

| APPLICABLE STANDARD | | | | | |
|---|-----------------------------|---|-------------|--|--------------------------------|
| RATING | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C ⁽¹⁾ | | STORAGE TEMPERATURE RANGE | -10 °C TO 60 °C ⁽²⁾ |
| | VOLTAGE | 125 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). | | 45 mΩ MAX. | × |
| CONTACT RESISTANCE | | 20 mV MAX, 1 mA(DC OR 1000Hz) | | 55 mΩ MAX. | × |
| MILLIVOLT LEVEL METHOD | | | | | |
| INSULATION RESISTANCE | | 250 V DC | | 100 MΩ MIN. | × |
| VOLTAGE PROOF | | 300 V AC FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | × |
| MECHANICAL CHARACTERISTICS | | | | | |
| MECHANICAL OPERATION | | 500 TIMES INSERTIONS AND EXTRACTIONS. | | ① CONTACT RESISTANCE: 55 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × |
| VIBRATION | | FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.52 mm, AT 2 h FOR 3 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × |
| SHOCK | | 490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | | × |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h. | | ① CONTACT RESISTANCE: 55 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. | × |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE-55→+15~+35→+85→+15~+35°C TIME 30 → 10~15 → 30 → 10~15 min. 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: 55 mΩ MAX. ② NO HEAVY CORROSION. | × |
| HYDROGEN SULPHIDE | | EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA 38) | | | × |
| 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. | × |
| SOLDERABILITY | | SOLDERED AT SOLDER TEMPERATURE, ±3°C, FOR IMMERSION DURATION, 2 s. | | 240 A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | × |
| | | | | | |
| | 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. | | | | APPROVED | HS. OKAWA 06.02.13 |
| | | | | CHECKED | HS. OZAWA 06.02.13 |
| | | | | DESIGNED | KY. NAKAMURA 06.02.10 |
| Unless otherwise specified, refer to MIL-STD-1344. | | | | DRAWN | AK. SUZUKAWA 06.02.09 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-082752-21 |
| HRS | SPECIFICATION SHEET | | PART NO. | FX2-20P-1. 27SVL (71) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL572-2051-7-71 | △ 1/1 |