| APPLICABLE STANDARD | | | | |
|---|---|---|---|---|
| RATING | OPERATING TEMPERATURE RANGE | −55 °C TO 85 °C (1) | OPERATING HUMIDITY RANGE | 40 TO 80 % MAX (3) |
| | VOLTAGE | 100 V AC | STORAGE TEMPERATURE RANGE | −10 °C TO 60 °C (2) |
| | CURRENT | 0.4 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) | 45 mΩ MAX . | × | — |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | 20 mV MAX, 1 mA (DC or 1000Hz) | 55 mΩ MAX. | × | — |
| 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: 55 mΩ MAX.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| VIBRATION | FREQUENCY 10 TO 55 TO 10 Hz,<br>SINGLE AMPLITUDE: 0.75 mm,<br>AT 2 h FOR 3 DIRECTIONS. | 1) NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>2) CONTACT RESISTANCE: 55 mΩ MAX.<br>3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| SHOCK | 490 m/s$^2$, DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 BOTH AXIAL DIRECTIONS. | | × | — |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. | 1) CONTACT RESISTANCE : 55 mΩ MAX.<br>2) INSULATION RESISTANCE: 100 MΩ MIN.<br>3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE: −55 → +85 °C<br>TIME : 30 → 30 min.<br>UNDER 5 CYCLES.<br>(RELOCATION TIME TO CHAMBER:WITHIN 2 TO 3 min) | | × | — |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | 1) CONTACT RESISTANCE : 55 mΩ MAX.<br>2) NO HEAVY CORROSION. | × | — |
| HYDROGEN SULPHIDE | EXPOSED 3 ppm FOR 96 h.<br>(TEST STANDARD:JEIDA-38) | | × | — |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING:<br>PEAK TMP : 250 °C MAX<br>REFLOW TMP: 220 °C MIN FOR 60sec<br>2) SOLDERING IRONS: 360 °C MAX FOR 5 sec. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL. | × | — |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE<br>240 ± 3 °C 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 |
|---|---|---|---|---|---|
| △0 | | | | | |

REMARKS
(1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED.
(2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.
(3) NON-CONDENSING.
Unless otherwise specified, refer to IEC-60512.

| | | |
|---|---|---|
| APPROVED | NH. NAKATA | 16.11.21 |
| CHECKED | HT. YAMAGUCHI | 16.11.21 |
| DESIGNED | MT. ITANO | 16.11.21 |
| DRAWN | MT. ITANO | 16.11.21 |

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

DRAWING NO. ELC-150568-91-00

| | | | |
|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | FX8-140P-SV(91) |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL578-0007-2-91 △0 1/1 |

FORM HD0011-2-1