

| 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 | STRAGE HUMIDITY RANGE | 40 % TO 70 % ⁽²⁾ | |
| SPECIFICATIONS | | | | | |
| ITEM | | TEST METHOD | REQUIREMENTS | QT | AT |
| CONSTRUCTION | | | | | |
| GENERAL EXAMINATION | | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | x | x |
| MARKING | | CONFIRMED VISUALLY. | | x | x |
| ELECTRIC CHARACTERISTICS | | | | | |
| CONTACT RESISTANCE | | 100 mA (DC OR 1000 Hz). | 45 mΩ MAX . | x | — |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | | 20 mV MAX, 1 mA(DC OR 1000Hz) | 55 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 | | | | | |
| INSERTION AND WITHDRAWAL FORCES | | MEASURED BY APPLICABLE CONNECTOR. | INSERTION FORCE: 88.2 N MAX. WITHDRAWAL FORCE: 9.8 N MIN. | x | — |
| MECHANICAL OPERATION | | 500 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 55 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | — |
| 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. | x | — |
| SHOCK | | 490 m/s 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: 55 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. | x | — |
| 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. | x | — |
| CORROSION SALT MIST | | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | ① CONTACT RESISTANCE: 55 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) SOLDER BATH: SOLDER TEMPERATURE, 260±5°C FOR IMMERSION, DURATION, 10±1s. 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, 2 s. | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | 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. | | | APPROVED | HS. OKAWA | 07. 08. 22 |
| | | | CHECKED | HS. OZAWA | 07. 08. 22 |
| | | | DESIGNED | KY. NAKAMURA | 07. 08. 22 |
| | | | DRAWN | TP. MATSUMOTO | 07. 08. 09 |
| Unless otherwise specified, refer to MIL-STD-1344. | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-083226-21 |
| HRS | SPECIFICATION SHEET | | PART NO. | FX2C2-100S-1. 27DSAL (71) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL572-2478-1-71 | △ 1/1 |