

| 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                     | 1 A                                                                                                             |             | STORAGE HUMIDITY RANGE                                                                       | 40 % TO 70 % <sup>(2)</sup>    |
| 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±0.002mm BY STEEL GAUGE.                                                                                    |             | INSERTION FORCE: 2.45 N MAX.<br>EXTRACTION FORCE: 0.25 N MIN.                                | × -                            |
| 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 DIRECTIONS.                                       |             | 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.                                  |             |                                                                                              | × -                            |
| ENVIRONMENTAL CHARACTERISTICS                                                                                                                                                       |                             |                                                                                                                 |             |                                                                                              |                                |
| 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-65→+15~+35→+125→+15~+35°C<br>TIME 30 → 10~15 → 30 → 10~15 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.                                      | × -                            |
| 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 °C FOR IMMERSION, 10±1 s.<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.                                       |             | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | × -                            |
|                                                                                                                                                                                     |                             |                                                                                                                 |             |                                                                                              |                                |
|                                                                                                                                                                                     | COUNT                       | DESCRIPTION OF REVISIONS                                                                                        | DESIGNED    | CHECKED                                                                                      | DATE                           |
| △                                                                                                                                                                                   |                             |                                                                                                                 |             |                                                                                              |                                |
| REMARK <sup>(1)</sup> TEMPERATURE RISE INCLUDED WHEN ENERGIZED.<br><sup>(2)</sup> THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. |                             |                                                                                                                 | APPROVED    | HS. OKAWA                                                                                    | 06.05.20                       |
|                                                                                                                                                                                     |                             |                                                                                                                 | CHECKED     | HS. OZAWA                                                                                    | 06.05.20                       |
|                                                                                                                                                                                     |                             |                                                                                                                 | DESIGNED    | KY. NAKAMURA                                                                                 | 06.05.20                       |
| Unless otherwise specified, refer to MIL-STD-1344.                                                                                                                                  |                             |                                                                                                                 | DRAWN       | KY. NAKAMURA                                                                                 | 06.05.20                       |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                      |                             |                                                                                                                 | DRAWING NO. |                                                                                              | ELC4-081229-21                 |
| HRS                                                                                                                                                                                 | SPECIFICATION SHEET         |                                                                                                                 | PART NO.    | A3C-8DA-2DSA (71)                                                                            |                                |
|                                                                                                                                                                                     | HIROSE ELECTRIC CO., LTD.   |                                                                                                                 | CODE NO.    | CL621-0503-1-71                                                                              | △ 1/1                          |