# 10 AMP MINIATURE POWER RELAY

### **FEATURES**

- · 4 kV dielectric strength
- Epoxy sealed version available
- 4 mm clearance & 6 mm creepage (1 Form A)
- 3 mm clearance & 5 mm creepage (1 Form C)
- UL, CUR file E44211
- TÜV R50304647



#### **CONTACTS**

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load:
	Max. switched power: 150 W or 1400 VA (N.O.) 90 W or 850 VA (N.C.) Max. switched current: 10 A
	Max. switched voltage: 30 VDC* or 277 VAC
	* Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load	
UL	1 Form A 10 A at 125 VAC, resistive, 85°C, 100k cycles 5 A at 277 VAC, resistive, 85°C, 100k cycles
	1/10 HP at 125/250 VAC, 85°C, 100k cycles
	1 Form C - normally open contacts 5 A at 277 VAC, resistive, 85°C, 100k cycles 5 A at 30 VDC, resistive, 85°C, 100k cycles 1/10 HP at 125/250 VAC, 85°C, 100k cycles
	1 Form C - normally closed contacts 3 A at 277 VAC, resistive, 85°C, 100k cycles 3 A at 30 VDC, resistive, 85°C, 100k cycles
ΤÜV	1 Form A 10 A at 125 VAC, resistive, 85°C, 100k cycles 5 A at 277 VAC, resistive, 85°C, 100k cycles
	1 Form C - normally open contacts 5 A at 277 VAC, resistive, 85°C, 100k cycles 5 A at 30 VDC, resistive, 85°C, 100k cycles
	1 Form C - normally closed contacts 3 A at 277 VAC, resistive, 85°C, 100k cycles 3 A at 30 VDC, resistive, 85°C, 100k cycles
Material	Silver tin oxide
Resistance	< 100 milliohms initially (6 V, 1 A voltage drop method)

### **NOTES**

- 1. All values at 20°C (68°F)
- 2. Relay may pull in with less than "Must Operate" value.
- 3. Specifications subject to change without notice.

### **GENERAL DATA**

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at rated load		
Operate Time (max.)	10 ms at nominal cail voltage (standard) 15 ms at nominal coil voltage (sensitive)		
Release Time (max.)	5 ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength (at sea level for 1 min.)	4000 Vrms coil to contact 1000 Vrms between open contacts		
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH		
Dropout	Greater than 10% of nominal coil voltage		
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 85°C (185°F)		
Vibration	1.5 mm DA at 10-55 Hz		
Shock	10 g operating, 100 g damage		
Enclosure	P.B.T. polyester		
Terminals	Tinned copper alloy, P.C.		
Max. Solder Temp.	270°C (518°F)		
Max. Solder Time	5 seconds		
Max. Solvent Temp.	80°C (176°F)		
Max. Immersion Time	30 seconds		
Weight	7 grams		

### COIL

Power	
At Pickup Voltage (typical)	196 mW (standard coil) 113 mW (sensitive coil)
Max. Continuous Dissipation	676 mW at 20°C (68°F) ambient
Temperature Rise (at nominal voltage)	42°C (76°F) standard coil 24°C (44°F) sensitive coil
Temperature	Max. 130°C (266°F)

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## AZ9405.

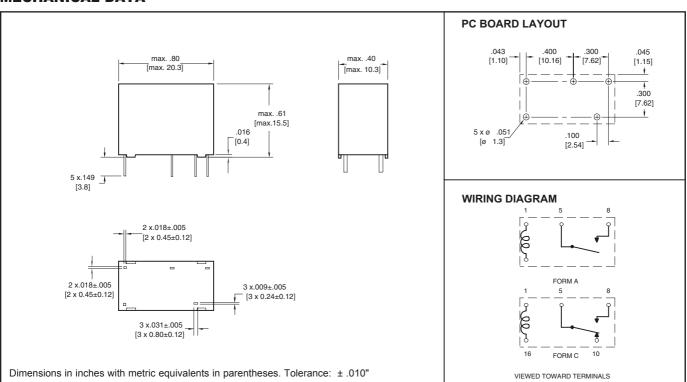
### **RELAY ORDERING DATA**

STANDARD COIL							
COIL SPECIFICATIONS			ORDER NUMBER*				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	Form A (SPST)	Form C (SPDT)		
3	2.1	3.9	22.5	AZ9405-1A-3DF	AZ9405-1C-3DF		
5	3.5	6.5	63	AZ9405-1A-5DF	AZ9405-1C-5DF		
6	4.2	7.8	90	AZ9405-1A-6DF	AZ9405-1C-6DF		
9	6.3	11.7	202.5	AZ9405-1A-9DF	AZ9405-1C-9DF		
12	8.4	15.6	360	AZ9405-1A-12DF	AZ9405-1C-12DF		
18	12.6	23.4	810	AZ9405-1A-18DF	AZ9405-1C-18DF		
24	16.8	31.2	1,440	AZ9405-1A-24DF	AZ9405-1C-24DF		
48	33.6	62.4	5,760	AZ9405-1A-48DF	AZ9405-1C-48DF		

SENSITIVE COIL							
COIL SPECIFICATIONS				ORDER NUMBER*			
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	Form A (SPST)	Form C (SPDT)		
3	2.25	3.9	45	AZ9405-1A-3DSF	AZ9405-1C-3DSF		
5	3.75	6.5	125	AZ9405-1A-5DSF	AZ9405-1C-5DSF		
6	4.50	7.8	180	AZ9405-1A-6DSF	AZ9405-1C-6DSF		
9	6.75	11.7	400	AZ9405-1A-9DSF	AZ9405-1C-9DSF		
12	9.00	15.6	720	AZ9405-1A-12DSF	AZ9405-1C-12DSF		
18	13.50	23.4	1,620	AZ9405-1A-18DSF	AZ9405-1C-18DSF		
24	18.00	31.2	2,800	AZ9405-1A-24DSF	AZ9405-1C-24DSF		

<sup>\*</sup> Add suffix "E" before "F" at the end of order number for sealed version.

### **MECHANICAL DATA**



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