

| APPLICABLE STANDARD   |   | SPECIFICATIONS                 |  |                                |   |  |  |
|---|---|--------------------------------|--|--------------------------------|---|--|--|
| 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>    |   |  |  |
| CONSTRUCTION  |   |                                |  |                                |   |  |  |
| GENERAL EXAMINATION   | VISUALLY AND BY MEASURING INSTRUMENT.   |                                | ACCORDING TO DRAWING.  |                                | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>                   |  |  |
| MARKING   | CONFIRMED VISUALLY.   |                                |  |                                | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>                   |  |  |
| ELECTRIC CHARACTERISTICS  |   |                                |  |                                |   |  |  |
| CONTACT RESISTANCE  | 100 mA (DC OR 1000 Hz).   |                                | 45 mΩ MAX.   |                                | <input checked="" type="checkbox"/>   |  |  |
| CONTACT RESISTANCE  | 20 mV MAX, 1 mA(DC OR 1000Hz)   |                                | 55 mΩ MAX.   |                                | <input checked="" type="checkbox"/>   |  |  |
| MILLIVOLT LEVEL METHOD  |   |                                |  |                                |   |  |  |
| INSULATION RESISTANCE   | 250 V DC.   |                                | 100 MΩ MIN.  |                                | <input checked="" type="checkbox"/>   |  |  |
| VOLTAGE PROOF   | 300 V AC FOR 1 min.   |                                | NO FLASHOVER OR BREAKDOWN.   |                                | <input checked="" type="checkbox"/>   |  |  |
| MECHANICAL CHARACTERISTICS  |   |                                |  |                                |   |  |  |
| MECHANICAL OPERATION  | 50 TIMES INSERTIONS AND EXTRACTIONS.  |                                | ① CONTACT RESISTANCE: 55 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.               |                                | <input checked="" type="checkbox"/>   |  |  |
| 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.                   |                                | <input checked="" type="checkbox"/>   |  |  |
| 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.   |                                | <input checked="" type="checkbox"/>   |  |  |
| ENVIRONMENTAL CHARACTERISTICS   |   |                                |  |                                |   |  |  |
| 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.                     |                                | <input checked="" type="checkbox"/>   |  |  |
| 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.   |                                | <input checked="" type="checkbox"/>   |  |  |
| CORROSION SALT MIST   | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.   |                                | ① CONTACT RESISTANCE: 55 mΩ MAX.<br>② NO HEAVY CORROSION.                                    |                                | <input checked="" type="checkbox"/>   |  |  |
| HYDROGEN SULPHIDE   | EXPOSED IN 3 PPM FOR 96 h.<br>(TEST STANDARD: JEIDA-38)   |                                |  |                                | <input checked="" type="checkbox"/>   |  |  |
| 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.                              |                                | <input checked="" type="checkbox"/>   |  |  |
| 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. |                                | <input checked="" type="checkbox"/>   |  |  |
| COUNT   | DESCRIPTION OF REVISIONS  |                                | DESIGNED   | CHECKED                        | DATE  |  |  |
|  1                 | DIS-F-000293  |                                | KT. DOI  | HS. OZAWA                      | 05.07.28  |  |  |
| REMARK  |   |                                | APPROVED   | YK. YOSHIMURA                  |   |  |  |
| (1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED.   |   |                                | CHECKED  | HS. OKAWA                      |   |  |  |
| (2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. |   |                                | DESIGNED   | KY. NAKAMURAKT. DOI            |   |  |  |
| Unless otherwise specified, refer to JIS C 5402.  |   |                                | DRAWN  | KY. NAKAMURA                   |   |  |  |
| 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 |  |  |