| APPLICABLE STANDARD | | | | |
|---|---|---|---|---|
| RATING | OPERATING TEMPERATURE RANGE | −55 °C TO 85 °C(1) | STORAGE TEMPERATURE RANGE | −10 °C TO +60 °C(2) |
| | OPERATING HUMIDITY RANGE | 40 % TO 80 % | STORAGE HUMIDITY RANGE | 40 % TO 70 %(2) |
| | VOLTAGE | 200 V AC | APPLICABLE CABLE | — |
| | CURRENT | 1 A | INSULATION | — |

## 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). | 15 mΩ MAX . | × | — |
| INSULATION RESISTANCE | 500 V DC | 1000 MΩ MIN. | × | — |
| VOLTAGE PROOF | 650 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | × | — |
| **MECHANICAL CHARACTERISTICS** | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | □0.5 ± 0.002 mm BY STEEL GAUGE. | INSERTION FORCE : 2.45 N MAX.<br>EXTRACTION FORCE: 0.25 N MIN. | × | — |
| MECHANICAL OPERATION | 100 TIMES INSERTIONS AND EXTRACTIONS. | 1) CONTACT RESISTANCE: 20 mΩ MAX.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| VIBRATION | FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, 2 h IN 3 DIRECTIONS. | 1) NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| SHOCK | 490 $m/s^2$, DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS. | | × | — |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h. | 1) CONTACT RESISTANCE: 20 mΩ MAX.<br>2) INSULATION RESISTANCE: 1000 MΩ MIN. | × | — |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE<br>−65 → +15 TO +35 → +125 → +15 TO +35 °C<br>TIME<br>30 → 10 TO 15 → 30 → 10 TO 15 min.<br>UNDER<br>5 CYCLES. | 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | 1) CONTACT RESISTANCE: 20 mΩ MAX.<br>2) NO HEAVY CORROSION. | × | — |
| SULPHUR DIOXIDE | EXPOSED IN 10 PPM FOR 96 h.<br>(TEST STANDARD: JEIDA − 39) | | × | — |
| RESISTANCE TO SOLDERING HEAT | 1) SOLDER BATH: SOLDER TEMPERATURE, 260±5℃ FOR IMMERSION, DURATION, 10±1s. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | × | — |
| | 2) SOLDERING IRONS : 350℃ FOR 3 s MAX. | | × | — |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 245±3°C, FOR IMMERSION DURATION, 2 s. | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | × | — |

| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| ⚠0 | | | | | |

REMARK
(1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED.
(2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.
Unless otherwise specified, refer to MIL-STD-1344.

| | | |
|---|---|---|
| APPROVED | HS. OKAWA | 15.06.04 |
| CHECKED | HT. YAMAGUCHI | 15.06.04 |
| DESIGNED | MT. ITANO | 15.06.04 |
| DRAWN | MT. ITANO | 15.06.04 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-081239-71-21

| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | A3C-4DA-2DSC(71) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL621-0531-7-71 | ⚠0 1/1 |

FORM HD0011-2-1