



## Main Feature

1. AZ Relay Performs high reliability in dry circuit.
2. High density design is available on P.C. Board with size of 15.4x10.4x11.7 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.

## Contact Rating

Load Type	AZ (DM/LM)	AZ (D/L)
Rated Load (Resistive)	1A 120VAC	1A 120VAC
	1A 24VDC	1A 24VDC
Rated Carrying Current	1A	1A
Max. Allowable Voltage	AC 120V	AC 120V
	DC 60V	DC 60V
Max. Allowable Current	1A	1A
Max. Allowable Power Force	120VA	120VA
	24W	24W
Min. Switching Load	DC 1V, 1mA	DC 1V, 1mA
Contact Material	Ag Alloy	Ag Alloy
Contact Form	SPST	SPDT

## Application

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

## Performance (at Initial Value)

- Contact Resistance ..... 100mΩ 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 Strength ..... 1,000V (between coil & contact 1.2x50μSec.)
- Insulation Resistance ..... 100 Mega Ω Min. at 500VDC.
- Max. On/Off Switching :  
Electrical..... 30 Cycles per Minute.  
Mechanical ..... 300 Cycles per Minute.
- Temperature Range..... -30~55°C (D Type)  
-30~75°C (L Type)
- Humidity Range ..... 45~85% RH.
- Coil Temperature Rise ..... 43°C Max. (D Type)  
25°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<sup>2</sup>.  
Error Operation..... 100 m/S<sup>2</sup>.
- Life Expectancy :  
Mechanical ..... 10<sup>7</sup> Operations at No Load condition.  
Electrical ..... 10<sup>5</sup> Operations at Rated Resistive Load.
- Weight..... About 3.5 g.

## Safety Standard & Its File Number

- UL & C-UL ..... E141060
- CQC..... 06001015415

## Coil Specification (at 20°C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega \pm 10\%$ )	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
AZ-D	3	150	20	Abt. 0.45	70% Maximum	5% Minimum	130%
	5	89	56				
	6	75	80				
	9	50	180				
	12	37.5	320				
	24	18.8	1,280				
AZ-L	3	66.7	45	Abt. 0.20	75% Maximum	5% Minimum	130%
	5	40	125				
	6	33.3	180				
	9	22.5	400				
	12	17	700				
	24	8.6	2,800				

## Ordering Information

AZ - SS - 1 12 D M

**Contact Form:**

**Nil:** One Form C

**M:** One Form A

**Coil Type:**

**D:** Standard DC Coil

**L:** High Sensitivity DC Coil

**Coil Voltage:**

**03:** 3V, **05:** 5V, **06:** 6V, **09:** 9V, **12:** 12V, **24:** 24V

**Number of Pole:**

**1:** One Pole

**Type of Sealing:**

**SS:** RT II Flux Proofed Relays

**SH:** RT III Wash Tight Relays

**Type:**

**AZ**

## Classification

Model	AZ			
Coil Sensitivity	Standard Type		High Sensitivity Type	
Contact Form	1C	1A	1C	1A
Flow Solder Type	AZ-SS-1□□D	AZ-SS-1□□DM	AZ-SS-1□□L	AZ-SS-1□□LM
Plastic Sealed Type	AZ-SH-1□□D	AZ-SH-1□□DM	AZ-SH-1□□L	AZ-SH-1□□LM

Dimension ( $\leq 5\text{mm} \pm 0.2\text{mm}$ ,  $> 5\text{mm} \pm 0.3\text{mm}$ , the tolerance of PCB thru hole:  $+0.1\text{mm}$ )

