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| APPLICABLE STANDARD | | | | | |
| RATING | OPERATING TEMPERATURE RANGE | -55 °C TO +85 °C ⁽¹⁾ | STORAGE TEMPERATURE RANGE | -40°C TO +60 °C ⁽²⁾ | |
| | VOLTAGE | 100 V AC | OPERATING HUMIDITY RANGE | 85 % MAX ⁽³⁾ | |
| | CURRENT | 0.5 A | STORAGE HUMIDITY RANGE | 5 % TO 85 % ⁽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). | 40 mΩ MAX. | x | — |
| CONTACT RESISTANCE | | 20 mV MAX, 1 mA(DC OR 1000Hz) | 50 mΩ MAX. | x | — |
| MILLIVOLT LEVEL METHOD | | | | | |
| 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, SINGLE AMPLITUDE : 0.75 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: 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 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. ⁽³⁾ NON-CONDENSING. Unless otherwise specified, refer to IEC-60512. | | | APPROVED | HS. OKAWA | 15.07.17 |
| | | | CHECKED | HT. YAMAGUCHI | 15.07.17 |
| | | | DESIGNED | MT. ITANO | 15.07.17 |
| | | | DRAWN | KN. YAMAZAKI | 15.07.16 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC-084962-92-22 |
| HRS | SPECIFICATION SHEET | | PART NO. | FX6-20P-0.8SV (92) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL576-0001-3-92 | △ 1/1 |