

| APPLICABLE STANDARD | | | | | |
|---|-----------------------------|---|--|---|----------------|
| RATING | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C ⁽¹⁾ | STORAGE TEMPERATURE RANGE | -10 °C TO 60 °C ⁽²⁾ | |
| | VOLTAGE | 50 V AC | OPERATING HUMIDITY RANGE | 95 % RH MAX. <small>(NO DEW CONDENSATION IS PERMITTED)</small> | |
| | CURRENT | 0.3 A | | | |
| 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). | 60 mΩ MAX. | × | |
| INSULATION RESISTANCE | | 100 V DC | 100 MΩ MIN. | × | |
| VOLTAGE PROOF | | 150 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | × | × |
| MECHANICAL CHARACTERISTICS | | | | | |
| INSERTION AND WITHDRAWAL FORCE | | MEASURED BY APPLICABLE CONNECTOR. | INSERTION FORCE: 60 N MAX. WITHDRAWAL FORCE: 6.5 N MIN. | × | |
| MECHANICAL OPERATION | | 50 TIMES INSERTIONS AND EXTRactions. | ① CONTACT RESISTANCE: 70 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | |
| VIBRATION | | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.75 mm, WITH 10 CYCLES IN 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, 3 TIMES IN 3 DIRECTIONS. | | × | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h. | ① CONTACT RESISTANCE: 70 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. | × | |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE-55→+15~+35→+85→+15~+35°C TIME 30 → 2 ~ 3 → 30 → 2 ~ 3 min. UNDER 5 CYCLES. | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | |
| DRY HEAT | | EXPOSED AT 85 °C, 96h. | ① CONTACT RESISTANCE: 70 mΩ MAX. | × | |
| COLD | | EXPOSED AT -55 °C, 96h. | ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | |
| CORROSION SALT MIST | | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | NO HEAVY CORROSION. | × | |
| SULPHUR DIOXIDE | | EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS C 0090) | ① CONTACT RESISTANCE: 70 mΩ MAX. ② NO HEAVY CORROSION. | × | |
| 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 MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT. | × | |
| SOLDERABILITY | | SOLDERED AT SOLDER TEMPERATURE, 240°C, FOR IMMERSION DURATION, 3 sec. | NO PINHOLE OR DEWETTING ON SOLDERED SURFACE. | × | |
| | | | | | |
| | 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 | 05.09.03 |
| | | | CHECKED | HS. OZAWA | 05.09.02 |
| | | | DESIGNED | TH. NODA | 05.09.02 |
| Unless otherwise specified, refer to JIS C 5402. | | | DRAWN | TH. NODA | 05.09.02 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-151945-25 |
| HRS | SPECIFICATION SHEET | | PART NO. | FX10A-100P/10-SV (71) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL570-0002-8-71 | △ 1/1 |