

| 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. <sup>(1)</sup>                                                                      | ×        |                 |          |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD                                                                                                                                                                                               | 20 mV MAX, 1 mA(DC OR 1000Hz)                                                                             | 100 mΩ MAX. <sup>(2)</sup>                                                                     | ×        |                 |          |
| INSULATION RESISTANCE                                                                                                                                                                                                                   | 250 V DC.                                                                                                 | 100 MΩ MIN.                                                                                    | ×        |                 |          |
| VOLTAGE PROOF                                                                                                                                                                                                                           | 300 V AC FOR 1 min.                                                                                       | NO FLASHOVER OR BREAKDOWN.                                                                     | ×        |                 |          |
| MECHANICAL CHARACTERISTICS                                                                                                                                                                                                              |                                                                                                           |                                                                                                |          |                 |          |
| 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 INSERTIONS AND EXTRACTIONS.                                                                      | ① CONTACT RESISTANCE: 100 mΩ MAX. <sup>(2)</sup><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. <sup>(2)</sup>     | ×        |                 |          |
| 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. <sup>(2)</sup><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. <sup>(2)</sup><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                                                                                                                                                                                                                           | ① SOLDERED AT SOLDER TEMPERATURE, 240 ± 3°C,<br>② FOR IMMERSION DURATION, 3 s.                            | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.   | ×        |                 |          |
| REMARKS <sup>(1)</sup> THIS CONNECTOR'S INITIAL CONTACT RESISTANCE SHALL BE 80 mΩ, BECAUSE OF THE BULK RESISTANCE OF STACKING HEIGHT 16 mm TYPE.<br><sup>(2)</sup> 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.YOSHIMURA     |          |
| 03.02.07                                                                                                                                                                                                                                |                                                                                                           | 03.02.17                                                                                       | 03.02.18 | 03.02.19        |          |
| Unless otherwise specified, refer to JIS C 5402.                                                                                                                                                                                        |                                                                                                           |                                                                                                |          |                 |          |
| Note QT:Qualification Test AT:Assurance Test ×:Applicable Test                                                                                                                                                                          |                                                                                                           |                                                                                                |          |                 |          |
| HRS HIROSE ELECTRIC CO., LTD.                                                                                                                                                                                                           |                                                                                                           | SPECIFICATION SHEET                                                                            |          | PART NO.        |          |
|                                                                                                                                                                                                                                         |                                                                                                           |                                                                                                |          | FX8C-※※S-SV(93) |          |
| CODE NO.(OLD)                                                                                                                                                                                                                           |                                                                                                           | DRAWING NO.                                                                                    |          | CODE NO.        |          |
| CL                                                                                                                                                                                                                                      |                                                                                                           | ELC4 - 151022- 23                                                                              |          | CL 578          |          |
|                                                                                                                                                                                                                                         |                                                                                                           |                                                                                                |          | 1/1             |          |