

| COUNT   | DESCRIPTION OF REVISIONS    | BY   | CHKD | DATE                       | COUNT   | DESCRIPTION OF REVISIONS | BY                            | CHKD     | DATE |
|---|-----------------------------|--|------|----------------------------|---|--------------------------|-------------------------------|----------|------|
|   |                             |  |      |                            |   |                          |                               |          |      |
|   |                             |  |      |                            |   |                          |                               |          |      |
| <b>APPLICATION STANDARD</b>                                       |                             |  |      |                            |   |                          |                               |          |      |
| RATING  | OPERATING TEMPERATURE RANGE | -55 °C TO +85 °C   |      |                            |   |                          |                               |          |      |
|   | VOLTAGE                     | 100 V AC   |      |                            |   |                          |                               |          |      |
|   | CURRENT                     | 0.4 A  |      |                            |   |                          |                               |          |      |
| <b>SPECIFICATIONS</b>   |                             |  |      |                            |   |                          |                               |          |      |
| ITEM  |                             | TEST METHOD  |      |                            | REQUIREMENT   |                          |                               | QT       | AT   |
| <b>CONSTRUCTION</b>   |                             |  |      |                            |   |                          |                               |          |      |
| GENERAL EXAMINATION   |                             | VISUALLY AND BY MEASURING INSTRUMENT.  |      |                            | ACCORDING TO DRAWING  |                          |                               | X        | X    |
| MARKING   |                             | CONFIRMED VISUALLY   |      |                            |   |                          |                               | X        | X    |
| <b>ELECTRICAL CHARACTERISTICS</b>                                 |                             |  |      |                            |   |                          |                               |          |      |
| 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        | —    |
| <b>MECHANICAL CHARACTERISTICS</b>                                 |                             |  |      |                            |   |                          |                               |          |      |
| INSERTION AND WITHDRAWAL FORCES                                   |                             | MEASURED BY APPLICABLE CONNECTOR.  |      |                            | INSERTION FORCE: 98 N MAX.<br>WITHDRAWAL FORCE: 9.1 N MIN.  |                          |                               | X        | —    |
| MECHANICAL OPERATION  |                             | 50 TIMES INSERTION 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, - m/s <sup>2</sup><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        | —    |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                              |                             |  |      |                            |   |                          |                               |          |      |
| 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.  |                          |                               | X        | —    |
| RAPID CHAGE OF TEMPERATURE  |                             | TEMPERATURE -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.  |                          |                               | 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 |      |
|   |                             |  |      | M. Nagata                  | M. Nagata   | H. Okawa                 | J. Yoshimura                  |          |      |
| UNLESS OTERWISE SPECIFIED, REFER TO JIS C 5402.                   |                             |  |      | 01.04.06                   | 01.04.06  | 01.04.06                 | 01.04.06                      |          |      |
| NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST |                             |  |      |                            |   |                          |                               |          |      |
| <b>HS</b> HIROSE ELECTRIC CO., LTD.                               |                             |  |      | <b>SPECIFICATION SHEET</b> |   |                          | PART NO. FX8 - 140S - SV (23) |          |      |
| CODE NO.(OLD)   |                             | DRAWING NO.  |      | CODE NO.                   |   | 1                        |                               | 1        |      |
| CL  |                             | ELC4 - 150678 - 02   |      | CL 578 - 0207 - 1 - 23     |   |                          |                               |          |      |

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