AZ2500

60 AMP LATCHING POWER RELAY

FEATURES

- Low cost
- 60 Amp switching
- Heavy loads to 15,000VA
- 4kV dielectric
- Epoxy sealed construction available
- UL, CUR file E43203

CONTACTS

Arrangement	SPST (1 Form A), SPST (1 Form B)Not UL
Ratings	Resistive load: Max. switched power: 15,000VA Max. switched current: 60A Max. switched voltage: 250VAC
Rated Load **UL, CUR**	60A at 250VAC, 6k cycles, General Use 70°C 50A at 250VAC, 10k cycles, General Use 70°C 40A at 250VAC, 100k cycles, General Use 70°C
Material	Silver tin oxide
Resistance	< 50 milliohms initially (24V, 1A voltage drop method)

COIL

Power **At Pickup Voltage (typical)**	666mW single coil 1.3W dual coil
Temperature	Max. 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.
4. Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 1 x 10^6 1 x 10^5 at 40A 250VAC Res.
Set and Reset Pulse Duration	50ms minimum
Set Time (typical)	20ms at nominal coil voltage
Reset Time (typical)	20ms at nominal coil voltage
Dielectric Strength (at sea level for 1 min.)	4000Vrms coil to contact 1500Vrms between open contacts
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Creepage Distance	8mm
Ambient Temperature **Operating** **Storage**	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F)
Vibration	0.062" DA at 10–55 Hz
Shock **Operating** **Non-Operating**	 10g, 98m/s^2, 1/2 sine (no false operation) 100g, 980m/s^2, 1/2 sine (no damage)
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy P.C. (coil), heavy tabs (power)
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Weight (approx.)	33 grams

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RELAY ORDERING DATA

COIL SPECIFICATIONS -Standard Single Coil - Termination Style 1				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC [1]	Coil Resistance ± 10%	Unsealed	Sealed
5	4.0	6.5	24	AZ2500P1–1AE–5D	AZ2500P1–-1AE–5DE
6	4.8	7.8	35	AZ2500P1–1AE–6D	AZ2500P1–-1AE–6DE
9	7.2	11.7	80	AZ2500P1–1AE–9D	AZ2500P1–-1AE–9DE
12	9.6	15.6	145	AZ2500P1–1AE–12D	AZ2500P1–-1AE–12DE
24	19.2	31.2	575	AZ2500P1–1AE–24D	AZ2500P1–-1AE–24DE
48	38.4	62.4	2270	AZ2500P1–1AE–48D	AZ2500P1–-1AE–48DE

* Add suffix “K” for Coil Termination Style 2. Replace 1AE with 1BE for Form B(not UL). Add suffix R for negative polarity(not UL).

COIL SPECIFICATIONS -Standard Dual Coil				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC [1]	Coil Resistance ± 10%	Unsealed	Sealed
5	4.0	6.5	12	AZ2500P2–1AE–5D	AZ2500P2–-1AE–5DE
6	4.8	7.8	17.5	AZ2500P2–1AE–6D	AZ2500P2–-1AE–6DE
9	7.2	11.7	40	AZ2500P2–1AE–9D	AZ2500P2–-1AE–9DE
12	9.6	15.6	72	AZ2500P2–1AE–12D	AZ2500P2–-1AE–12DE
24	19.2	31.2	285	AZ2500P2–1AE–24D	AZ2500P2–-1AE–24DE
48	38.4	62.4	1135	AZ2500P2–1AE–48D	AZ2500P2–-1AE–48DE

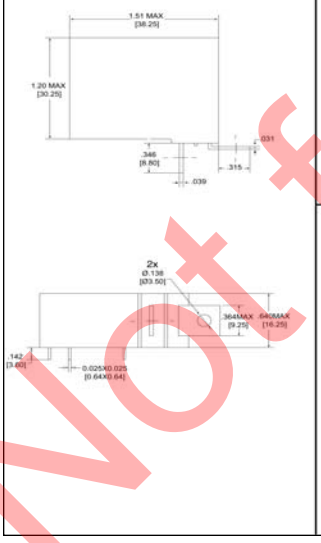
NOTE: Relays may be ordered with twisted copper wire terminations (Styles A-K) as shown below. Contact factory for ordering information.

[1] max. continuous voltage should not be applied for more than 30 seconds.

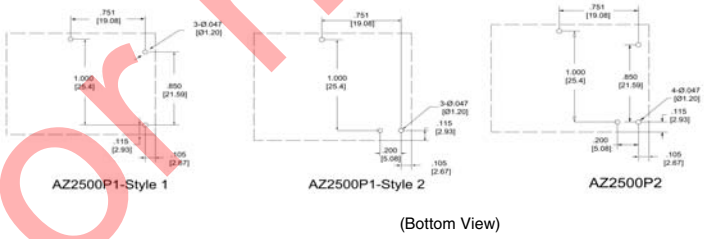
* Replace 1AE with 1BE for Form B(not UL). Add suffix R for negative polarity(not UL)

MECHANICAL DATA

Outline Dimensions

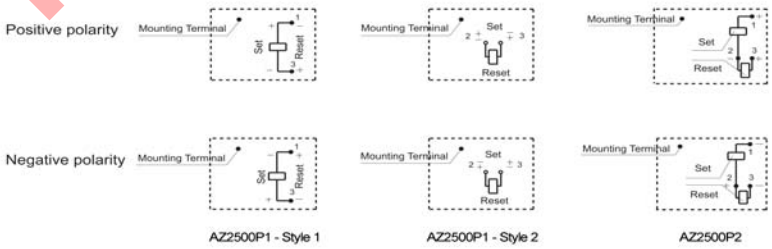


PC Board Layout



(Bottom View)

Wiring Diagram



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

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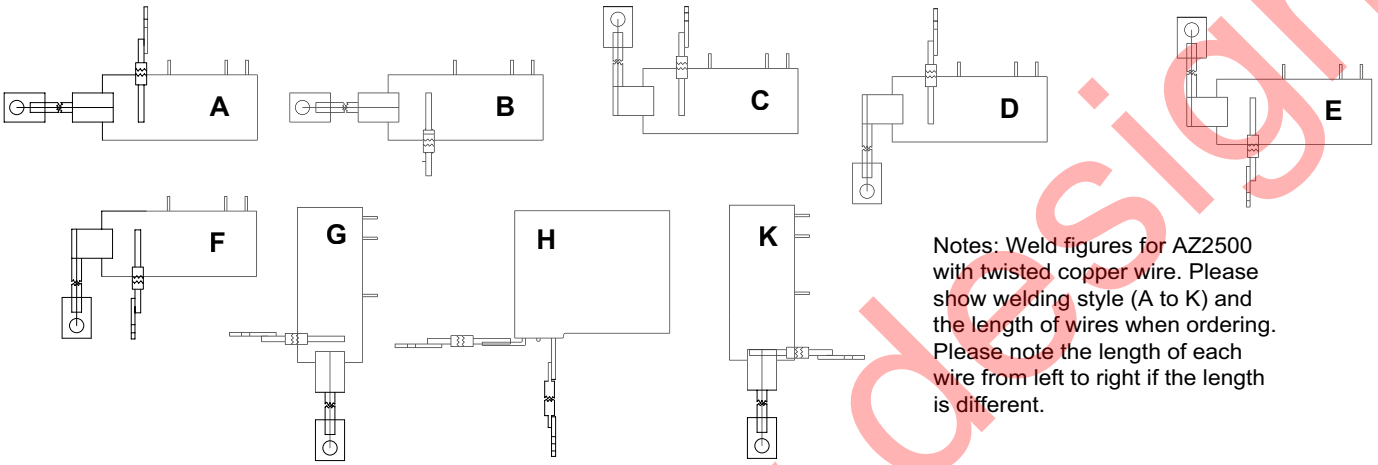
Weld style of twisted copper wire (A to K)



Notes: Weld figures for AZ2500 with twisted copper wire. Please show welding style (A to K) and the length of wires when ordering. Please note the length of each wire from left to right if the length is different.