

| APPLICABLE STANDARD | | | | | |
|--|--|--|---------------------------|---|------------------|
| RATING | OPERATING TEMPERATURE RANGE | -55 °C to 85 °C ⁽¹⁾ | OPERATING HUMIDITY RANGE | RELATIVE HUMIDITY 95 % MAX ⁽³⁾ | |
| | VOLTAGE | 50 V AC | STORAGE TEMPERATURE RANGE | -10 °C to 60 °C ⁽²⁾ | |
| | CURRENT | 0.3 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) | 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 FORCES | 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 TO 10 Hz, SINGLE AMPLITUDE: 0.75 mm, 10 CYCLES FOR 3 AXIAL 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 BOTH AXIAL DIRECTIONS. | | × | — | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 °C, 90 TO 95 %, 96 h. | 1) CONTACT RESISTANCE : 70 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE: -55 → +85 °C TIME : 30 → 30 min. UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER: WITHIN 2 TO 3 min) | | × | — | |
| COLD | EXPOSED AT -55 °C, 96 h | 1) CONTACT RESISTANCE : 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — | |
| DRY HEAT | EXPOSED AT +85 °C, 96 h | | × | — | |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | 1) CONTACT RESISTANCE : 70 mΩ MAX. 2) NO HEAVY CORROSION. | × | — | |
| SULFUR DIOXIDE | EXPOSED 10 ppm FOR 96 h. (TEST STANDARD: JIS C 60068) | | × | — | |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING: PEAK TMP : 250 °C MAX REFLOW TMP: 220 °C MIN FOR 60sec 2) SOLDERING IRONS: 360 °C MAX FOR 5 sec. | 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 COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSUED. | × | — | |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| REMARKS | | | | | |
| (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 | NH. NAKATA | 16.11.10 |
| | | | CHECKED | HT. YAMAGUCHI | 16.11.10 |
| | | | DESIGNED | MT. ITANO | 16.11.10 |
| | | | DRAWN | MT. ITANO | 16.11.10 |
| Note | QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | | ELC-151991-93-00 |
| HRS | SPECIFICATION SHEET | | PART NO. | FX10B-168S-SV (93) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL570-0254-0-93 | 1/1 |