# AZ940\_

# 10 AMP MINIATURE POWER RELAY

### FEATURES

- 10 Amp switching capability
- SPST-N.O. and SPDT configurations
- 4 kV dielectric strength
- Epoxy sealed version available
- Class B insulated standard, Class F available
- UL, CUR file E44211, VDE file 134326

### CONTACTS

Arrangement	SPST N.O. (1 Form A) SPDT (1 Form C)			
Ratings	Resistive load:			
	Max. switched power: 150 W or 1250 VA N.O. 90 W or 750 VA N.C. Max. switched current: 10 A N.O., 3 A N.C Max. switched voltage: 150 VDC* or 400 VAC			
	*Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.			
UL, CUR (N.O.)	10 A at 125 VAC General Use, 100k cycles 10 A at 277 VAC COS =.4, 10k cycles 5 A at 250 VAC General Use, 100k cycles 5 A at 30 VDC 1/10 HP at 125 VAC, 100k cycles 1/6 HP at 250 VAC, 100k cycles			
	UL, CUR (N.C.)3 A at 250 VAC General Use, 100k cycles3 A at 30 VDC Resistive, 100k cycles			
VDE	Form A N.O.: 5 A 250 VAC Form C N.O.: 5 A 250 VAC Form C N.C.: 3 A 250 VAC			
Material	Silver cadmium oxide or silver nickel			
Resistance	< 0.1 Ohm (24 V, 1 A voltage drop method)			

#### COIL

Power				
At Pickup Voltage (typical)	253 mW (Standard Coil) 113 mW (Sensitive Coil)			
Max. Continuous Dissipation	1.25 W at 20°C (68°F)			
Temperature Rise	40°C (72°F) (Standard Coil) 20°C (36°F) (Sensitive Coil)			
Temperature	Max. 130°C (266°F) Class B Max. 155°C (311°F) Class F			



#### **GENERAL DATA**

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 10 A 120 VAC Res.		
Operate Time (max.)	8 ms at nominal coil voltage		
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 10 <sup>9</sup> ohms minimum at 500 VDC		
Dropout	Greater than 5% of nominal coil voltage		
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 90°C (194°F) Class B -40°C (-40°F) to 110°C (230°F) Class F -40°C (-40°F) to 130°C (266°F) Class B -40°C (-40°F) to 155°C (311°F) Class F		
Vibration	0.062" DA at 10–55 Hz		
Shock 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		

#### 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.



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## **RELAY ORDERING DATA**

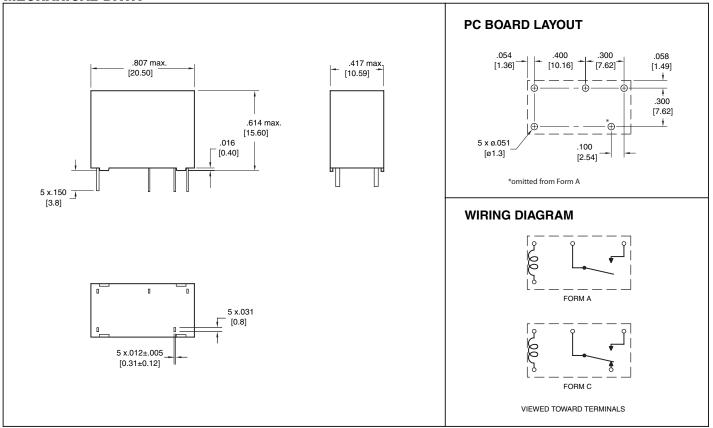
COIL SPECIFICATIONS – Standard Coil (SPDT and SPST)				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	SPST-NO	SPDT
3	2.3	5.0	20	AZ940–1A–3D	AZ940-1C-3D
5	3.8	8.3	55	AZ940–1A–5D	AZ940-1C-5D
6	4.5	10.0	80	AZ940–1A–6D	AZ940-1C-6D
9	6.8	15.0	180	AZ940–1A–9D	AZ940-1C-9D
12	9.0	20.0	320	AZ940–1A–12D	AZ940-1C-12D
18	13.5	30.0	720	AZ940–1A–18D	AZ940-1C-18D
24	18.0	40.0	1280	AZ940–1A–24D	AZ940-1C-24D

\*For silver nickel contacts substitute "-1AB" for "-1A" or "-1CB" for "-1C". Add suffix "E" for sealed version. Add suffix "G" for gold plating. Add suffix "F" for Class F. Class F not VDE approved.

COIL SPECIFICATIONS – Sensitive Coil (SPST)				ORDER NUMBER**	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	Unsealed	Sealed
3	2.3	7.5	45	AZ940–1A–3DS	AZ940-1A-3DSE
5	3.8	12.5	125	AZ940-1A-5DS	AZ940-1A-5DSE
6	4.5	15.0	180	AZ940-1A-6DS	AZ940-1A-6DSE
9	6.8	22.4	400	AZ940-1A-9DS	AZ940-1A-9DSE
12	9.0	30.0	720	AZ940–1A–12DS	AZ940-1A-12DSE
18	13.5	44.7	1600	AZ940-1A-18DS	AZ940-1A-18DSE
24	18.0	59.2	2800	AZ940-1A-24DS	AZ940-1A-24DSE

\*\*For silver nickel contacts substitute "-1AB" for "-1A". Add suffix "G" for gold plating. Add suffix "F" for Class F. Class F not VDE approved.

#### **MECHANICAL DATA**



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



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