

| APPLICABLE STANDARD                                                                                                                                                                 |                             |                                                                                                           |  |                                                                                              |                                |                |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------|--------------------------------|----------------|----|
| RATING                                                                                                                                                                              | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C <sup>(1)</sup>                                                                            |  | STORAGE TEMPERATURE RANGE                                                                    | -10 °C TO 60 °C <sup>(2)</sup> |                |    |
|                                                                                                                                                                                     | VOLTAGE                     | 100 V AC                                                                                                  |  | OPERATING HUMIDITY RANGE                                                                     | 40 % TO 80 %                   |                |    |
|                                                                                                                                                                                     | CURRENT                     | 0.5 A                                                                                                     |  | STORAGE HUMIDITY RANGE                                                                       | 40 % TO 70 % <sup>(2)</sup>    |                |    |
| 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).                                                                                   |  | 40 mΩ MAX.                                                                                   |                                | ×              |    |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD                                                                                                                                           |                             | 20 mV MAX, 1 mA(DC OR 1000Hz)                                                                             |  | 50 mΩ MAX.                                                                                   |                                | ×              |    |
| INSULATION RESISTANCE                                                                                                                                                               |                             | 250 V DC                                                                                                  |  | 100 MΩ MIN.                                                                                  |                                | ×              |    |
| VOLTAGE PROOF                                                                                                                                                                       |                             | 300 V AC FOR 1 min.                                                                                       |  | NO FLASHOVER OR BREAKDOWN.                                                                   |                                | ×              |    |
| MECHANICAL CHARACTERISTICS                                                                                                                                                          |                             |                                                                                                           |  |                                                                                              |                                |                |    |
| MATING AND UNMATING FORCES                                                                                                                                                          |                             | MEASURED BY APPLICABLE CONNECTOR.                                                                         |  | INSERTION FORCE : (0.88 × **) N MAX.<br>EXTRACTION FORCE : (0.1 × **) N MIN.                 |                                | ×              |    |
| MECHANICAL OPERATION                                                                                                                                                                |                             | 100 TIMES INSERTIONS AND EXTRACTIONS.                                                                     |  | ① CONTACT RESISTANCE: 50 mΩ MAX.<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 NO DAMAGE, CRACK AND LOOSENESS OF PARTS.         |                                | ×              |    |
| 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: 50 mΩ MAX.<br>② INSULATION RESISTANCE: 100 MΩ MIN.                     |                                | ×              |    |
| RAPID CHANGE OF TEMPERATURE                                                                                                                                                         |                             | TEMPERATURE-55 → +15 ~ +35 → +85 → +15 ~ +35 °C<br>TIME 30 → MAX 5 → 30 → MAX 5 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: 50 mΩ MAX.<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 °C,<br>FOR IMMERSION DURATION, 3 sec..                                |  | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. |                                | ×              |    |
|                                                                                                                                                                                     |                             |                                                                                                           |  |                                                                                              |                                |                |    |
|                                                                                                                                                                                     | COUNT                       | DESCRIPTION OF REVISIONS                                                                                  |  | DESIGNED                                                                                     | CHECKED                        | DATE           |    |
| △                                                                                                                                                                                   |                             |                                                                                                           |  |                                                                                              |                                |                |    |
| REMARK <sup>(1)</sup> TEMPERATURE RISE INCLUDED WHEN ENERGIZED.<br><sup>(2)</sup> THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. |                             |                                                                                                           |  | APPROVED                                                                                     | HS. OKAWA                      | 05.07.23       |    |
|                                                                                                                                                                                     |                             |                                                                                                           |  | CHECKED                                                                                      | HS. OZAWA                      | 05.07.23       |    |
|                                                                                                                                                                                     |                             |                                                                                                           |  | DESIGNED                                                                                     | TH. NODA                       | 05.07.23       |    |
| Unless otherwise specified, refer to MIL-STD-1344.                                                                                                                                  |                             |                                                                                                           |  | DRAWN                                                                                        | AK. SUZUKAWA                   | 05.07.23       |    |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                      |                             |                                                                                                           |  | DRAWING NO.                                                                                  |                                | ELC4-071178-25 |    |
| HRS                                                                                                                                                                                 | SPECIFICATION SHEET         |                                                                                                           |  | PART NO.                                                                                     | FX6-*S-0.8SV2(71)              |                |    |
|                                                                                                                                                                                     | HIROSE ELECTRIC CO., LTD.   |                                                                                                           |  | CODE NO.                                                                                     | △ 1/1                          |                |    |