| APPLICA  |                  |                       | PARD  |                                      |                   |  |   |  |                      |                      |          |       |
|--|------------------|-----------------------|---|--------------------------------------|-------------------|--|---|--|----------------------|----------------------|----------|-------|
|  | 1                | PERATING<br>MPERATURI | E RANGE   | -55 °C TO 85 °                       | C (1)             | TEM  |   | IRE RANGE                                  |                      | -10 °C TO 60 °C      |          |       |
| RATING   | V                | DLTAGE                |   | 50 V AC                              |                   | OPE<br>RAN                                   |   | RATING HUMIDITY<br>SE                      |                      | 95 % RH MAX          | •        |       |
|  | С                | JRRENT                | 0.3 A   |                                      |                   |  |   | (NO DEW CONDENSATION IS PERMITTED)         |                      |                      |          |       |
|  |                  |                       |   | SPEC                                 | IFICA             | <b>NOIT</b>                                  | IS  |  |                      |                      |          |       |
| IT   | ΈN               | 1                     |   | TEST METHOD                          |                   |  |   | RE   | QU                   | IREMENTS             | QT       | AT    |
| CONSTRU  | JC.              | TION                  |   |                                      |                   |  | •   |  |                      |                      | •        | •     |
|  |                  |                       |   |                                      |                   |  | ACCORDING TO DRAWING.   |  |                      |                      | ×        | ×     |
| MARKING  |                  |                       | CONFIRMED VISUALLY.   |                                      |                   |  |   |  |                      |                      | ×        | ×     |
| ELECTRIC CHARACT                                 |                  |                       |   |                                      |                   |  |   |  |                      |                      | _        |       |
| CONTACT RESISTANCE INSULATION                    |                  |                       | 100 mA (DC OR 1000 Hz).   |                                      |                   |  | 60 mΩ MAX .<br>100 MΩ MIN.  |  |                      |                      | ×        |       |
| RESISTANCE                                       |                  |                       | 100 4 DC  |                                      |                   |  | 100 141 25 141114.  |  |                      |                      | ^        |       |
| VOLTAGE PROOF                                    |                  |                       |   |                                      |                   |  | NO FLASHOVER OR BREAKDOWN.  |  |                      |                      | ×        | ×     |
| MECHAN   | IC/              | L CHAR                | ACTER   | ISTICS                               |                   |  |   |  |                      |                      |          |       |
| INSERTION AND                                    |                  |                       |   |                                      |                   |  | INSERTION FORCE: 90 N MAX.  |  |                      |                      | ×        |       |
| WITHDRAW<br>MECHANIC                             | WITHDRAWAL FORCE |                       |   | 50 TIMES INSERTIONS AND EXTRACTIONS. |                   |  |   | WITHDRAWAL FORCE: 6 N MIN.                 |                      |                      |          | -     |
| OPERATION  |                  |                       | 30 TIMES INSERTIONS AND EXTRACTIONS.  |                                      |                   |  | ① CONTACT RESISTANCE: 70 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS<br>OF PARTS. |  |                      |                      | ×        |       |
| VIBRATION  |                  |                       | FREQUENCY 10 TO 55 Hz,  |                                      |                   |  | NO ELECTRICAL DISCONTINUITY OF     1 µs.     NO DAMAGE, CRACK AND LOOSENESS       |  |                      |                      | ×        |       |
|  |                  |                       | SINGLE AMPLITUDE: 0.75 mm,<br>WITH 10 CYCLES IN 3 DIRECTIONS.   |                                      |                   |  |   |  |                      |                      |          |       |
| SHOCK  |                  |                       | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>3 TIMES IN 3 DIRECTIONS.  |                                      |                   |  | OF  | PARTS.                                     |                      |                      | ×        |       |
| ENVIRON  | IME              | ENTAL CI              | HARAC   | TERISTICS                            |                   |  |   |  |                      |                      |          |       |
| DAMP HEAT  |                  |                       | EXPOSED AT 40 $\pm$ 2 °C, 90 $\sim$ 95 %, 96 h.   |                                      |                   |  | ① COI   | ① CONTACT RESISTANCE: 70 mΩ MAX.           |                      |                      |          |       |
| (STEADY STATE)                                   |                  |                       | TEMPERATURE SS 145 105 145 10500  |                                      |                   |  | 4   |  |                      | SISTANCE:100 MΩ MIN. | ×        |       |
| RAPID CHANGE OF<br>TEMPERATURE                   |                  |                       | TEMPERATURE-55 $\rightarrow$ +15 $\sim$ +35 $\rightarrow$ +85 $\rightarrow$ +15 $\sim$ +35 $^{\circ}$ C TIME 30 $\rightarrow$ 2 $\sim$ 3 $\rightarrow$ 30 $\rightarrow$ 2 $\sim$ 3 min. UNDER 5 CYCLES. |                                      |                   |  | 1 -   | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. |                      |                      |          |       |
| DRY HEAT   |                  |                       | EXPOSED AT 85 °C , 96h.   |                                      |                   |  | ① CONTACT RESISTANCE: 70 mΩ MAX.  |  |                      |                      |          |       |
| COLD   |                  |                       | EXPOSED AT - 55 °C , 96h.   |                                      |                   |  | O NO DAMAGE, CRACK AND LOOSENESS<br>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)  |                                      |                   |  | <ul><li>① CONTACT RESISTANCE: 70 mΩ MAX.</li><li>② NO HEAVY CORROSION.</li></ul>  |  |                      |                      | ×        |       |
| RESISTANCE TO                                    |                  |                       | 1) REFLOW SOLDERING : 250 °C MAX,   |                                      |                   |  | NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPORNENT.                  |  |                      |                      | ×        |       |
| SOLDERING HEAT                                   |                  |                       | : 220 °C MIN,<br>FOR 60 s   |                                      |                   |  |   |  |                      |                      |          |       |
|  |                  |                       | 2) SOLDERING IRONS : 360 °C,<br>FOR 5 s   |                                      |                   |  |   |  |                      |                      | ×        |       |
| SOLDERABILITY                                    |                  |                       | SOLDERED AT SOLDER TEMPERATURE, 240°C, FOR IMMERSION DURATION, 3 sec.   |                                      |                   | NO PINHOLE OR DEWETTING ON SOLDERED SURFACE. |   |  |                      | ×                    |          |       |
|  |                  |                       |   |                                      |                   |  |   |  |                      |                      |          |       |
|  |                  |                       |   |                                      |                   |  |   |  |                      |                      |          |       |
|  |                  |                       |   |                                      |                   |  |   |  |                      |                      |          |       |
| COUN   | ΙΤ               | DE                    | SCRIPTI   | ON OF REVISIONS                      | OF REVISIONS DESI |  |   |  |                      | CHECKED              | DA       | TE    |
| <u>/Ô\</u>                                       | <i>u</i> :       |                       |   |                                      |                   |  |   |  |                      |                      |          |       |
| <sup>(2)</sup> THIS STORAGE                      |                  |                       | E RISE INCLUDED WHEN ENERGIZED.<br>INDICATES A LONG-TERM STORAGE STATE<br>SED PRODUCT BEFORE THE BOARD MOUNTED.   |                                      |                   |  | CHECKED   |  |                      | HS.OKAWA             |          | 9.03  |
|  |                  |                       |   |                                      |                   |  |   |  |                      | HS.OZAWA             | 05.09.0  |       |
|  | .1.              |                       | aified refer to US C 5400   |                                      |                   |  | DESIGNED  |  |                      | TH.NODA              | 05.09.02 |       |
| Unless otherwise specified, refer to JIS C 5402. |                  |                       |   |                                      |                   | DRAWN  |   |  | TH.NODA              | 05.09.02             |          |       |
|  |                  |                       |   |                                      |                   | RAWING NO.                                   |   |  | ELG4-152094-25       |                      |          |       |
|  |                  |                       | PECIFICATION SHEET  |                                      |                   | PART NO.                                     |   |  | FX11LA-100P/10-SV (7 |                      |          | 4 , . |
|  |                  |                       | OSE ELECTRIC CO., LTD.  |                                      |                   | CODE NO.                                     |   | ∣ CL                                       | CL573-0004-2-71      |                      |          | 1/1   |