

| COUNT   | DESCRIPTION OF REVISIONS    | BY  | CHKD | DATE                | COUNT  | DESCRIPTION OF REVISIONS | BY                          | CHKD     | DATE |
|---|-----------------------------|---|------|---------------------|--|--------------------------|-----------------------------|----------|------|
| △ 2   | RE-F-09653                  | K.N   | H.Y  | 04.04.06            | △  |                          |                             |          |      |
| △ 1   | RE-F-10251                  | K.D   | H.O  | 05.02.02            | △  |                          |                             |          |      |
| APPLICABLE STANDARD   |                             |   |      |                     |  |                          |                             |          |      |
| RATING  | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C   |      |                     | STORAGE TEMPERATURE RANGE  | -10 °C TO 60 °C          |                             |          |      |
|   | VOLTAGE                     | 100 V AC  |      |                     | OPERATING HUMIDITY RANGE   | 40 % TO 80 %             |                             |          |      |
|   | CURRENT                     | 0.4 A   |      |                     | STORAGE HUMIDITY RANGE   | 40 % TO 70 %             |                             |          |      |
| 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).   |      |                     | 80 mΩ MAX. (1)   |                          |                             | ×        |      |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD   |                             | 20 mV MAX, 1 mA(DC OR 1000Hz)   |      |                     | 100 mΩ MAX. (2)  |                          |                             | ×        |      |
| INSULATION RESISTANCE   |                             | 250 V DC.   |      |                     | 100 MΩ MIN.  |                          |                             | ×        |      |
| VOLTAGE PROOF   |                             | 300 V AC FOR 1 min.   |      |                     | NO FLASHOVER OR BREAKDOWN.   |                          |                             | ×        |      |
| MECHANICAL CHARACTERISTICS  |                             |   |      |                     |  |                          |                             |          |      |
| MECHANICAL OPERATION  |                             | 50 TIMES INSERTIONS AND EXTRACTIONS.  |      |                     | ① CONTACT RESISTANCE: 100 mΩ MAX. (2)<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.          |                          |                             | ×        |      |
| VIBRATION   |                             | FREQUENCY 10 TO 55 Hz,<br>AMPLITUDE : 1.5 mm,<br>AT 2 h FOR 3 DIRECTION.                                    |      |                     | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② CONTACT RESISTANCE: 100 mΩ MAX. (2)              |                          |                             | ×        |      |
| SHOCK   |                             | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.                              |      |                     | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   |                          |                             | ×        |      |
| ENVIRONMENTAL CHARACTERISTICS   |                             |   |      |                     |  |                          |                             |          |      |
| DAMP HEAT (STEADY STATE)  |                             | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.  |      |                     | ① CONTACT RESISTANCE: 100 mΩ MAX. (2)<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.   |                          |                             | ×        |      |
| CORROSION SALT MIST   |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.   |      |                     | ① CONTACT RESISTANCE: 100 mΩ MAX. (2)<br>② NO HEAVY CORROSION.                               |                          |                             | ×        |      |
| HYDROGEN SULPHIDE   |                             | EXPOSED IN 3 PPM FOR 96 h.<br>(TEST STANDARD: JEIDA-38)   |      |                     |  |                          |                             | ×        |      |
| 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 DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.                              |                          |                             | ×        |      |
| SOLDERABILITY △   |                             | SOLDERED AT SOLDER TEMPERATURE, 240 ± 3°C,<br>△ FOR IMMERSION DURATION, 3 s.                                |      |                     | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. |                          |                             | ×        |      |
| REMARKS (1) THIS CONNECTOR'S INITIAL CONTACT RESISTANCE SHALL BE 80 mΩ, BECAUSE OF THE BULK RESISTANCE OF STACKING HEIGHT 16 mm TYPE.<br>(2) AFTER TEST, THE CHANCE OF THE CONTACT RESISTANCE SHALL BE 20 mΩ MAX. |                             |   |      |                     |  |                          |                             |          |      |
|   |                             |   |      | DRAWN               | DESIGNED   | CHECKED                  | APPROVED                    | RELEASED |      |
|   |                             |   |      | S.SUZUKI            | K.NAKAMURA   | H.OKAWA                  | Y.SYOSHIMURA                |          |      |
|   |                             |   |      | 03.02.13            | 03.02.13   | 03.02.14                 | 03.02.15                    |          |      |
| Unless otherwise specified, refer to JIS C 5402.  |                             |   |      |                     |  |                          |                             |          |      |
| Note QT:Qualification Test AT:Assurance Test ×:Applicable Test  |                             |   |      |                     |  |                          |                             |          |      |
| <b>HS</b> HIROSE ELECTRIC CO., LTD.   |                             |   |      | SPECIFICATION SHEET |  |                          | PART NO.<br>FX8C-※※P-SV(93) |          |      |
| CODE NO.(OLD)   |                             | DRAWING NO.   |      |                     | CODE NO.   |                          |                             |          |      |
| CL  |                             | ELC4 - 151020- 23   |      |                     | CL 578   |                          |                             |          |      |
|   |                             |   |      |                     | 1<br>1   |                          |                             |          |      |