

| APPLICABLE STANDARD                     |  |  |                           |                                 |          |
|---|--|--|---------------------------|---------------------------------|----------|
| RATING                                  | OPERATING TEMPERATURE RANGE  | -55 °C TO 85 °C <sup>(1)</sup>   | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C <sup>(2)</sup> |          |
|   | OPERATING HUMIDITY RANGE   | 40 % TO 80 %   | STORAGE HUMIDITY RANGE    | 40 % TO 70 % <sup>(2)</sup>     |          |
|   | VOLTAGE  | 200 V AC   | APPLICABLE CABLE          | —                               |          |
|   | CURRENT  | 1 A  | INSULATION                | —                               |          |
| SPECIFICATIONS                          |  |  |                           |                                 |          |
| ITEM                                    | TEST METHOD  | REQUIREMENTS   | QT                        | AT                              |          |
| <b>CONSTRUCTION</b>                     |  |  |                           |                                 |          |
| GENERAL EXAMINATION                     | VISUALLY AND BY MEASURING INSTRUMENT.  | ACCORDING TO DRAWING.  | ×                         | ×                               |          |
| MARKING                                 | CONFIRMED VISUALLY.  |  | ×                         | ×                               |          |
| <b>ELECTRIC CHARACTERISTICS</b>         |  |  |                           |                                 |          |
| 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.   | ×                         | —                               |          |
| <b>MECHANICAL CHARACTERISTICS</b>       |  |  |                           |                                 |          |
| 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,<br>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 <sup>2</sup> , DURATION OF PULSE 11 ms<br>FOR 3 TIMES IN 3 DIRECTIONS.   |  | ×                         | —                               |          |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>    |  |  |                           |                                 |          |
| 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.<br>3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | ×                         | —                               |          |
| 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.   |  | ×                         | —                               |          |
| 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,<br>260±5°C FOR IMMERSION, DURATION, 10±1s.<br>2) SOLDERING IRONS : 350°C FOR 3 s MAX.  | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.  | ×                         | —                               |          |
| SOLDERABILITY                           | SOLDERED AT SOLDER TEMPERATURE, 245±3°C,<br>FOR IMMERSION DURATION, 2 s.   |  | ×                         | —                               |          |
|   |  |  |                           |                                 |          |
|   | COUNT  | DESCRIPTION OF REVISIONS   | DESIGNED                  | CHECKED                         | DATE     |
| REMARK                                  | (1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED.<br>(2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.<br>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-083492-71-21                |          |
| <b>HRS</b>                              | SPECIFICATION SHEET  |  | PART NO.                  | A3C-50DA-2DSC (71)              |          |
|   | HIROSE ELECTRIC CO., LTD.  |  | CODE NO.                  | CL621-0554-2-71                 | △ 1/1    |