

| 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                                                                                     |      |                  | STORAGE TEMPERATURE RANGE                                                                                                                                                        | — °C TO — °C             |                    |                         |      |
|                                                                   | VOLTAGE                     | 100 V AC                                                                                             |      |                  | OPERATING HUMIDITY RANGE                                                                                                                                                         | — % TO — %               |                    |                         |      |
|                                                                   | CURRENT                     | 0.4 A                                                                                                |      |                  | APPLICABLE CABLE                                                                                                                                                                 | —                        |                    |                         |      |
| SPECIFICATIONS                                                    |                             |                                                                                                      |      |                  |                                                                                                                                                                                  |                          |                    |                         |      |
| ITEM                                                              |                             | TEST METHOD                                                                                          |      |                  | REQUIREMENT                                                                                                                                                                      |                          |                    | QT                      | AT   |
| CONSTRUCTION                                                      |                             | VISUALLY AND BY MEASURING INSTRUMENT.                                                                |      |                  | ACCORDING TO DRAWING                                                                                                                                                             |                          |                    | ○                       | ○    |
| MARKING                                                           |                             | CONFIRMED VISUALLY                                                                                   |      |                  |                                                                                                                                                                                  |                          |                    | ○                       | —    |
| ELECTRICAL CHARACTERISTICS                                        |                             |                                                                                                      |      |                  |                                                                                                                                                                                  |                          |                    |                         |      |
| CONTACT RESISTANCE                                                |                             | 100 mA (DC OR 1000 Hz)                                                                               |      |                  | 45 mΩ MAX.                                                                                                                                                                       |                          |                    | ○                       | —    |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD                         |                             | 20 mV MAX, 1 mA (DC OR 1000 Hz)                                                                      |      |                  | 55 mΩ MAX.                                                                                                                                                                       |                          |                    | ○                       | —    |
| INSULATION RESISTANCE                                             |                             | 250 V DC                                                                                             |      |                  | 100 MΩ MIN.                                                                                                                                                                      |                          |                    | ○                       | —    |
| VOLTAGE PROOF                                                     |                             | 300 V AC FOR 1 min.                                                                                  |      |                  | NO FLASHOVER OR BREAKDOWN                                                                                                                                                        |                          |                    | ○                       | —    |
| MECHANICAL CHARACTERISTICS                                        |                             |                                                                                                      |      |                  |                                                                                                                                                                                  |                          |                    |                         |      |
| CONTACT INSERTION AND EXTRACTION FORCES                           |                             | BY STEEL GAUGE.                                                                                      |      |                  | INSERTION FORCE: N MAX.<br>EXTRACTION FORCE: N MIN.                                                                                                                              |                          |                    | —                       | —    |
| INSERTION AND WITHDRAWAL FORCES                                   |                             | MEASURED BY APPLICABLE CONNECTOR.                                                                    |      |                  | INSERTION FORCE: (0.7 × ※※) N MAX.<br>WITHDRAWAL FORCE: (0.065 × ※※) N MIN.                                                                                                      |                          |                    | ○                       | —    |
| MECHANICAL OPERATION                                              |                             | 50 TIMES INSERTION AND EXTRACTIONS.                                                                  |      |                  | 1) CONTACT RESISTANCE: 55 mΩ MAX.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PART.                                                                                                  |                          |                    | ○                       | —    |
| VIBRATION                                                         |                             | FREQUENCY: 10 TO 55 Hz,<br>SINGLE AMPLITUDE: 0.75 mm, - m/s <sup>2</sup><br>AT 2 h FOR 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.                                                        |                          |                    | ○                       | —    |
| 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: 55 mΩ MAX.<br>2) INSULATION RESISTANCE: 100 MΩ MIN.                                                                                                       |                          |                    | ○                       | —    |
| RAPID CHAGE OF TEMPERTURE                                         |                             | TEMPERTURE -55→+5~+35→+85→+5~+35°C<br>TIME 30→10~15→30→10~15 min.<br>UNDER 5 CYCLES.                 |      |                  | 3) NO DAMAGE, CRACK AND LOOSENESS OF PART.                                                                                                                                       |                          |                    | ○                       | —    |
| DAMP HEAT,CYCLIC                                                  |                             | EXPOSED AT TO °C, TO % TOTAL CYCLES( h).                                                             |      |                  | 1) CONTACT RESISTANCE: mΩ MAX.<br>2) INSULATION RESISTANCE: MΩ MIN.(AT HIGH HUMIDITY)<br>3) INSULATION RESISTANCE: MΩ MIN.(AT DRY)<br>4) NO DAMAGE, CRACK AND LOOSENESS OF PART. |                          |                    | —                       | —    |
| DRY HEAT                                                          |                             | EXPOSED AT °C, h.                                                                                    |      |                  | 1) CONTACT RESISTANCE: mΩ MAX.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PART.                                                                                                     |                          |                    | —                       | —    |
| CORROSION SALT MIST                                               |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.                                                            |      |                  | 1) CONTACT RESISTANCE: 55 mΩ MAX.<br>2) NO HEAVY CORROSION.                                                                                                                      |                          |                    | ○                       | —    |
| HYDROGEN SULPHIDE                                                 |                             | EXPOSED IN 3 PPM FOR 96 h.<br>(TEST STANDARD:JEIDA-38)                                               |      |                  |                                                                                                                                                                                  |                          |                    | ○                       | —    |
| SULPHUR DIOXIDE                                                   |                             | EXPOSED IN PPM FOR h.<br>(TEST STANDARD:JEIDA-39)                                                    |      |                  |                                                                                                                                                                                  |                          |                    | —                       | —    |
| RESISTANCE TO SOLDERING HEAT                                      |                             | SOLDER TEMPERATURE, °C FOR IMMERSION,DURATION, s.                                                    |      |                  | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.                                                                                                                   |                          |                    | —                       | —    |
| SOLDRABILITY                                                      |                             | SOLDERED AT SOLDER TEMPERATURE, °C FOR IMMERSION DURATION, s.                                        |      |                  | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.                                                                                     |                          |                    | —                       | —    |
| REMARKS                                                           |                             |                                                                                                      |      | DRAWN            | DESIGNED                                                                                                                                                                         | CHECKED                  | APPROVED           | RELEASED                |      |
|                                                                   |                             |                                                                                                      |      | <i>G. Morita</i> | <i>J. Matsukawa</i>                                                                                                                                                              | <i>M. Tomita</i>         | <i>J. Yamamura</i> |                         |      |
| UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.                  |                             |                                                                                                      |      | '95.10.31        | '95.10.31                                                                                                                                                                        | '95.11.1                 | '95.11.1           |                         |      |
| NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST ○: APPLICABLE TEST |                             |                                                                                                      |      |                  |                                                                                                                                                                                  |                          |                    |                         |      |
| <b>HS</b>                                                         |                             | HIROSE ELECTRIC CO.,LTD.                                                                             |      |                  | SPECIFICATION SHEET                                                                                                                                                              |                          |                    | PART NO. FX8-※※S-SV(21) |      |
| CODE NO.(OLD)                                                     |                             | DRAWING NO.                                                                                          |      |                  | CODE NO.                                                                                                                                                                         |                          |                    | 1                       |      |
| CL                                                                |                             | SLC4-150730-01                                                                                       |      |                  | CL 578 -                                                                                                                                                                         |                          |                    | 1                       |      |