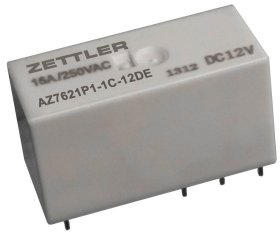
AZ7621P

16 A MINIATURE LATCHING POWER RELAY



FEATURES

- Dielectric strength 5000 Vrms
- PC board mounting
- Epoxy sealed versions available
- 16 Amp switching
- UL, CUR E43203

CONTACTS

Arrangement	SPST (1 Form A) on N.O. SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 4000 VA Max. switched current: 16A Max. switched voltage: 440 VAC
Rated Load **UL, CUR**	16 A at 250 VAC resistive 50,000 cycles @ 85°C
Material	Silver tin oxide. Gold plating available.
Resistance	< 50 milliohms initially (using 6 V 1 A method)

COIL

Power	
At Pickup Voltage (typical)	196 mW, (DC, standard) 1 coil 294 mW, (DC, standard) 2 coil 318mW with 24VDC coil
Max. Continuous Dissipation	1.7 W at 20°C (68°F) ambient
Temperature Rise	26°C (47°F) at nominal coil voltage
Max. Temperature	105°C (221°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 5×10^6 5×10^4 at 16A 250 VDC RES.
Operate Time (typical)	≤10 ms at nominal coil voltage
Release Time (typical)	≤10 ms at nominal coil voltage
Dielectric Strength **(at sea level for 1 min.)**	5000 Vrms coil to contact 1000 Vrms between open contacts
Insulation Resistance	1000 megohms min. at 20°C 500 VDC 50% RH
Ambient Temperature **Operating** **Storage**	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
Vibration	10Hz-55Hz double amplitude 1.55mm
Shock	$98 m/s^2$ 11ms
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

Caution: When latching relays are installed in equipment, the latch and reset coil should not be powered simultaneously. Coil should not be pulsed with less than the nominal coil voltage and pulse width should be a minimum of three times the specified operate time of the relay. If these conditions are not followed, it is possible for the relay to be in the magnetically neutral position.

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RELAY ORDERING DATA

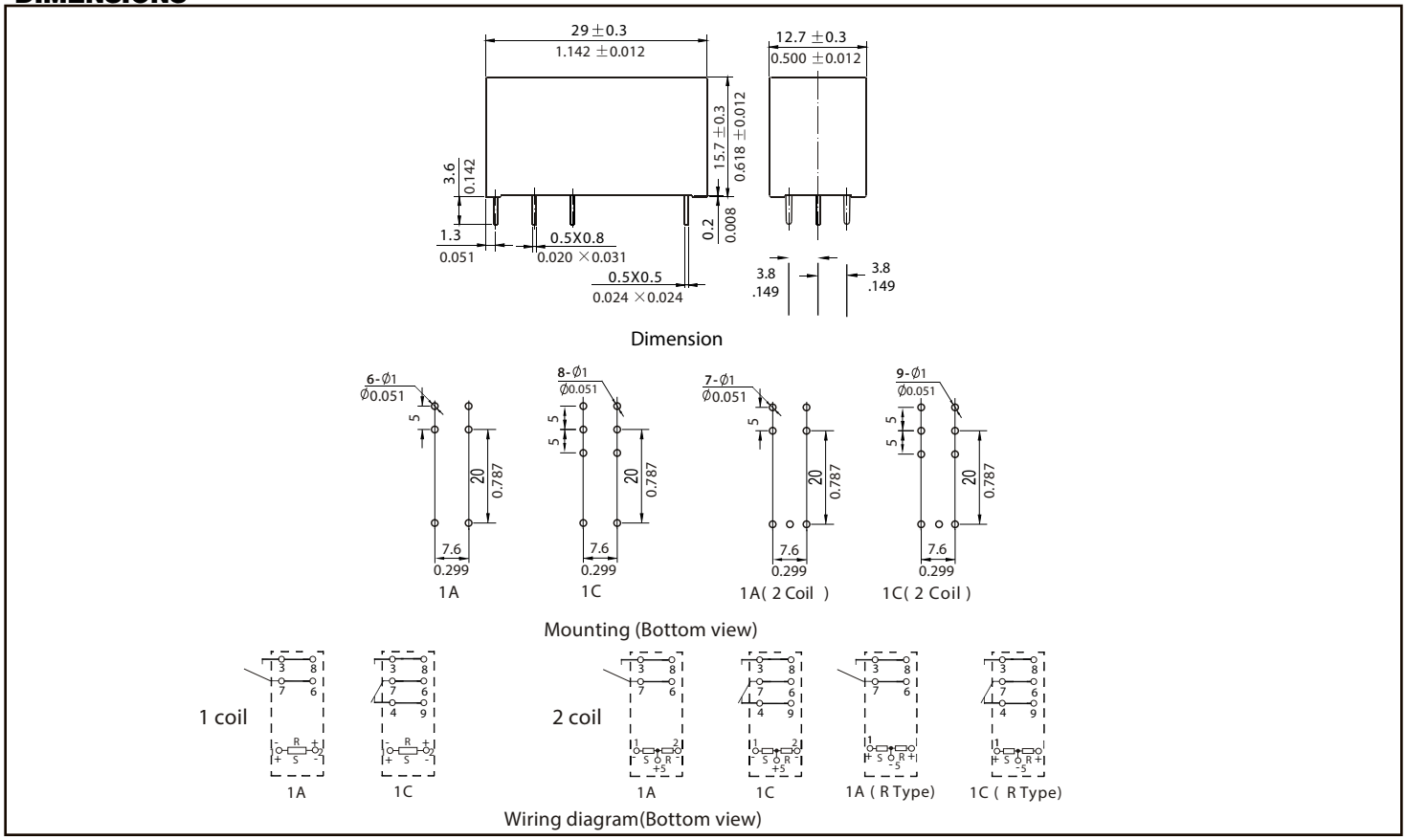
COIL SPECIFICATIONS – SINGLE COIL LATCHING			ORDER NUMBER*	
Nominal Coil VDC	Set / Reset Voltage VDC	Coil Resistance ± 10%	Unsealed	Sealed
5	3.5	35.7	AZ7621P1–1C-5D	AZ7621P1–1C-5DE
6	4.2	51.4	AZ7621P1–1C-6D	AZ7621P1–1C-6DE
9	6.3	116	AZ7621P1–1C-9D	AZ7621P1–1C-9DE
12	8.4	206	AZ7621P1–1C-12D	AZ7621P1–1C-12DE
24	16.8	820	AZ7621P1–1C-24D	AZ7621P1–1C-24DE

* Substitute “1A” in place of “1C” for Form A respectively. Add suffix “A” for gold plated contacts.

COIL SPECIFICATIONS – DUAL COIL LATCHING			ORDER NUMBER*	
Nominal Coil VDC	Set / Reset Voltage VDC	Coil Resistance ± 10%	Unsealed	Sealed
5	3.5	2 X 25	AZ7621P2–1C-5D	AZ7621P2–1C-5DE
6	4.2	2 X 36	AZ7621P2–1C-6D	AZ7621P2–1C-6DE
9	6.3	2 X 81	AZ7621P2–1C-9D	AZ7621P2–1C-9DE
12	8.4	2 X 144	AZ7621P2–1C-12D	AZ7621P2–1C-12DE
24	16.8	2 X 576	AZ7621P2–1C-24D	AZ7621P2–1C-24DE

* Substitute “1A” in place of “1C” for Form A respectively. Add suffix "R" for reverse polarity. Add suffix “A” for gold plated contacts.

DIMENSIONS



NOTES 1). Dimensions are in millimeters and inches. Tolerance: ± .010”
2). Inch equivalents are given for general information only.