

| COUNT                                                             | DESCRIPTION OF REVISIONS    | BY                                                                                      | CHKD | DATE        | COUNT                                                                                                                    | DESCRIPTION OF REVISIONS | BY                       | CHKD     | DATE |
|-------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------|------|-------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|----------|------|
|                                                                   |                             |                                                                                         |      |             |                                                                                                                          |                          |                          |          |      |
| APPLICATION STANDARD                                              |                             |                                                                                         |      |             |                                                                                                                          |                          |                          |          |      |
| RATING                                                            | OPERATING TEMPERATURE RANGE | -55 °C TO +85 °C                                                                        |      |             |                                                                                                                          |                          |                          |          |      |
|                                                                   | VOLTAGE                     | 100 V AC                                                                                |      |             |                                                                                                                          |                          |                          |          |      |
|                                                                   | CURRENT                     | 0.4 A                                                                                   |      |             |                                                                                                                          |                          |                          |          |      |
| SPECIFICATIONS                                                    |                             |                                                                                         |      |             |                                                                                                                          |                          |                          |          |      |
| ITEM                                                              |                             | TEST METHOD                                                                             |      |             | REQUIREMENT                                                                                                              |                          |                          | QT       | AT   |
| CONSTRUCTION                                                      |                             |                                                                                         |      |             |                                                                                                                          |                          |                          |          |      |
| GENERAL EXAMINATION                                               |                             | VISUALLY AND BY MEASURING INSTRUMENT.                                                   |      |             | ACCORDING TO DRAWING                                                                                                     |                          |                          | X        | X    |
| MARKING                                                           |                             | CONFIRMED VISUALLY                                                                      |      |             |                                                                                                                          |                          |                          | X        | X    |
| ELECTRICAL CHARACTERISTICS                                        |                             |                                                                                         |      |             |                                                                                                                          |                          |                          |          |      |
| CONTACT RESISTANCE                                                |                             | 100 mA (DC OR 1000 Hz)                                                                  |      |             | 45 mΩ MAX.                                                                                                               |                          |                          | X        | -    |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD                         |                             | 20 mV MAX, 1 mA (DC OR 1000 Hz)                                                         |      |             | 55 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                                        |                             |                                                                                         |      |             |                                                                                                                          |                          |                          |          |      |
| INSERTION AND WITHDRAWAL FORCES                                   |                             | MEASURED BY APPLICABLE CONNECTOR.                                                       |      |             | INSERTION FORCE: 70 N MAX.<br>WITHDRAWAL FORCE: 6.5 N MIN.                                                               |                          |                          | X        | -    |
| MECHANICAL OPERATION                                              |                             | 50 TIMES INSERTIONS AND EXTRACTIONS.                                                    |      |             | 1) CONTACT RESISTANCE:55 mΩ MAX.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PART.                                           |                          |                          | X        | -    |
| VIBRATION                                                         |                             | FREQUENCY: 10 TO 55 Hz,<br>SINGLE AMPLITUDE: 0.75 mm<br>FOR 2 h IN 3 DIRECTIONS.        |      |             | 1) NO ELECTRICAL DISCONTINUITY OF 1 μs<br>2) CONTACT RESISTANCE:55 mΩ MAX.<br>3) NO DAMAGE, CRACK AND LOOSENESS OF PART. |                          |                          | 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 h.                                                      |      |             | 1) CONTACT RESISTANCE:55 mΩ MAX.<br>2)INSULATION RESISTANCE:                                                             |                          |                          | X        | -    |
| RAPID CHANGE OF TEMPERATURE                                       |                             | TEMPERATURE-55→+5~+35→+85→+5~+35°C<br>TIME 30→ 10~15→ 30→ 10~15 min.<br>UNDER 5 CYCLES. |      |             | 100 MΩ MIN.<br>3) NO DAMAGE, CRACK AND LOOSENESS OF PART.                                                                |                          |                          | X        | -    |
| CORROSION SALT MIST                                               |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.                                               |      |             | 1) CONTACT RESISTANCE:55 mΩ MAX.<br>2) NO HEAVY CORROSION.                                                               |                          |                          | X        | -    |
| HYDROGEN SULPHIDE                                                 |                             | EXPOSED IN 3 PPM FOR 96 h.<br>(TEST STANDARD:JEIDA-38)                                  |      |             |                                                                                                                          |                          |                          | X        | -    |
| REMARKS                                                           |                             |                                                                                         |      |             |                                                                                                                          |                          |                          |          |      |
|                                                                   |                             |                                                                                         |      | DRAWN       | DESIGNED                                                                                                                 | CHECKED                  | APPROVED                 | RELEASED |      |
|                                                                   |                             |                                                                                         |      | K. Hirayama | H. Yamaguchi                                                                                                             | H. Okawa                 | Y. Yoshimura             |          |      |
|                                                                   |                             |                                                                                         |      | 01.04.24    | 01.04.25                                                                                                                 | 01.04.25                 | 01.04.25                 |          |      |
| UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.                  |                             |                                                                                         |      |             |                                                                                                                          |                          |                          |          |      |
| NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST x: APPLICABLE TEST |                             |                                                                                         |      |             |                                                                                                                          |                          |                          |          |      |
| HRS                                                               |                             | HIROSE ELECTRIC CO.,LTD.                                                                |      |             | SPECIFICATION SHEET                                                                                                      |                          | PART NO. FX8-100S-SV(23) |          |      |
| CODE NO.(OLD)                                                     |                             | DRAWING NO.                                                                             |      |             | CODE NO.                                                                                                                 |                          |                          | 1        |      |
| CL                                                                |                             | ELC4-150676-01                                                                          |      |             | CL 578 - 0205 - 6 - 23                                                                                                   |                          |                          |          |      |

PC