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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| 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 | 0.4 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 Hz,<br>AMPLITUDE : 1.5 mm,<br>2 hrs IN 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 FOR 3 TIMES IN 3 DIRECTIONS. | | × | |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40±2 °C, 90 ～ 95 %, 96 hrs. | 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→+15～+35→ +85→+15～+35°C<br>TIME 30 → 2～3 → 30 → 2～3 min<br>5 CYCLES. | | × | |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 hrs. | ① CONTACT RESISTANCE: 55 mΩ MAX.<br>② NO HEAVY CORROSION. | × | |
| HYDROGEN SULPHIDE | EXPOSED IN 3 PPM FOR 96 hrs.<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, 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 |
|---|---|---|---|---|---|
| 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 JIS C 5402.

| | | |
|---|---|---|
| APPROVED | HS.OKAWA | 05.09.05 |
| CHECKED | HS.OZAWA | 05.09.05 |
| DESIGNED | TH.NODA | 05.09.05 |
| DRAWN | TH.NODA | 05.09.05 |

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

DRAWING NO. ELC4-150566-23

| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | FX8-100P-SV(93) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL578-0005-7-93 | 0 1/1 |

FORM HD0011-2-1