/1                          |