

| 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.<br>(NO DEW CONDENSATION IS PERMITTED) |
|                                                                                                                                                                                     | CURRENT                     | 0.3 A                                                                                                     |             |                                                                                             |                                                    |
| SPECIFICATIONS                                                                                                                                                                      |                             |                                                                                                           |             |                                                                                             |                                                    |
| ITEM                                                                                                                                                                                |                             | TEST METHOD                                                                                               |             | REQUIREMENTS                                                                                | QT AT                                              |
| CONSTRUCTION                                                                                                                                                                        |                             |                                                                                                           |             |                                                                                             |                                                    |
| GENERAL EXAMINATION                                                                                                                                                                 |                             | VISUALLY AND BY MEASURING INSTRUMENT.                                                                     |             | ACCORDING TO DRAWING.                                                                       | ×                                                  |
| MARKING                                                                                                                                                                             |                             | CONFIRMED VISUALLY.                                                                                       |             |                                                                                             | ×                                                  |
| ELECTRIC CHARACTERISTICS                                                                                                                                                            |                             |                                                                                                           |             |                                                                                             |                                                    |
| CONTACT RESISTANCE                                                                                                                                                                  |                             | 100 mA (DC OR 1000 Hz).                                                                                   |             | 60 mΩ MAX.                                                                                  | ×                                                  |
| INSULATION RESISTANCES                                                                                                                                                              |                             | 100 V DC                                                                                                  |             | 100 MΩ MIN.                                                                                 | ×                                                  |
| VOLTAGE PROOF                                                                                                                                                                       |                             | 150 V AC FOR 1 min.                                                                                       |             | NO FLASHOVER OR BREAKDOWN.                                                                  | ×                                                  |
| MECHANICAL CHARACTERISTICS                                                                                                                                                          |                             |                                                                                                           |             |                                                                                             |                                                    |
| INSERTION AND WITHDRAWAL FORCE                                                                                                                                                      |                             | MEASURED BY APPLICABLE CONNECTOR.                                                                         |             | INSERTION FORCE: 90 N MAX.<br>WITHDRAWAL FORCE: 6 N MIN.                                    | ×                                                  |
| MECHANICAL OPERATION                                                                                                                                                                |                             | 50 TIMES INSERTIONS AND EXTRACTIONS.                                                                      |             | ① CONTACT RESISTANCE: 70 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.              | ×                                                  |
| 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.    | ×                                                  |
| SHOCK                                                                                                                                                                               |                             | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.                            |             |                                                                                             | ×                                                  |
| 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.                    | ×                                                  |
| 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.                                                  | ×                                                  |
| DRY HEAT                                                                                                                                                                            |                             | EXPOSED AT 85 °C, 96 h.                                                                                   |             | ① CONTACT RESISTANCE: 70 mΩ MAX.                                                            | ×                                                  |
| COLD                                                                                                                                                                                |                             | EXPOSED AT -55 °C, 96 h.                                                                                  |             | ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                                  | ×                                                  |
| CORROSION SALT MIST                                                                                                                                                                 |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.                                                                 |             | NO HEAVY CORROSION.                                                                         | ×                                                  |
| 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.                                   | ×                                                  |
| 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.                             | ×                                                  |
| SOLDERABILITY                                                                                                                                                                       |                             | SOLDERED AT SOLDER TEMPERATURE,<br>240 ± 3 °C, FOR IMMERSION DURATION, 3 s.                               |             | A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | ×                                                  |
|                                                                                                                                                                                     |                             |                                                                                                           |             |                                                                                             |                                                    |
|                                                                                                                                                                                     | 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                                                                                    | 06.04.27                                           |
|                                                                                                                                                                                     |                             |                                                                                                           | CHECKED     | HS.OZAWA                                                                                    | 06.04.27                                           |
|                                                                                                                                                                                     |                             |                                                                                                           | DESIGNED    | KY.NAKAMURA                                                                                 | 06.04.27                                           |
| Unless otherwise specified, refer to JIS C 5402.                                                                                                                                    |                             |                                                                                                           | DRAWN       | SY.KAMIGA                                                                                   | 06.04.24                                           |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                      |                             |                                                                                                           | DRAWING NO. |                                                                                             | ELC4-152110-25                                     |
| HRS                                                                                                                                                                                 | SPECIFICATION SHEET         |                                                                                                           | PART NO.    | FX11LA-100S/10-SV (71)                                                                      |                                                    |
|                                                                                                                                                                                     | HIROSE ELECTRIC CO., LTD.   |                                                                                                           | CODE NO.    | CL573-0104-7-71                                                                             | △ 1/1                                              |