

|                                                                                                                                                                                     |                             |                                                                                                           |                                                                                              |                                |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------|----------------|
| 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>    |                |
| SPECIFICATIONS                                                                                                                                                                      |                             |                                                                                                           |                                                                                              |                                |                |
| ITEM                                                                                                                                                                                |                             | TEST METHOD                                                                                               | REQUIREMENTS                                                                                 | QT                             | AT             |
| CONSTRUCTION                                                                                                                                                                        |                             |                                                                                                           |                                                                                              |                                |                |
| GENERAL EXAMINATION                                                                                                                                                                 |                             | VISUALLY AND BY MEASURING INSTRUMENT.                                                                     | ACCORDING TO DRAWING.                                                                        | x                              | x              |
| MARKING                                                                                                                                                                             |                             | CONFIRMED VISUALLY.                                                                                       |                                                                                              | x                              | x              |
| ELECTRIC CHARACTERISTICS                                                                                                                                                            |                             |                                                                                                           |                                                                                              |                                |                |
| CONTACT RESISTANCE                                                                                                                                                                  |                             | 100 mA (DC OR 1000 Hz).                                                                                   | 40 mΩ MAX.                                                                                   | x                              | —              |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD                                                                                                                                           |                             | 20 mV MAX, 1 mA(DC OR 1000Hz)                                                                             | 50 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                              | —              |
| MECHANICAL CHARACTERISTICS                                                                                                                                                          |                             |                                                                                                           |                                                                                              |                                |                |
| MECHANICAL OPERATION                                                                                                                                                                |                             | 100 TIMES INSERTIONS AND EXTRACTIONS.                                                                     | ① CONTACT RESISTANCE: 50 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.               | x                              | —              |
| 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 NO DAMAGE, CRACK AND LOOSENESS OF PARTS.         | x                              | —              |
| SHOCK                                                                                                                                                                               |                             | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>FOR 3 TIMES IN 3 DIRECTIONS.                            |                                                                                              | x                              | —              |
| ENVIRONMENTAL CHARACTERISTICS                                                                                                                                                       |                             |                                                                                                           |                                                                                              |                                |                |
| DAMP HEAT (STEADY STATE)                                                                                                                                                            |                             | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 hrs.                                                                    | ① CONTACT RESISTANCE: 50 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 → MAX 5 → 30 → MAX 5 min<br>5 CYCLES.                     | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                                   | x                              | —              |
| CORROSION SALT MIST                                                                                                                                                                 |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 hrs.                                                               | ① CONTACT RESISTANCE: 50 mΩ MAX.<br>② NO HEAVY CORROSION.                                    | x                              | —              |
| HYDROGEN SULPHIDE                                                                                                                                                                   |                             | EXPOSED IN 3 PPM FOR 96 hrs.<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, 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. | x                              | —              |
|                                                                                                                                                                                     |                             |                                                                                                           |                                                                                              |                                |                |
|                                                                                                                                                                                     | 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                      | 14. 12. 08     |
|                                                                                                                                                                                     |                             |                                                                                                           | CHECKED                                                                                      | HT. YAMAGUCHI                  | 14. 12. 08     |
|                                                                                                                                                                                     |                             |                                                                                                           | DESIGNED                                                                                     | KJ. NISHIWAKI                  | 14. 12. 08     |
|                                                                                                                                                                                     |                             |                                                                                                           | DRAWN                                                                                        | KN. YAMAZAKI                   | 14. 12. 05     |
| Unless otherwise specified, refer to MIL-STD-1344.                                                                                                                                  |                             |                                                                                                           |                                                                                              |                                |                |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                      |                             |                                                                                                           | DRAWING NO.                                                                                  |                                | ELC4-071642-03 |
| HRS                                                                                                                                                                                 | SPECIFICATION SHEET         |                                                                                                           | PART NO.                                                                                     | FX6A-50P-0. 8SV (92)           |                |
|                                                                                                                                                                                     | HIROSE ELECTRIC CO., LTD.   |                                                                                                           | CODE NO.                                                                                     | CL576-0204-0-92                | △ 1/1          |