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| 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       |
| <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).   |                                |             | 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                              | -        |
| <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.               | x                              | -        |
| VIBRATION   | FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, AT 2 h FOR 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 AT 3 TIMES FOR 3 DIRECTIONS.                   |                                |             |  | x                              | -        |
| <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.                     | x                              | -        |
| RAPID CHANGE OF TEMPERATURE   | TEMPERATURE -55→+15~+35→+85→+15~+35 °C<br>TIME 30 → MAX 5 → 30 → MAX 5 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: 50 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, : 220 °C MIN, FOR 60 s                                      |                                |             | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.                              | x                              | -        |
|   | 2) SOLDERING IRONS : 360 °C, FOR 5 s  |                                |             |  | x                              | -        |
| SOLDERABILITY   | SOLDERED AT SOLDER TEMPERATURE, 240±3 °C, FOR IMMERSION DURATION, 3 s.                        |                                |             | 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                      | 08.06.26 |
|   |   |                                |             | CHECKED  | HT. YAMAGUCHI                  | 08.06.25 |
|   |   |                                |             | DESIGNED   | SY. KAMIGA                     | 08.06.23 |
| Unless otherwise specified, refer to MIL-STD-1344.  |   |                                |             | DRAWN  | TP. MATSUMOTO                  | 08.06.18 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test  |   |                                | DRAWING NO. | ELC4-071324-25   |                                |          |
| <b>HRS</b>  | SPECIFICATION SHEET   |                                | PART NO.    | FX6A-60P-0.8SV (71)  |                                |          |
|   | HIROSE ELECTRIC CO., LTD.   |                                | CODE NO.    | CL576-0205-3-71  |                                | △        |