

AZ762P

20 AMP LATCHING POWER RELAY

FEATURES

- Dielectric strength 4000 Vrms
- Low height: 16 mm
- 20 Amp switching
- UL, CUR file E44211



CONTACTS

Arrangement	SPDT (1 Form C) SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 5000 VA Max. switched current: 20 A Max. inrush current "1AT" version: 165 A, 20 ms 500 A, 2 ms 800 A, 200 μ s Max. switched voltage: 125VDC* or 350 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	1 Form A 20 A at 250 VAC, resistive, 20k cycles, 70°C [1] 16 A at 250 VAC, resistive, 100k cycles, 85°C [1] 6 A at 277 VAC, tungsten, 6k cycles, 40°C [1] 6 A at 277 VAC, standard ballast, 6k cycles, 40°C [1] 1.5 HP at 250 VAC, 40°C [1] 3300 W at 277 VAC, electronic ballast, 20k cycles, 40°C [2] 3000 W at 220 VAC, tungsten, 6k cycles, 40°C [2] 1500 W at 347 VAC, standard ballast, 20k cycles, 40°C [2] 1 Form C (normally open) 20 A at 250 VAC, resistive, 20k cycles, 70°C [1] 16 A at 250 VAC, resistive, 100k cycles, 85°C [1] 1 Form C (normally closed) 16 A at 250 VAC, resistive, 50k cycles, 85°C [1]
Material	Silver tin oxide [1], Silver tin oxide + tungsten [2]
Resistance	< 20 milliohms initially

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁶ 1 x 10 ⁵
Set Time (typical)	10 ms at nominal coil voltage
Reset Time (typical)	10 ms at nominal coil voltage
Min. Pulse Time	75 ms
Max. Pulse Time	1 min.
Dielectric Strength (at sea level for 1 min.)	4000 Vrms coil to contact 1000 Vrms between open contacts
Insulation Resistance	1000 megaohms min. at 20°C 500 VDC 50% RH
Insulation (according to DIN VDE 0110, IEC 60664-1)	C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 85°C (185°F)
Vibration	0.062" (1.5 mm) DA at 10-55 Hz
Shock	10 g
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	13 grams
Packing unit in pcs.	50 per tray / 500 per carton box

COIL

Power At Set/Reset Voltage (typical)	256 mW (single coil) 384 mW (dual coil) 416 mW (dual coil 24 V)
Temperature	Max. 155°C (311°F) Class F

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Set/Reset" value.
3. Specifications subject to change without notice.
4. Initial state of contacts may be changed during transportation or shock!

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This product specification to be used only together with the application notes
which can be downloaded from <http://www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf>

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RELAY ORDERING DATA

SINGLE COIL LATCHING					
COIL SPECIFICATION				ORDER NUMBER*	
Nominal Coil VDC	Set/Reset VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	1 Form A	1 Form C
3	2.4	3.9	22.5	AZ762P1-1AE-3D	AZ762P1-1CE-3D
5	4.0	6.5	62.5	AZ762P1-1AE-5D	AZ762P1-1CE-5D
6	4.8	7.8	90	AZ762P1-1AE-6D	AZ762P1-1CE-6D
9	7.2	11.7	202	AZ762P1-1AE-9D	AZ762P1-1CE-9D
12	9.6	15.6	360	AZ762P1-1AE-12D	AZ762P1-1CE-12D
24	19.2	31.2	1,440	AZ762P1-1AE-24D	AZ762P1-1CE-24D

DUAL COIL LATCHING					
COIL SPECIFICATION				ORDER NUMBER*	
Nominal Coil VDC	Set/Reset VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	1 Form A	1 Form C
3	2.4	3.9	15	AZ762P2-1AE-3D	AZ762P2-1CE-3D
5	4.0	6.5	42	AZ762P2-1AE-5D	AZ762P2-1CE-5D
6	4.8	7.8	60	AZ762P2-1AE-6D	AZ762P2-1CE-6D
9	7.2	11.7	135	AZ762P2-1AE-9D	AZ762P2-1CE-9D
12	9.6	15.6	240	AZ762P2-1AE-12D	AZ762P2-1CE-12D
24	19.2	31.2	886	AZ762P2-1AE-24D	AZ762P2-1CE-24D

* "1AE" or "1CE" denote silver tin oxide contacts.

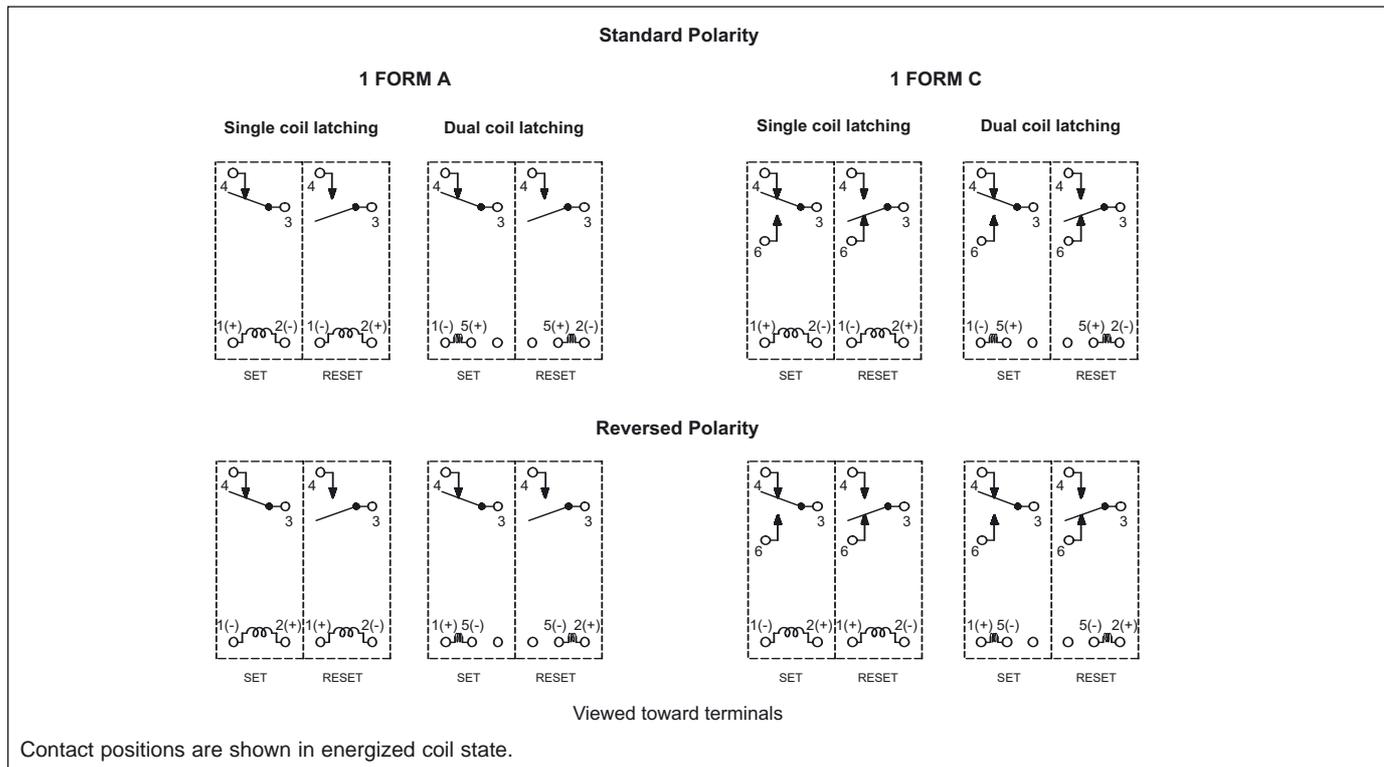
Substitute "1AT" in place of "1AE" for silver tin oxide contacts with tungsten premake contact.

Add suffix "E" at the end of the order number for sealed version.

Add suffix "K" at the end of the order number for 3.5 mm pin spacing version. (not available for "1AT" version)

Add suffix "R" at the end of the order number for reversed polarity coil.

WIRING DIAGRAM



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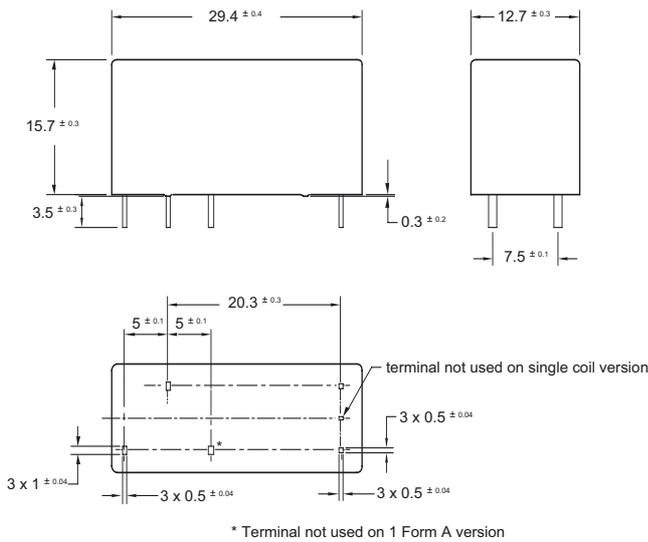
which can be downloaded from <http://www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf>

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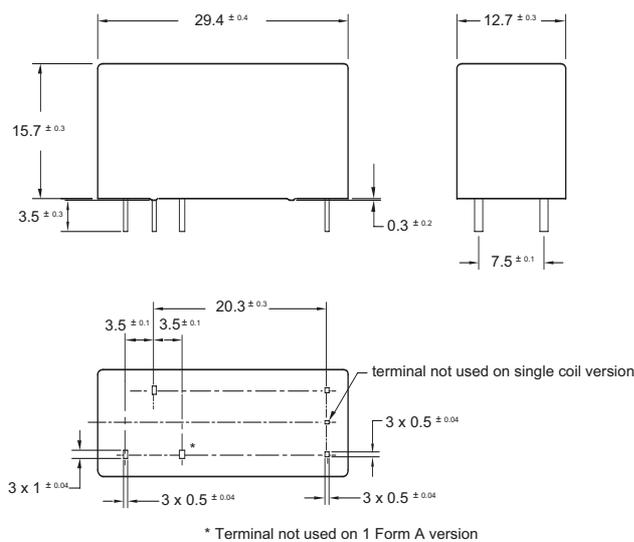
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MECHANICAL DATA

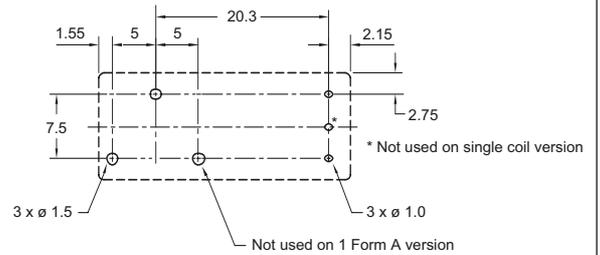
5.0 mm Spacing - Standard version



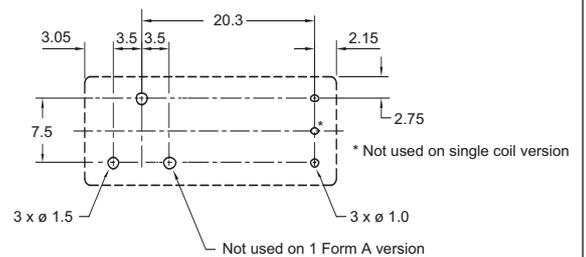
3.5 mm Spacing - "K" version



PC BOARD LAYOUT



Viewed toward terminals



Viewed toward terminals

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