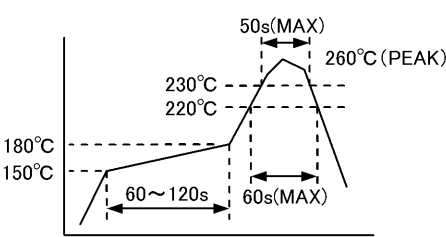



| APPLICABLE STANDARD  |                             |  |             |   |                                |
|--|-----------------------------|--|-------------|---|--------------------------------|
| RATING   | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C <sup>(1)</sup>   |             | STORAGE TEMPERATURE 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.   | x x                            |
| MARKING  |                             | CONFIRMED VISUALLY.  |             |   | x x                            |
| ELECTRIC CHARACTERISTICS   |                             |  |             |   |                                |
| CONTACT RESISTANCE   |                             | 20 mV MAX, 1 mA(DC OR 1000Hz)  |             | 60 mΩ MAX. <sup>(3)</sup>   | x                              |
| INSULATION RESISTANCE  |                             | 100 V DC.  |             | 500 MΩ MIN.   | x                              |
| VOLTAGE PROOF  |                             | 300 V AC FOR 1 min.  |             | NO FLASHOVER OR BREAKDOWN.  | x                              |
| MECHANICAL CHARACTERISTICS   |                             |  |             |   |                                |
| INSERTION AND WITHDRAWAL FORCES  |                             | MEASURED BY APPLICABLE CONNECTOR.  |             | INSERTION FORCE: 24.6 N MAX.<br>WITHDRAWAL FORCE: 2.05 N MIN.   | x                              |
| MECHANICAL OPERATION   |                             | 50 TIMES INSERTIONS AND EXTRACTIONS.   |             | ① CONTACT RESISTANCE: 80 mΩ MAX. <sup>(3)</sup><br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   | x                              |
| VIBRATION  |                             | FREQUENCY 10 TO 55 Hz,<br>SINGL AMPLITUDE : 0.76 mm,<br>AT 2 h FOR 3 DIRECTION.  |             | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.  | x                              |
| SHOCK  |                             | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.   |             |   | x                              |
| ENVIRONMENTAL CHARACTERISTICS  |                             |  |             |   |                                |
| DAMP HEAT (STEADY STATE)   |                             | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.   |             | ① CONTACT RESISTANCE: 80 mΩ MAX. <sup>(3)</sup><br>② INSULATION RESISTANCE: 500 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x                              |
| DRY HEAT   |                             | EXPOSED AT 85±2 °C, 96 h   |             |   | x                              |
| RAPID CHANGE OF TEMPERATURE  |                             | TEMPERATURE -55→+5~+35→+85→+5~+35°C<br>TIME 30→ 5 MAX→ 30→ 5 MAX min.<br>UNDER 5 CYCLES.   |             |   | x                              |
| CORROSION SALT MIST  |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.  |             | ① CONTACT RESISTANCE: 80 mΩ MAX. <sup>(3)</sup><br>② NO HEAVY CORROSION.  | x                              |
| SULFUR DIOXIDE   |                             | EXPOSED IN 10 PPM FOR 96 h.<br>(TEST STANDARD: JIS-C-0090)   |             |   | x                              |
| RESISTANCE TO SOLDERING HEAT   |                             | 1)REFLOW SOLDERING :<br>REFLOW 2 TIMES UNDER THE TEMPERATURE PROFILE SHOWN BELOW.<br><br>2) SOLDERING IRONS : 360°C MAX. FOR 5 sec. |             | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.  | x                              |
| SOLDERABILITY  |                             | SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION, 3 sec.  |             | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.   | x                              |
| COUNT  | DESCRIPTION OF REVISIONS    |  | DESIGNED    | CHECKED   | DATE                           |
| △  |                             |  |             |   |                                |
| REMARKS <sup>(1)</sup> INCLUDE TEMPRERATURE RISE CAUSED BY CURRENT-CARRYING.<br><sup>(2)</sup> "STORAGE" MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB.<br><sup>(3)</sup> INCLUDE CONDUCTOR RESISTANCE OF CABLE IN CASE THE MATED CONNECTOR IS CABLE TYPE.(L=12mm)<br>Unless otherwise specified, refer to JIS-C-5402. |                             |  | APPROVED    | HS. OKAWA   | 05. 08. 05                     |
|  |                             |  | CHECKED     | HT. YAMAGUCHI   | 05. 08. 05                     |
|  |                             |  | DESIGNED    | KN. SHIBUYA   | 05. 08. 05                     |
|  |                             |  | DRAWN       | KN. SHIBUYA   | 05. 08. 05                     |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test   |                             |  | DRAWING NO. |   | ELC4-155937-00                 |
|   |                             | SPECIFICATION SHEET  |             | PART NO. FX15S-41S-0. 5SH   |                                |
| HIROSE ELECTRIC CO., LTD.  |                             | CODE NO.   |             | CL575-2307-8-00   | △ 1/1                          |