

|   |       |                          |    |      |      |  |       |                          |    |      |      |
|---|-------|--------------------------|----|------|------|--|-------|--------------------------|----|------|------|
|   | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |  | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
| △ |       |                          |    |      |      |  | △     |                          |    |      |      |
| △ |       |                          |    |      |      |  | △     |                          |    |      |      |

|                     |                             |                                |                           |                                |
|---------------------|-----------------------------|--------------------------------|---------------------------|--------------------------------|
| 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> |
|                     | VOLTAGE                     | 200 V AC                       | OPERATING HUMIDITY RANGE  | 40 % TO 80 %                   |
|                     | CURRENT                     | 2 A                            | STORAGE HUMIDITY RANGE    | 40 % TO 70 % <sup>(2)</sup>    |

**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> |  |  |   |  |
| MECHANICAL OPERATION              | 100 TIMES INSERTIONS AND EXTRACTIONS.  | ①CONTACT RESISTANCE: 20 mΩ MAX.<br>②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.       | × |  |
| VIBRATION                         | FREQUENCY 10 TO 55 Hz,<br>AMPLITUDE : 1.5 mm,<br>AT 2 h FOR 3 DIRECTION.       | ①NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>②NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × |  |
| SHOCK                             | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS. |  | × |  |

|                                      |   |  |   |  |
|--------------------------------------|---|--|---|--|
| <b>ENVIRONMENTAL CHARACTERISTICS</b> |   |  |   |  |
| DAMP HEAT (STEADY STATE)             | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.  | ①CONTACT RESISTANCE: 20 mΩ MAX.<br>②INSULATION RESISTANCE: 1000 MΩ MIN.                      | × |  |
| RAPID CHANGE OF TEMPERATURE          | TEMPERATURE-55→+15~+35→+85→+15~+35°C<br>TIME 30 → 5 MAX → 30 → 5 MAX min<br>UNDER 5 CYCLES. | ③NO DAMAGE, CRACK AND LOOSENESS OF PARTS.  | × |  |
| CORROSION SALT MIST                  | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.   | ①CONTACT RESISTANCE: 20 mΩ MAX.<br>②NO HEAVY CORROSION.                                      | × |  |
| HYDROGEN SULPHIDE                    | EXPOSED IN 10 PPM FOR 96 h.<br>(TEST STANDARD: JEIDA-39)                                    |  | × |  |
| RESISTANCE TO SOLDERING HEAT         | 1) REFLOW SOLDERING :250 °C MAX,<br>220 °C MIN,<br>FOR 60 s                                 | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.                              | × |  |
|                                      | 2) SOLDERING IRON 360 °C,<br>FOR 5 s  |  | × |  |
| SOLDERABILITY                        | SOLDERED AT SOLDER TEMPERATURE,<br>245 ± 3 °C FOR IMMERSION DURATION,<br>3 s.(MIL -STD-202) | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMERSSED. | × |  |

|   |                              |  |   |  |          |
|---|------------------------------|--|---|--|----------|
| REMARKS<br>1)TEMPERATURE RISE INCLUDED WHEN ENERGIZED.<br>2)THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. | DRAWN<br>T.NODA<br>'05.03.31 | DESIGNED<br><i>K. Doi</i><br>'05.03.31 | CHECKED<br><i>K. Ogawa</i><br>'05.03.31 | APPROVED<br><i>H. Okawa</i><br>'05.03.31 | RELEASED |
|---|------------------------------|--|---|--|----------|

|  |                                 |                    |                              |  |
|--|---------------------------------|--------------------|------------------------------|--|
| Unless otherwise specified, refer to MIL-STD-1344.             |                                 |                    |                              |  |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |                                 |                    |                              |  |
| <b>HRS</b> HIROSE ELECTRIC CO., LTD.                           | SPECIFICATION SHEET             |                    | PART NO.<br>A3A-**PA-2SV(71) |  |
| CODE NO.(OLD)<br>CL  | DRAWING NO.<br>ELC4 - 082601-21 | CODE NO.<br>CL 621 | 1/1                          |  |

TO  
PCK