Main Feature

1. AZ Relay Performs high reliability in dry circuit.
2. High density design is available on P.C. Board with size of 10.4x15.4x11.2 in mm and the weight of 3.5 grams.
3. The Employment of 2.54mm terminal pitch is equal to I.C.’s terminal pitch.
4. The low power consumption of AZ-L type and general power consumption type of AZ-D are prepared for user’s wide selection.
5. Complete protective construction is designed from dust and soldering flux. In addition, the plastic sealed type is prepared for washing procedure.

Application

Telecommunication, Domestic Appliances, Office Machine, Audio Equipment, etc.

Contact Rating

- Nominal Load (Resistive Load Cos \( \phi = 1 \))
  - Contact Capacity .................1A at 120VAC.
  - 1A at 24VDC.
- Rated Carrying Current .........1A.
- Max. Allowable Current ......1A.
- Max. Allowable Voltage ......AC 120V, DC 60V.
- Max. Allowable Power Force.130 VA, 30W.
- Min. Switching Load ............DC 1V, 1mA.
- Contact Material .................Ag Alloy.
- Contact Form ...................SPST & SPDT.

Performance (at Initial Value)

- Contact Resistance ...............100m\( \Omega \) Max.@100mA,6VDC
- Operate Time .....................5 mSec. Max. (D Type)
  - 10 mSec. Max. (L Type)
- Release Time .......................4 mSec. Max.
- Dielectric Strength :
  - Between Coil & Contact.......500VAC at 50/60 Hz for one minute.
  - Between Contacts ..........500VAC at 50/60 Hz for one minute.
- Surge Resistance ................1,000V (between coil & contact 1.2x50\( \mu \)Sec.)
- Insulation Resistance ...........100 Mega \( \Omega \) Min. at 500VDC.
- Max. On/Off Switching :
  - Electrical .....................30 Ops per Minute.
  - Mechanical .....................300 Ops per Minute.

- Temperature Range ..........-30 ~ 55\(^\circ\)C (D Type)
  - -30 ~ 75\(^\circ\)C (L Type)
- Humidity Range ...............45 ~ 85% RH.
- Coil Temperature Rise ..........43\(^\circ\)C Max. (D Type)
  - 25\(^\circ\)C Max. (L Type)
- Vibration :
  - Endurance ....................10 to 55 Hz dual amplitude width 1.5mm.
  - Error Operation ..............10 to 55 Hz dual amplitude width 1.5mm.
- Shock :
  - Endurance ....................500 m/S\(^2\) Min.
  - Error Operation ..............100 m/S\(^2\) Min.
- Life Expectancy :
  - Mechanical .................10\(^7\) Operations at No Load condition.
  - Electrical ....................10\(^9\) Operations at Rated Resistive Load.
- Weight ..........................About 3.5 g.

Safety Standard & Its File Number:

- UL .......................E141060
- CSA .........................LR76598
## Coil Specification (at 20°C)

<table>
<thead>
<tr>
<th>Coil Sensitivity</th>
<th>Nominal Voltage (VDC)</th>
<th>Nominal Current (mA)</th>
<th>Pull-In Voltage (VDC)</th>
<th>Power Consumption (W)</th>
<th>Drop-Out Voltage (VDC)</th>
<th>Maximum Allowable Voltage (VDC)</th>
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</thead>
<tbody>
<tr>
<td>AZ-D</td>
<td>3</td>
<td>150</td>
<td>20</td>
<td>Abt. 0.45</td>
<td>70% Maximum</td>
<td>150%</td>
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<td></td>
<td>5</td>
<td>89</td>
<td>56</td>
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<td>5% Minimum</td>
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<td>6</td>
<td>75</td>
<td>80</td>
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<td>9</td>
<td>50</td>
<td>180</td>
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<td></td>
<td>12</td>
<td>37.5</td>
<td>320</td>
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<tr>
<td>AZ-L</td>
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<td>Abt. 0.20</td>
<td>75% Maximum</td>
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<td>120</td>
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<td>5% Minimum</td>
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### Ordering Information:

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<th>AZ</th>
<th>SS</th>
<th>1</th>
<th>12</th>
<th>D</th>
<th>M</th>
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<tbody>
<tr>
<td>SS-Flow Solder Type</td>
<td>SH-Plastic Sealed Type</td>
<td>1-One Pole</td>
<td>3V, 5V, 6V, 9V, 12V, 24V</td>
<td>D-Standard DC coil</td>
<td>L-High Sensitivity DC coil</td>
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### Dimension:

<table>
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<th>AZ-SS/SH</th>
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</thead>
</table>

### Reference Data:

- **Coil Power (W)**
- **Operation (x10)**
- **Current of load (A)**
- **Life expectancy**

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