AZ9405

10 AMP MINIATURE POWER RELAY

FEATURES

- 10 Amp switching capability
- SPST-N.O. and SPDT configurations
- 4 kV dielectric strength
- Epoxy sealed version available
- Type F available
- UL, CUR file E44211

CONTACTS

Arrangement	SPST N.O. (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 N.O., 3 A N.C Max. switched voltage: 30 VDC or 277 VAC				
UL, CUR (N.O.)	10 A at 125 VAC, Res., 100k cycles, 85°C 5 A at 277 VAC, Res., 100k cycles, 85°C 5 A at 30 VDC, Res., 100k cycles, 85°C ^{1/10} HP at 125 VAC, 100k cycles, 85°C ^{1/10} HP at 250 VAC, 100k cycles, 85°C				
(N.C.)	3 A at 277 VAC Res., 100k cycles, 85°C 3 A at 30 VDC Res., 100k cycles, 85°C				
Material	Silver tin oxide				
Resistance	< 0.1 Ohm (24 V, 1 A voltage drop method)				

COIL

Power			
At Pickup Voltage (typical)	196 mW (Standard Coil) 113 mW (Sensitive Coil)		
Max. Continuous Dissipation	676 mW at 20°C (68°F)		
Temperature Rise	42°C (76°F) (Standard Coil) 24°C (44°F) (Sensitive Coil)		
Temperature	Max. 130°C (266°F)		

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 5 x 10 ⁶ 1 x 10 ⁵ at 10 A 120 VAC Res.		
Operate Time (max.)	10 ms at nominal coil 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.)	1000 Vrms contact to contact 4000 Vrms contact to coil		
Insulation Resistance	1 x 109 ohms minimum at 500 VDC		
Dropout	Greater than 10% of nominal coil voltage		
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 85° C (185° F) standard -40°C (-40°F) to 85° C (185° F) sensitive		
Vibration			
	0.002 DA at 10-33 Hz		
Snock Operating Mechanical	10 g for 11 ms 1/2 sine pulse (no contact opening >100 usec) 100 g for 11 ms 1/2 sine pulse		
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		





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RELAY ORDERING DATA

COIL SPECIFICATIONS – Standard Coil (SPDT and SPST)				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	SPST-NO	SPDT
3	2.1	3.9	22.5	AZ9405–1A–3D	AZ9405-1C-3D
5	3.5	6.5	62.5	AZ9405–1A–5D	AZ9405-1C-5D
6	4.2	7.8	90	AZ9405–1A–6D	AZ9405-1C-6D
9	6.3	11.7	202.5	AZ9405–1A–9D	AZ9405-1C-9D
12	8.4	15.6	360	AZ9405–1A–12D	AZ9405-1C-12D
18	12.6	23.4	810	AZ9405–1A–18D	AZ9405-1C-18D
24	16.8	31.2	1440	AZ9405–1A–24D	AZ9405-1C-24D
48	33.6	62.4	5760	AZ9405-1A-48D	AZ9405-1C-48D

*Add suffix "E" for sealed version. Add suffix "F" for Type F 155C wire.

COIL SPECIFICATIONS – Sensitive Coil (SPST)				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	Unsealed	Sealed
3	2.3	3.9	45	AZ9405-1A-3DS	AZ9405-1A-3DSE
5	3.8	6.5	125	AZ9405–1A–5DS	AZ9405-1A-5DSE
6	4.5	7.8	180	AZ9405–1A–6DS	AZ9405-1A-6DSE
9	6.8	11.7	400	AZ9405–1A–9DS	AZ9405-1A-9DSE
12	9.0	15.6	720	AZ9405–1A–12DS	AZ9405-1A-12DSE
18	13.5	23.4	1620	AZ9405–1A–18DS	AZ9405-1A-18DSE
24	18.0	31.2	2800	AZ9405–1A–24DS	AZ9405-1A-24DSE

* Add suffix "F" for Type F 155C wire.

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: \pm .010"



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