AZ9481.

16 AMP LOW PROFILE POWER RELAY

FEATURES

- High power switching (4000 VA)
- High sensitivity, 128 mW pickup
- Low profile (less than .5" height)
- SPST (1 Form A) and SPDT (1 Form C)
- Epoxy sealed versions available
- DC coils up to 48 VDC
- UL file E43203



Arrangement	SPST (1 Form A) SPDT (1 Form C)				
Ratings	Resistive load:				
Standard 1 Form A	Max. switched power: 300 W, 2500 VA Max. switched current: 10 A Max. switched voltage: 250 VAC / 30 VDC				
High Capacity 1 Form A	Max. switch power: 300 W, 4000 VA Max. switch current: 16 A Max. switched voltage: 250 VAC / 30 VDC				
1 Form C	Max. switched power: 300 / 180 W, 2500 / 1500 VA (N.O./N.C.) Max. switched current: 10 / 6 A (N.O./N.C.) Max. switched voltages: 250 VAC / 30 VDC				
Rated Load UL	Standard 1 Form A 10 A at 250 VAC Res. 100k cycles 10 A at 30 VDC Res. 100k cycles TV-5				
	High Capacity 1 Form A 16 A at 125 VAC Res. 100k cycles 10 A at 30 VDC Res. 100k cycles TV-5				
UL Pending	Standard 1 Form C 10 / 6 A (N.O./N.C.) at 250 VAC Res. 100k cycles 10 / 6 A (N.O./N.C.) at 30 VDC Res. 100k cycles * All UL ratings at 85°C				
Material	Silver cadmium oxide, silver tin oxide or silver nickel. Gold plating available.				
Resistance	< 100 milliohms initially (6 V, 1 A voltage drop method)				

COIL

Power At Pickup Voltage (typical)	128 mW
Max. Continuous Dissipation	.45 W at 20°C (68°F)
Temperature Rise	35°C (63°F) at nominal coil voltage
Temperature	Max. 155°C (333°F)



GENERAL DATA

Life Expectancy	Minimum operations		
Mechanical	Minimum operations 1 x 10 ⁷		
Electrical	1 x 10 ⁵ 10 A 250 VAC Res.		
Operate Time (typical)	10 ms at nominal coil voltage		
Release Time (typical)	5 ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength (at sea level for 1 min.)	2500 Vrms coil to contact 1000 Vrms contact to contact		
Insulation Resistance	100 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)		
Storage	-40°C (-40°F) to 155°C (333°F)		
Vibration	0.062" DA at 10-55 Hz		
Shock	10 g operational, 100g destructive		
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	8 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 SPST-NO (1 Form A)				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ±10%	AgCdO Contacts	AgSnO ₂ Contacts
5	4	7.5	125	AZ9481-1A-5D	AZ9481-1AE-5D
6	4.8	9	180	AZ9481-1A-6D	AZ9481-1AE-6D
9	7.2	13.5	405	AZ9481-1A-9D	AZ9481-1AE-9D
12	9.6	18	720	AZ9481-1A-12D	AZ9481-1AE-12D
18	14.4	27	1620	AZ9481-1A-18D	AZ9481-1AE-18D
24	19.2	36	2880	AZ9481-1A-24D	AZ9481-1AE-24D
48	38.4	72	11520	AZ9481-1A-48D	AZ9481-1AE-48D

^{*}Add suffix "E" for epoxy sealed version. Add suffix "A" for gold plated contacts.

COIL SPECIFICATIONS SPST-NO (1 Form A) - HIGH CAPACITY			ORDER NUMBER*		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ±10%	AgCdO Contacts	AgSnO ₂ Contacts
5	4	7.5	125	AZ9481-1AT-5D	AZ9481-1AET-5D
6	4.8	9	180	AZ9481-1AT-6D	AZ9481-1AET-6D
9	7.2	13.5	405	AZ9481-1AT-9D	AZ9481-1AET-9D
12	9.6	18	720	AZ9481-1AT-12D	AZ9481-1AET-12D
18	14.4	27	1620	AZ9481-1AT-18D	AZ9481-1AET-18D
24	19.2	36	2880	AZ9481-1AT-24D	AZ9481-1AET-24D
48	38.4	72	11520	AZ9481-1AT-48D	AZ9481-1AET-48D

^{*}Add suffix "E" for epoxy sealed version. Add suffix "A" for gold plated contacts.

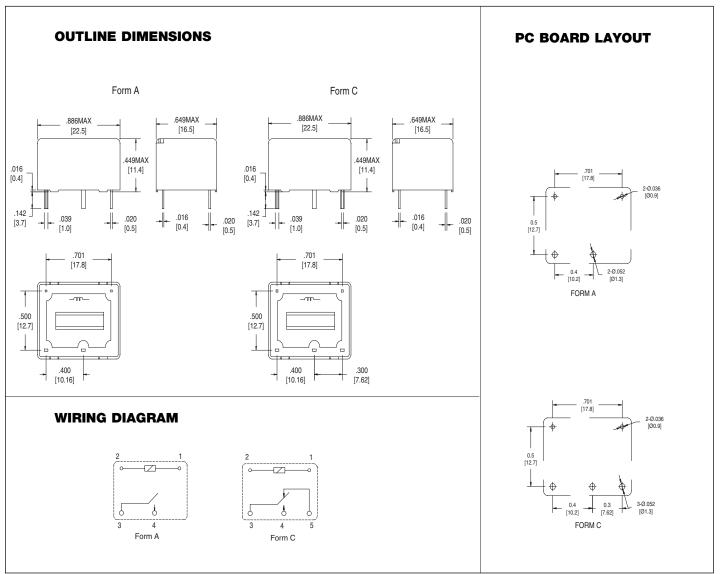
COIL SPECIFICATIONS SPDT (1 Form C)			ORDER NUMBER*		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ±10%	AgNi Contacts	AgSnO ₂ Contacts
5	4	6.5	63	AZ9481-1CB-5D	AZ9481-1CE-5D
6	4.8	7.8	90	AZ9481-1CB-6D	AZ9481-1CE-6D
9	7.2	11.7	203	AZ9481-1CB-9D	AZ9481-1CE-9D
12	9.6	15.6	360	AZ9481-1CB-12D	AZ9481-1CE-12D
18	14.4	23.4	810	AZ9481-1CB-18D	AZ9481-1CE-18D
24	19.2	31.2	1440	AZ9481-1CB-24D	AZ9481-1CE-24D
48	38.4	62.4	5760	AZ9481-1CB-48D	AZ9481-1CE-48D

^{*}Add suffix "E" for epoxy sealed version. Add suffix "A" for gold plated contacts. Note: 1 Form C versions have UL approval pending.



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MECHANICAL DATA



Dimensions in inch with millimeters in brackets below, Tolerance: ±0.010"