# APPLICABLE STANDARD

<table>
<thead>
<tr>
<th>RATING</th>
<th>TEMPERATURE RANGE</th>
<th>HUMIDITY RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPERATING</td>
<td><strong>-55 °C TO 85 °C</strong></td>
<td><strong>40 % TO 80 %</strong></td>
</tr>
<tr>
<td>STORAGE</td>
<td><strong>-10 °C TO 60 °C</strong></td>
<td><strong>40 % TO 70 %</strong></td>
</tr>
<tr>
<td>VOLTAGE</td>
<td>200 V AC</td>
<td></td>
</tr>
<tr>
<td>CURRENT</td>
<td>3 A</td>
<td></td>
</tr>
</tbody>
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# SPECIFICATIONS

## 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
- **MECHANICAL OPERATION**
  - 500 TIMES INSERTIONS AND EXTRACEMENTS.
  - CONTACT RESISTANCE: 15 mΩ MAX.
  - NO DAMAGE, CRACK AND LOOSENESS OF PARTS.

## VIBRATION
- FREQUENCY 10 TO 55 Hz
  - AMPLITUDE: 1.5mm
  - AT 2 h FOR 3 DIRECTIONS.
  - NO ELECTRICAL DISCONTINUITY OF 1 μs.
  - NO DAMAGE, CRACK AND LOOSENESS OF PARTS.

## SHOCK
- 490 ms² DURATION OF PULSE 11 ms
  - AT 3 TIMES FOR 3 DIRECTIONS.
  - NO HEAVY CORROSION.

## ENVIRONMENTAL CHARACTERISTICS
- **DAMP HEAT (STEADY STATE)**
  - EXPOSED AT 40 ± 2 °C, 90 ~ 95 %, 96 h.
  - CONTACT RESISTANCE: 15 mΩ MAX.

## RAPID CHANGE OF TEMPERATURE
- TEMPERATURE−65 → 15 → +35 → +125 → +15 → +35°C
  - TIME: 30 → 10 → 15 → 30 → 10 ~ 15 min
  - 5 CYCLES
  - CONTACT RESISTANCE: 15 mΩ MAX.
  - NO DAMAGE, CRACK AND LOOSENESS OF PARTS.

## CORROSION SALT MIST
- EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.
  - CONTACT RESISTANCE: 15 mΩ MAX.
  - NO HEAVY CORROSION.

## HYDROGEN SULPHIDE
- EXPOSED IN 3 FPM FOR 96 h.
  - CONTACT RESISTANCE: 15 mΩ MAX.
  - NO HEAVY CORROSION.

## RESISTANCE TO SOLDERING HEAT
1) SOLDER BATH: SOLDER TEMPERATURE: 260 ± 5°C FOR IMMERSION DURATION 10 ± 1 s.
2) SOLDERING IRONS: 350 °C, FOR 3 s.
- NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.

## 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

<table>
<thead>
<tr>
<th>DESCRIPTION OF REVISIONS</th>
<th>DESIGNED</th>
<th>CHECKED</th>
</tr>
</thead>
<tbody>
<tr>
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## REMARK
- TEMPERATURE RISE INCLUDED WHEN ENERGIZED.
- THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.

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

**QUALIFICATIONS**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>CODE NO.</th>
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<tbody>
<tr>
<td>A1-8PA-2</td>
<td>CL619</td>
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</table>

**DRAWING NO.**

**ELC4-152791-21**