

| 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                     | 0.4 A   |             | STORAGE HUMIDITY RANGE   | 40 % TO 70 % <sup>(2)</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).   |             | 45 mΩ MAX.   | ×                              |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD   |                             | 20 mV MAX, 1 mA(DC OR 1000Hz)   |             | 55 mΩ MAX.   | ×                              |
| 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: 55 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.               | ×                              |
| VIBRATION   |                             | FREQUENCY 10 TO 55 Hz,<br>AMPLITUDE : 1.5 mm,<br>2 hrs IN 3 DIRECTIONS.   |             | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② CONTACT RESISTANCE: 55 mΩ MAX.                   | ×                              |
| SHOCK   |                             | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>FOR 3 TIMES IN 3 DIRECTIONS.  |             | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   | ×                              |
| ENVIRONMENTAL CHARACTERISTICS   |                             |   |             |  |                                |
| DAMP HEAT (STEADY STATE)  |                             | EXPOSED AT 40 ± 2 °C, 90 ~ 95 %, 96 hrs.  |             | ① CONTACT RESISTANCE: 55 mΩ MAX.<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>5 CYCLES.   |             | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   | ×                              |
| CORROSION SALT MIST   |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 hrs.   |             | ① CONTACT RESISTANCE: 55 mΩ MAX.<br>② NO HEAVY CORROSION.                                    | ×                              |
| HYDROGEN SULPHIDE   |                             | EXPOSED IN 3 PPM FOR 96 hrs.<br>(TEST STANDARD: JEIDA 38)   |             |  | ×                              |
| RESISTANCE TO SOLDERING HEAT  |                             | 1)AUTOMATIC SOLDERING (REFLOW)<br>SOLDER TEMPERATURE, 250 °C MAX<br>220 °C MIN.<br>FOR 60 sec.<br><br>2)MANUAL SOLDERING<br>SOLDERING IRON TEMPRATURE: 360 °C<br>SOLDERING TIME : 5 sec MAX |             | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.                              | ×                              |
| SOLDERABILITY   |                             | SOLDERED AT SOLDER TEMPERATURE, 240 °C,<br>FOR IMMERSION DURATION, 3 sec.   |             | 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 <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. |                             |   | APPROVED    | HS.OKAWA   | 05.10.11                       |
|   |                             |   | CHECKED     | HS.OZAWA   | 05.10.11                       |
|   |                             |   | DESIGNED    | TK.YANAGISAWA  | 05.10.01                       |
|   |                             |   | DRAWN       | TK.YANAGISAWA  | 05.10.01                       |
| Unless otherwise specified, refer to JIS C 5402.  |                             |   |             |  |                                |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test  |                             |   | DRAWING NO. |  | ELC4-150571-21                 |
| HRS   | SPECIFICATION SHEET         |   | PART NO.    | FX8-100P-SV1 (91)  |                                |
|   | HIROSE ELECTRIC CO., LTD.   |   | CODE NO.    | CL578-0045-1-91  | △ 1/1                          |