

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

| APPLICABLE STANDARD | | TEST METHOD | | REQUIREMENTS | | QT | AT |
|--|---|---|---|--|----|--------------------|----|
| 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 | |
| GENERAL EXAMINATION | | VISUALLY AND BY MEASURING INSTRUMENT. CONFIRMED VISUALLY. | | ACCORDING TO DRAWING. | | X | X |
| MARKING | | | | | | X | X |
| ELECTRIC CHARACTERISTICS | | | | | | | |
| CONTACT RESISTANCE | 100 mA (DC OR 1000 Hz). | | 40 mΩ MAX. | | X | - | |
| MILLIVOLT LEVEL METHOD | 20 mV MAX, 1 mA(DC OR 1000Hz) | | 50 mΩ MAX. | | X | - | |
| INSULATION RESISTANCE | 250 V DC | | 100 MΩ MIN. | | X | - | |
| VOLTAGE PROOF | 300 V AC FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | | X | - | |
| MECHANICAL CHARACTERISTICS | | | | | | | |
| MECHANICAL OPERATION | | 100 TIMES INSERTIONS AND EXTRactions. | | ① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | X | - |
| VIBRATION | FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, AT 2 h FOR 3 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | X | - | |
| SHOCK | 490 ms ² , DURATION OF PULSE 11 ms 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: 50 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. | | X | - | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE: 55 → +15 ~ +35 → +85 → +15 ~ +35 °C TIME 30 → MAX 5 → 30 → MAX 5 min UNDER 5 CYCLES. | | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | X | - | |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | | ① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION. | | X | - | |
| HYDROGEN SULPHIDE | EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA 38) | | | | X | - | |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING : 250 °C MAX, : 220 °C MIN, FOR 60 s 2) SOLDERING IRONS : 360 °C, FOR 5 s | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | | X | - | |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 240±3 °C, FOR IMMERSION DURATION, 3 s. | | 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 | | | |
| △ | | | | | | | |
| 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. | | | | | | | |
| Note QT: Qualification Test AT: Assurance Test X: Applicable Test | | DRAWING NO. | | ELC4-084962-23 | | | |
| HRS | | SPECIFICATION SHEET | | PART NO. | | FX6-20P-0.8SV (93) | |
| | | HIROSE ELECTRIC CO., LTD. | | CODE NO. | | QL576-0001-3-93 | |
| | | | | | | △ 1/1 | |
| | | APPROVED | | HS. OKAWA | | 08.12.15 | |
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