

|   |                             |   |  |                                |                |
|---|-----------------------------|---|--|--------------------------------|----------------|
| 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                     | 50 V AC   | OPERATING HUMIDITY RANGE   | 95 % RH MAX.                   |                |
|   | CURRENT                     | 0.3 A   | (NO DEW CONDENSATION IS PERMITTED)   |                                |                |
| 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).   | 60 mΩ MAX.   | x                              | —              |
| INSULATION RESISTANCES  |                             | 100 V DC  | 100 MΩ MIN.  | x                              | —              |
| VOLTAGE PROOF   |                             | 150 V AC FOR 1 min.   | NO FLASHOVER OR BREAKDOWN.   | x                              | x              |
| MECHANICAL CHARACTERISTICS  |                             |   |  |                                |                |
| INSERTION AND WITHDRAWAL FORCE  |                             | MEASURED BY APPLICABLE CONNECTOR.   | INSERTION FORCE: 54.0 N MAX.<br>WITHDRAWAL FORCE: 3.6 N MIN.                                 | x                              | —              |
| MECHANICAL OPERATION  |                             | 50 TIMES INSERTIONS AND EXTRACTIONS.  | ① CONTACT RESISTANCE: 70 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.               | x                              | —              |
| VIBRATION   |                             | FREQUENCY 10 TO 55 Hz,<br>SINGLE AMPLITUDE : 0.75 mm,<br>AT 10 CYCLES FOR 3 DIRECTIONS.                 | ① NO ELECTRICAL DISCONTINUITY OF 1 μs MIN.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.     | x                              | —              |
| SHOCK   |                             | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.                          |  | x                              | —              |
| ENVIRONMENTAL CHARACTERISTICS   |                             |   |  |                                |                |
| DAMP HEAT (STEADY STATE)  |                             | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.  | ① CONTACT RESISTANCE: 70 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                              | —              |
| DRY HEAT  |                             | EXPOSED AT 85 °C, 96 h.   | ① CONTACT RESISTANCE: 70 mΩ MAX.   | x                              | —              |
| COLD  |                             | EXPOSED AT -55 °C, 96 h.  | ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   | x                              | —              |
| CORROSION SALT MIST   |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.   | NO HEAVY CORROSION.  | x                              | —              |
| SULPHUR DIOXIDE   |                             | EXPOSED IN 10 PPM FOR 96 h.<br>(TEST STANDARD: JIS C 0090)  | ① CONTACT RESISTANCE: 70 mΩ MAX.<br>② NO HEAVY CORROSION.                                    | 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 MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.                              | x                              | —              |
| SOLDERABILITY   |                             | SOLDERED AT SOLDER TEMPERATURE,<br>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           |
| 0   |                             |   |  |                                |                |
| 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                      | 09.05.22       |
|   |                             |   | CHECKED  | HT. YAMAGUCHI                  | 09.05.22       |
|   |                             |   | DESIGNED   | YN. TAKANO                     | 09.05.21       |
|   |                             |   | DRAWN  | HK. SUNADORI                   | 09.05.20       |
| Unless otherwise specified, refer to JIS C 5402.  |                             |   |  |                                |                |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test  |                             |   | DRAWING NO.  |                                | ELC4-152092-21 |
| HRS   | SPECIFICATION SHEET         |   | PART NO.   | FX11LA-60P/6-SV (91)           |                |
|   | HIROSE ELECTRIC CO., LTD.   |   | CODE NO.   | CL573-0002-7-91                | 0/1            |