AZ21101_

50 AMP MINIATURE POWER RELAY

FEATURES

- Up to 50 Amp switching
- Form A, B and C contacts available
- Class F temperature rating available
- Low cost 30A contact available
- UL, CUR file E44211
- TÜV Pending

CONTACTS

CONTACTS	
Arrangement	SPST (1 Form A, or B) SPDT (1 Form C)
Ratings	Resistive load: Max. soluted power 1200V 200VA Max switched yrrent. NA (Form A) L.x. switched verge: 3c. VAC, 110VDC
UL, CUR	10. 150A at 240VA Resistive [2] 40. 1240VAC, Folistive 30A at 27VAC General Purpose 25A at 2. VAC Resistive, 100k cycles 20A at 240 AC; Resistive, 250k cycles 2HP at 250VAC 5A at 280VAC, Ballast
	NC: 35A at 240VAC, Resistive [2] 30A at 240VAC / 30VDC, Resistive 20A at 277VAC, General Purpose 1.5HP at 250VAC 5A at 280VAC, Ballast
ΤÜV	NO: 40A at 240VAC, 14VDC 30A at 277VAC NC: 30A at 240VAC, 14VDC 30A at 277VAC
Material	Silver cadmium oxide [1], silver tin oxide [2]
Resistance	< 50 milliohms initially (24V, 1A voltage drop method)

COIL

Power					
At Pickup Voltage (typical)	DC: 506mW (30/40A), 844mW (50A) AC: 1.4VA				
Max. Continuous Dissipation	DC: 1.7W at 20°C AC: 2.7VA at 20°C				
Max. 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 ⁷ 1 x 10 ⁵ at 30A 120VAC Res.				
Operate Time	15 msec max. at nominal coil voltage				
Release Time	10 msec max. at nominal coil voltage (without suppression)				
Dielectric Strength (at sea level for 1 min.)	1500Vrms contact to contact 2500Vrms contact to coil 4000Vrms contact to coil-Contact Factory				
Insulation Resistance	1000 megohms min. at 20°C, 500VDC 50% RH				
Dropout	DC: > 10% of nominal coil voltage AC: > 30% of nominal coil voltage				
Ambient Temperature Operating Storage	-55°C (-67°F) to 100°C (212°F) Class B -55°C (-67°F) to 130°C (266°F) Class B -55°C (-67°F) to 125°C (257°F) Class F -55°C (-67°F) to 155°C (311°F) Class F				
Vibration	0.06" DA at 10-55 Hz				
Shock	20g				
Enclosure	P.B.T. polyester				
Terminals	Tinned copper alloy, P.C.				
Max. Solder Temp.	270°C (518°F)				
Max. Solder Time	5 seconds				
Weight	27 grams				

NOTES

- 1. All values at 20°C (68°F).
- 2. Relay may pull in with less than "Must Operate" value.
- 3. Other coil resistances and sensitivities available upon request. Please contact the factory.
- 4. Specifications subject to change without notice.

AMERICAN ZETTLER, INC.

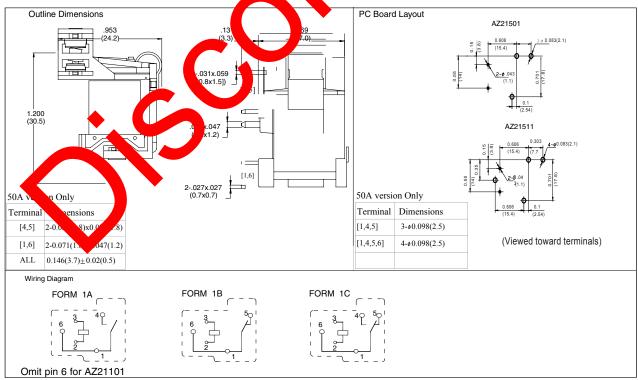
AZ21101

RELAY ORDERING DATA

	COIL SPECIFICATIONS – DC Coil							
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance ±10% (30/40A) (50A)		ORDER NUMBER*		
3	2.25	3.9	300	10	6	AZ21101-1A-3D		
5	3.75	6.5	179	28	16.7	AZ21101-1A-5D		
6	4.50	7.8	150	40	24	AZ21101-1A-6D		
9	6.75	11.7	100	90	- 4	AZ21101-1A-9D		
12	9.00	15.6	75	160	9.	AZ21101-1A-12D		
15	10.25	19.5	60	250	150	AZ21101-1A-15D		
18	13.5	23.4	50	360	216	721101–1A–18D		
24	18.0	31.2	38	640	24	Z21101–1A–24D		
48	36.0	62.4	19	2,7 J	1536	AZ21101-1A-48D		
110	82.50	143	8	13 45	67	AZ21101-1A-110D		
	COIL SPECIFICATIONS – AC Coil 50/60 Hz							
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Coil Power VA	Res. ce ±10% 30/40A only)		ORDER NUMBER*		
12	9	15.6	2.0	27		AZ21101-1A-12A		
24	18	31.2	2	120		AZ21101-1A-24A		
110	82.5	143	2.0	2,360		AZ21101-1A-110A		
120	90	156	2.0	3,040		AZ21101-1A-120A		
220	165	286		13,490		AZ21101-1A-220A		
240	180	312	2.0	15,740		AZ21101-1A-240A		
277	207.75	360.1	0	20,300		AZ21101-1A-277A		

^{*}Substitute "-1B" or "-1C" in place of "-1A" for 1 Form B or 1 Form Control of the ctively. See "tiver tin oxide contacts substitute "-1AE", or "-1BE" or "-1CE" in place of "-1A", or "-1B", or "-1C." For 30A version, add "H" after "-1AE", "-1AE" or "-1C,-1CE." , or for 50A version, add "T" after -1AE", "-1BE", or "-1CE." To indicate class F version, add suffix "F". Use AZ2111 or Pin 6 s,

MECHANICAL DATA



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

AMERICAN ZETTLER. INC.

11/28/16