

AZ888

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



FEATURES

- Dielectric strength 3000 Vrms
- 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: 500 W or 2000 VA (SPST) 150 W or 1250 VA (DPST) Max. switched current: 8 A (SPST) 5 A (DPST) Max. switched voltage: 240 VDC or 380 VAC* *Note: If switching voltage is greater than 30 VDC, 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 < 100 milliohms (6V 1A voltage drop method) Gold plated < 100 milliohms (6V 0.1A voltage drop method)

COIL

Power At Pickup Voltage (typical)	192 mW (single side stable, 2 coil latching) 96mW (1 coil latching)
Max. Continuous Dissipation	0.75 W 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	Minimum operations
Mechanical	1 x 10 ⁷
Electrical	3 x 10 ⁴ at 8 A 250 VAC resistive (SPST)
Operate Time (typical)	5 ms at nominal coil voltage
Release Time (typical)	3 ms at nominal coil voltage (with no coil suppression)
Set Time (typical)	5 ms at nominal coil voltage
Reset Time (typical)	4 ms at nominal coil voltage
Dielectric Strength (at sea level) 1 min.	3000 Vrms contact to coil 1000 Vrms between open contacts 2000 Vrms between contact sets
Insulation Resistance	1000 megohms min. at 20°C 500 Vdc 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:

Cat. No.	Coil Voltage (V dc)	Contact Arrangement	Contact Ratings		Electrical Operating Cycles	Load Type	Surrounding Air Temperature (SAT) (°C)
			Rated Voltage	Rated Current			
HFE60P , HFE60	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	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 L2, Latching 2 coil only.

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RELAY ORDERING DATA

AZ888

COIL SPECIFICATIONS - SINGLE SIDE STABLE				ORDER NUMBER*		
Nominal Coil VDC	Must. Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	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 $\pm 10\%$	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

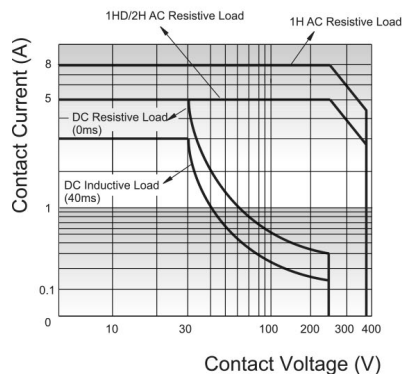
*Add suffix "E" for epoxy sealed version. Add suffix "A" for gold plated contacts. Add suffix "R" for reversed polarity coil.

AZ888P2

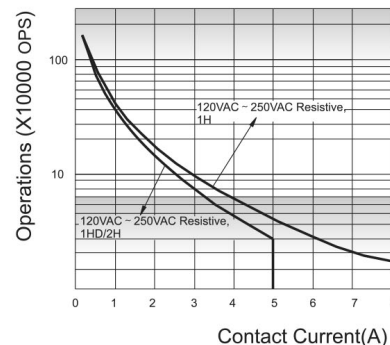
COIL SPECIFICATIONS - DUAL COIL LATCHING				ORDER NUMBER*		
Nominal Coil VDC	Must. Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	1 Form A	2 Form A	1 Form A 1 Form B
3	2.4	3.9	30	AZ888P2-1A-3D	AZ888P2-2A-3D	AZ888P2-1AB-3D
5	4.0	6.5	83	AZ888P2-1A-5D	AZ888P2-2A-5D	AZ888P2-1AB-5D
6	4.8	7.8	120	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



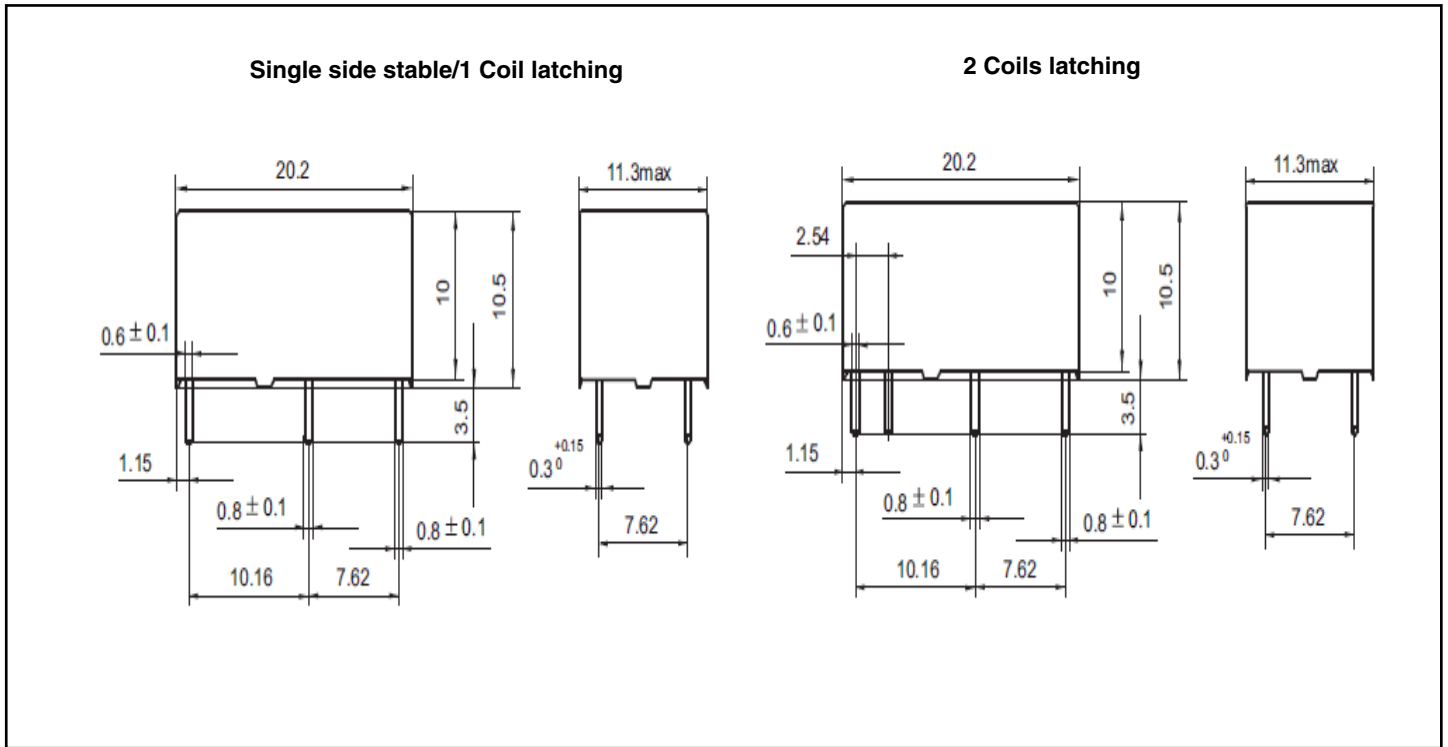
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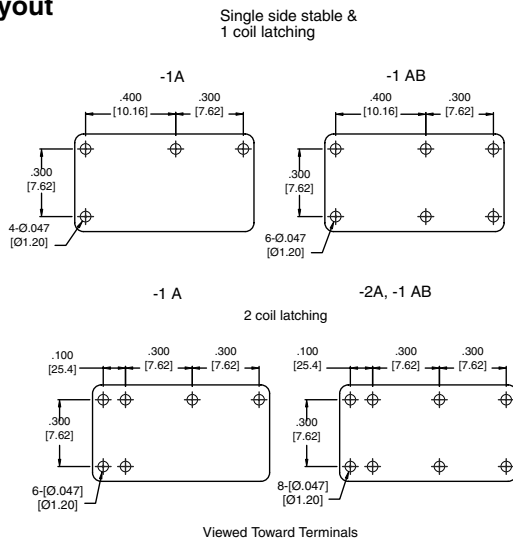
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MECHANICAL DATA

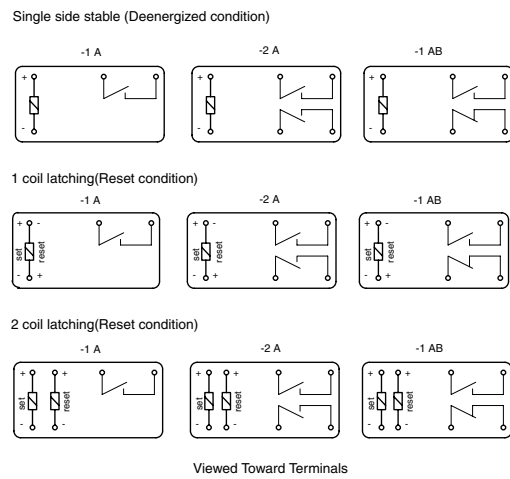
Outline Dimensions



PC Board Layout



Wiring Diagram



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