

| APPLICABLE STANDARD | | | | | |
|---|--|--------------------------------|--|--------------------------------|----------------|
| RATING | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C ⁽¹⁾ | STORAGE TEMPERATURE RANGE | -10 °C TO 60 °C ⁽²⁾ | |
| | VOLTAGE | 200 V AC | OPERATING HUMIDITY RANGE | 40 % TO 80 %. | |
| | CURRENT | 1 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. | x | x |
| MARKING | CONFIRMED VISUALLY. | | | x | x |
| ELECTRIC CHARACTERISTICS | | | | | |
| CONTACT RESISTANCE | 100 mA (DC OR 1000 Hz). | | 15 mΩ MAX. | x | — |
| INSULATION RESISTANCE | 500 V DC | | 1000 MΩ MIN. | x | — |
| VOLTAGE PROOF | 650 V AC FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | x | — |
| MECHANICAL CHARACTERISTICS | | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | □0.5±0.002mm BY STEEL GAUGE. | | INSERTION FORCE: 2.45 N MAX. EXTRACTION FORCE: 0.24 N MIN. | x | — |
| MECHANICAL OPERATION | 100 TIMES INSERTIONS AND EXTRACTIONS. | | ①CONTACT RESISTANCE: 20 mΩ MAX. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | — |
| VIBRATION | FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, AT 2 h FOR 3 DIRECTIONS. | | ①NO ELECTRICAL DISCONTINUITY OF 1 μs. ②NO 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. | | ①CONTACT RESISTANCE: 20 mΩ MAX. ②INSULATION RESISTANCE: 1000 MΩ MIN. | x | — |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE-55→+15~+35→+85→+15~+35°C TIME 30 → 5 MAX → 30 → 5 MAX min. UNDER 5 CYCLES. | | ③NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | — |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | | ①CONTACT RESISTANCE: 20 mΩ MAX. ②NO HEAVY CORROSION. | x | — |
| SULPHUR DIOXIDE | EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA - 39) | | | x | — |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING :250 °C MAX, 220 °C MIN, FOR 60 s | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | x | — |
| | 2) SOLDERING IRON :360 °C, FOR 5 s | | | x | — |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 245±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. | | | APPROVED | HS. OKAWA | 13. 02. 08 |
| | | | CHECKED | HT. YAMAGUCHI | 13. 02. 08 |
| | | | DESIGNED | K.J. NISHIWAKI | 13. 02. 08 |
| Unless otherwise specified, refer to MIL-STD-1344. | | | DRAWN | CR. TAKESHIMA | 13. 02. 08 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-082680-21 |
| | SPECIFICATION SHEET | | PART NO. | A3A-20DA-2SV (71) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL621-1148-7-71 | 1/1 |