| APPLICABLE STANDARD | | | | |
|---|---|---|---|---|
| RATING | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C (1) | STORAGE TEMPERATURE RANGE | -10 °C TO 60 °C (2) |
| | VOLTAGE | 100 V AC | OPERATING HUMIDITY RANGE | 40 % TO 80 % |
| | CURRENT | 0.5 A | STORAGE HUMIDITY RANGE | 40 % TO 70 % (2) |

## 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** | | | | |
| INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR. | INSERTION FORCE : 17.6 N MAX.<br>WITHDRAWAL FORCE : 2.0 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 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| SHOCK | 490 m/s$^2$, 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 | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | × | — |
| | 2) SOLDERING IRONS : 360 °C,<br>FOR 5 s | | × | — |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE,<br>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. | × | — |

| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| △0 | | | | | |

REMARK (1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED.
(2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.

Unless otherwise specified, refer to MIL-STD-1344.

| | | |
|---|---|---|
| APPROVED | HS. OKAWA | 08. 03. 21 |
| CHECKED | HS. OZAWA | 08. 03. 21 |
| DESIGNED | SY. KAMIGA | 08. 03. 21 |
| DRAWN | HK. SUNADORI | 08. 03. 19 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-071318-23

| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | FX6A-20S-0.8SV2(93) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL576-0321-4-93 △0 | 1/1 |

FORM HD0011-2-1