

AZ888

8A SPST / 5A DPST POLARIZED SUBMINIATURE POWER RELAY SINGLE SIDE STABLE (NON-LATCHING) AND BISTABLE (LATCHING)

FEATURES

- Dielectric strength 3000Vrms
- Single and dual coil latching versions available
- Epoxy sealed version available
- 8 Amp switching
- UL ,CUR file E44211



CONTACTS

Arrangement	SPST (1 Form A), DPST (2 Form A) DPST (1 Form A and 1 Form B)
Ratings	Resistive load: Max. switched power: 500W or 2000VA (SPST) 150W or 1250VA (DPST) Max. switched current: 8A (SPST) 5A (DPST) Max. switched voltage: 240VDC or 380VAC* *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	PLEASE SEE CHART ON FOLLOWING PAGE
Material	Silver tin oxide, gold plating optional
Resistance No Gold plating Gold plated	< 100 milliohms (6V, 1A voltage drop method) < 100 milliohms (6V, 0.1A voltage drop method)

COIL

Power At Pickup Voltage (typical) Max. Continuous Dissipation	192mW (single side stable, 2 coil latching) 96mW (1 coil latching) 0.75W at 20°C (68°F) ambient
Temperature Rise	Monostable type: (typical) 45°C (113°F) Latching type: (typical) 35°C (95°F)
Max. Temperature	155°C (311°F), Class F

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 3 x 10 ⁴ at 8A, 250VAC resistive (SPST)
Operate Time (typical)	5ms at nominal coil voltage
Release Time (typical)	3ms at nominal coil voltage (with no coil suppression)
Set Time (typical)	5ms at nominal coil voltage
Reset Time (typical)	4ms at nominal coil voltage
Dielectric Strength (at sea level) 1 min.	3000Vrms contact to coil 1000Vrms between open contacts 2000Vrms between contact sets
Insulation Resistance	1000 megohms min. at 20°C 500Vdc 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 130°C (266°F)
Vibration	Functional 196m/s ² Destructive 980m/s ²
Shock	Functional 10Hz to 55Hz 2.0mm DA Destructive 10Hz to 55Hz 3.5mm DA
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	4.5 grams

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Relay has fixed coil polarity.
4. For complete isolation between the relay's magnetic fields, it is recommended that a .197" (5.0 mm) space be provided between adjacent relays.
5. Relay adjustment may be affected if undue pressure is exerted on relay case.
6. Specifications subject to change without notice.

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RATED LOAD UL, CUR

Electrical Ratings:

Coil Voltage (V dc)	Contact Arrangement	Contact Ratings		Electrical Operating Cycles	Load Type	Surrounding Air Temperature (SAT) (°C)
		Rated Voltage	Rated Current			
3, 5, 6, 9, 12, 18, 24	1 Form A	125/250 Vac	8 A	30,000	General Use	85
		125/250 Vac	8 A	50,000*	Resistive	85
		125/250 Vac	8 A	100,000	Resistive	70
		30 Vdc	5 A	30,000 50,000*	General Use	85
		30 Vdc	5A	100,000	Resistive	70
		125/250 Vac	1/6 HP	6,000	Motor	85
		B300		30,000	Pilot Duty	85
		R150		30,000	Pilot Duty	85
		B300		50,000	Pilot Duty	70
		R300		50,000	Pilot Duty	70
		600W 220Vac		6,000	Tungsten	70
	2 Form A (NO)	125/250 Vac	5 A	50,000	General Use	40
		125/250 Vac	5 A	100,000	Resistive	70
		30 Vdc	5 A	50,000	Resistive	40
		30 Vdc	5 A	100,000	Resistive	70
		125/250 Vac	5 A	30,000	General Use	85
		30 Vdc	5 A	30,000	Resistive	85
		125/250 Vac	1/10 HP	6,000	Motor	40
		125/250 Vac	1/10 HP	1,000+ 5,000 (mechanical)	Motor	70
		B300		50,000	Pilot Duty	40
		R150		50,000	Pilot Duty	40
	1 Form A + 1 Form B (NO&NC)	125/250 Vac	5 A	50,000	General Use	40
		125/250 Vac	5 A	100,000	Resistive	70
		30 Vdc	5 A	50,000	Resistive	40
		30 Vdc	5 A	100,000	Resistive	70
		125/250 Vac	5 A	30,000	General Use	85
		30 Vdc	5 A	30,000	Resistive	85
		125/250 Vac	1/6 HP	6,000	Motor	40
		125/250 Vac	1/6 HP	1,000+ 5,000 (mechanical)	Motor	70
		B300		50,000	Pilot Duty	70
		R150		50,000	Pilot Duty	70

Where Form A - Normally Open

Form B - Normally Close

*Note: For P2, Latching 2 coil only.

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RELAY ORDERING DATA

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COIL SPECIFICATIONS - SINGLE SIDE STABLE				ORDER NUMBER*		
Nominal Coil VDC	Must. Operate VDC	Max. Continuous VDC	Coil Resistance Ohms $\pm 10\%$	1 Form A	2 Form A	1 Form A 1 Form B
3	2.4	3.9	30	AZ888-1A-3D	AZ888-2A-3D	AZ888-1AB-3D
5	4.0	6.5	83	AZ888-1A-5D	AZ888-2A-5D	AZ888-1AB-5D
6	4.8	7.8	120	AZ888-1A-6D	AZ888-2A-6D	AZ888-1AB-6D
9	7.2	11.7	270	AZ888-1A-9D	AZ888-2A-9D	AZ888-1AB-9D
12	9.6	15.6	480	AZ888-1A-12D	AZ888-2A-12D	AZ888-1AB-12D
18	14.4	23.4	1080	AZ888-1A-18D	AZ888-2A-18D	AZ888-1AB-18D
24	19.2	31.2	1920	AZ888-1A-24D	AZ888-2A-24D	AZ888-1AB-24D

*Add suffix "E" for epoxy sealed version. Add suffix "A" for gold plated contacts. Add suffix "R" for reversed polarity coil.

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COIL SPECIFICATIONS - SINGLE COIL LATCHING				ORDER NUMBER*		
Nominal Coil VDC	Must. Operate VDC	Max. Continuous VDC	Coil Resistance Ohms $\pm 10\%$	1 Form A	2 Form A	1 Form A 1 Form B
3	2.4	3.9	60	AZ888P1-1A-3D	AZ888P1-2A-3D	AZ888P1-1AB-3D
5	4.0	6.5	167	AZ888P1-1A-5D	AZ888P1-2A-5D	AZ888P1-1AB-5D
6	4.8	7.8	240	AZ888P1-1A-6D	AZ888P1-2A-6D	AZ888P1-1AB-6D
9	7.2	11.7	540	AZ888P1-1A-9D	AZ888P1-2A-9D	AZ888P1-1AB-9D
12	9.6	15.6	960	AZ888P1-1A-12D	AZ888P1-2A-12D	AZ888P1-1AB-12D
18	14.4	23.4	2160	AZ888P1-1A-18D	AZ888P1-2A-18D	AZ888P1-1AB-18D
24	19.2	31.2	3840	AZ888P1-1A-24D	AZ888P1-2A-24D	AZ888P1-1AB-24D

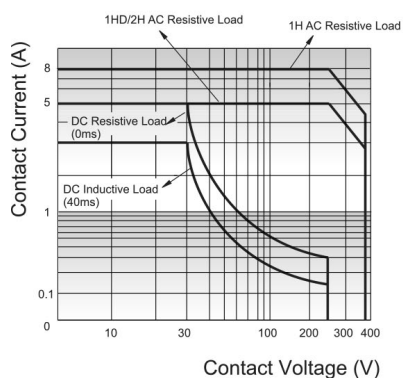
*Add suffix "E" for epoxy sealed version. Add suffix "A" for gold plated contacts. Add suffix "R" for reversed polarity coil.

AZ888P2

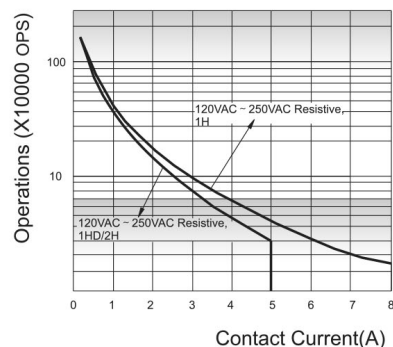
COIL SPECIFICATIONS - DUAL COIL LATCHING				ORDER NUMBER*		
Nominal Coil VDC	Must. Operate VDC	Max. Continuous VDC	Coil Resistance Ohms $\pm 10\%$	1 Form A	2 Form A	1 Form A 1 Form B
3	2.4	3.9	30	AZ888P2-1A-3D	AZ888P2-2A-3D	AZ888P2-1AB-3D
5	4.0	6.5	83	AZ888P2-1A-5D	AZ888P2-2A-5D	AZ888P2-1AB-5D
6	4.8	7.8	120	AZ888P2-1A-6D	AZ888P2-2A-6D	AZ888P2-1AB-6D
9	7.2	11.7	270	AZ888P2-1A-9D	AZ888P2-2A-9D	AZ888P2-1AB-9D
12	9.6	15.6	480	AZ888P2-1A-12D	AZ888P2-2A-12D	AZ888P2-1AB-12D
18	14.4	23.4	1080	AZ888P2-1A-18D	AZ888P2-2A-18D	AZ888P2-1AB-18D
24	19.2	31.2	1920	AZ888P2-1A-24D	AZ888P2-2A-24D	AZ888P2-1AB-24D

*Add suffix "E" for epoxy sealed version. Add suffix "A" for gold plated contacts. Add suffix "R" for reversed polarity coil.

MAXIMUM SWITCHING POWER



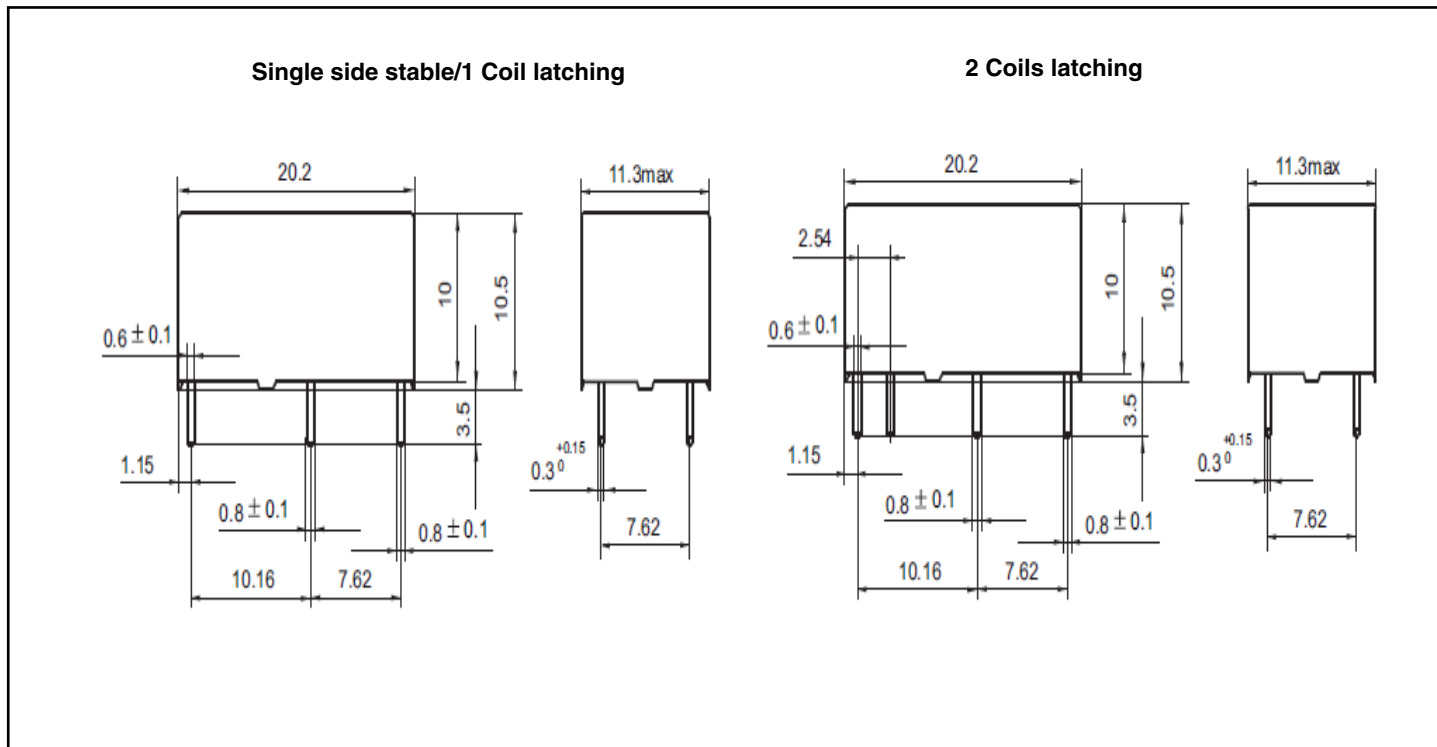
ENDURANCE CURVE



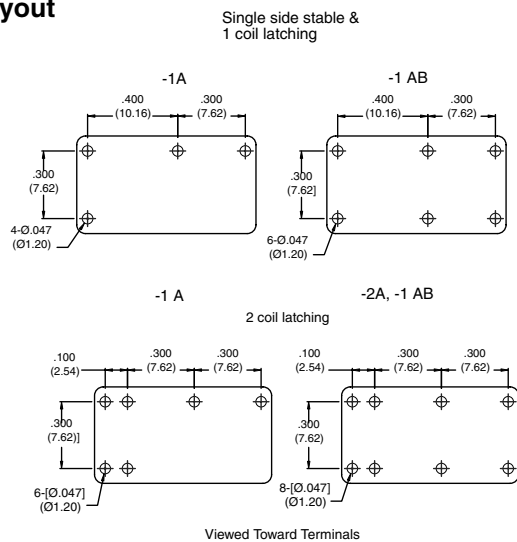
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MECHANICAL DATA

Outline Dimensions

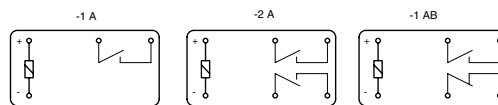


PC Board Layout

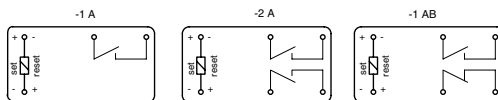


Wiring Diagram

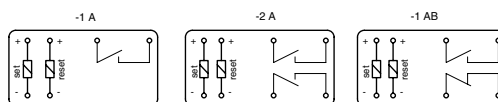
Single side stable (Deenergized condition)



1 coil latching(Reset condition)



2 coil latching(Reset condition)



Viewed Toward Terminals

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