### Applicable standard

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<td>Contact resistance</td>
<td>20mV MAX, 1mA (DC OR 1000 Hz).</td>
<td>5mΩ MAX.</td>
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<td>Frequency 10 to 55 Hz, single amplitude</td>
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<td></td>
<td>0.75 mm, at 2 h, for 3 directions.</td>
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<td>Shock</td>
<td>490 m/s&quot; duration of pulse 11 ms at 3 times for 3</td>
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<tr>
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<td>Time 30 → 5 max → 30 → 5 max min Under 5 cycles.</td>
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<tr>
<td>Damp heat (Steady state)</td>
<td>Exposed at 40 ± 2 ℃, 90 to 95 %, 96 h.</td>
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</table>

Note 1: Include the temperature rising by current.
Note 2: No condensing.
Note 3: Applicable to unused product packaging.

### Specifications

- **Applicable standard**
  - Operating temperature range: -55°C to +85°C (Note 1)
  - Storage temperature range: -10°C to +60°C (Note 3)
  - Operating humidity range: 20% to 80% (Note 2)
  - Storage humidity range: 40% to 70% (Note 3)
  - Voltage: 1000V AC/DC
  - Current: AWG14: 20A/pin, AWG16: 15A/pin
  - Applicable connector: DF22→(D)S→7.92C(28)
  - Applicable cable: UL1015 AWG14, 16

### Construction

- **General examination**: Visually and by measuring instrument.
- **Marking**: Confirmed visually.

### Electric characteristics

- **Contact resistance**: 20mV MAX, 1mA (DC OR 1000 Hz).
- **5mΩ MAX.**

### Mechanical characteristics

- **Contact insertion and extraction forces**: 0.8±0.002 x 1.6±0.002 by steel gauge.
- **Insertion force**: 5.0 N MAX.
- **Extraction force**: 0.3 N MIN.
- **Mechanical operation**: 30 times insertions and extractions.
- **1**: Contact resistance: 10 mΩ MAX.
- **2**: No damage, crack or looseness of parts.
- **Vibration**: Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 2 h, for 3 directions.
- **1**: No electrical discontinuity of 1 µs.
- **2**: No damage, crack or looseness of parts.
- **Shock**: 490 m/s" duration of pulse 11 ms at 3 times for 3 directions.
- **1**: Contact resistance: 10 mΩ MAX.
- **2**: No damage, crack or looseness of parts.

### Environmental characteristics

- **Rapid change of temperature**: Temperature -55 to 5 to 35 to -40 to 5 to 35 ℃
- **Time**: 30 → 5 max → 30 → 5 max min Under 5 cycles.
- **Damp heat (Steady state)**: Exposed at 40 ± 2 ℃, 90 to 95 %, 96 h.
- **1**: Contact resistance: 10 mΩ MAX.
- **2**: No damage, crack or looseness of parts.

### Remarks

Note 1: Include the temperature rising by current.
Note 2: No condensing.
Note 3: Applicable to unused product packaging.

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**Count** | **Description of revisions** | **Designed** | **Checked** | **Date**
---|---|---|---|---
1 | DIS-H-00005935 | TS. KUMAZAWA | SZ. ONO | 20200501

Unless otherwise specified, refer to IEC 60512.