







| 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  |
| <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).   |                                | 45 mΩ MAX.  | x                              |   |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD  | 20 mV MAX, 1 mA(DC OR 1000Hz)   |                                | 55 mΩ MAX.  | 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>  |   |                                |   |                                |   |
| MECHANICAL OPERATION   | 50 TIMES INSERTIONS AND EXTRACTIONS.  |                                | ① CONTACT RESISTANCE: 55 mΩ MAX.<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: 55 mΩ MAX.                    | 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: 55 mΩ MAX.<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: 55 mΩ MAX.<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,<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 IMMERSSED. | x                              |   |
|  |   |                                |   |                                |   |
|                   | COUNT   | DESCRIPTION OF REVISIONS       | DESIGNED  | CHECKED                        | DATE  |
|  | 1   | DIS-F-000293                   | KT. D01   | HS. OZAWA                      | 05. 07. 28  |
| REMARK   |   |                                | APPROVED  | YK. YOSHIMURA                  | 03. 03. 06  |
| (1)TEMPERATURE RISE INCLUDED WHEN ENERGIZED.   |   |                                | CHECKED   | HS. OKAWA                      | 03. 03. 06  |
| (2)THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. |   |                                | DESIGNED  | KY. NAKAMURAKT. D01            | 03. 03. 06  |
| Unless otherwise specified, refer to JIS C 5402.   |   |                                | DRAWN   | KY. NAKAMURA                   | 03. 03. 06  |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                       |   |                                | DRAWING NO.   |                                | ELC4-150726-22  |
|                   | SPECIFICATION SHEET   |                                | PART NO.  | FX8-*P-SV (92)                 |   |
|  | HIROSE ELECTRIC CO., LTD.   |                                | CODE NO.  | CL578                          |  1/1 |