

| 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 | RELATIVE HUMIDITY 95 % RH MAX. ⁽³⁾ | |
| | CURRENT | 0.3 A | STORAGE HUMIDITY RANGE | 40 °C TO 70 °C ⁽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). | | 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: 100.8 N MAX. WITHDRAWAL FORCE: 4.2 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 DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL. | × | - |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 240°C, FOR IMMERSION DURATION, 3 sec. | | A NEW UNIFORM COATING OF SOLDER SHALL OVER 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. ⁽³⁾ NO DEW CONDENSATION IS PERMITTED. | | | APPROVED | HS. OKAWA | 06.02.06 |
| | | | CHECKED | HS. OZAWA | 06.02.06 |
| | | | DESIGNED | KY. NAKAMURA | 06.02.06 |
| Unless otherwise specified, refer to JIS C 5402. | | | DRAWN | AK. SUZUKAWA | 06.02.03 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-151955-25 |
| | SPECIFICATION SHEET | | PART NO. | FX10A-168P-SV (71) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL570-0044-8-71 | 1/1 |