AZ169

MINIATURE POWER RELAY

FEATURES

- 10 A switching
- DPDT or 3PDT arrangement
- High switching capacity
- AC and DC coils
- Push To Test lever
- UL, CUR file E44211

c UL us

CONTACTS

Arrangement	DPDT (2 Form C) 3PDT (3 Form C)
Ratings	Resistive load: Max. switched power: 300 W or 2500 VA Max. switched current: 10 A Max. switched voltage: 30 VDC* or 250 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
UL, CUR	10A at 250 VAC 30VDC 1/3 HP at 240 VAC 1/3 HP at 120 VAC 1/2 HP at 277 VAC
Material	Silver tin oxide or silver cadmium oxide, gold plated versions are available
Resistance	< 100 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	DC: 1.0 W AC: 2.0 VA
Max. Continuous Dissipation	DC: 2.2 W at 20°C (68°F) AC: 3.5 VA at 20°C (68°F)
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 1 x 10^7 operations 1 x 10^5 operations
Operate Time	25 ms max. at nominal coil voltage
Release Time	25 ms max. at nominal coil voltage (without suppression)
Dielectric Strength (at sea level for 1 min.)	2500 Vrms coil to contact 2000 Vrms between contact sets
Insulation Resistance	500 megohms min. at 500 VDC, 20°C, 50% RH
Insulation (according to DIN VDE 0110, IEC 60664-1)	C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC
Dropout DC coils **AC coils**	Greater than 10% of nominal coil voltage Greater than 30% of nominal coil voltage
Ambient Temperature **Operating** **Storage**	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) - DC coils -40°C (-40°F) to 55°C (131°F) - AC coils -40°C (-40°F) to 105°C (221°F)
Vibration	0.062" (1.5 mm) DA at 10–55 Hz
Shock	10 g
Enclosure	Polycarbonate
Terminals	Octal or Undecal Type Plug
Weight	85 grams
Packing unit in pcs	10 per small carton / 100 per carton box

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RELAY ORDERING DATA

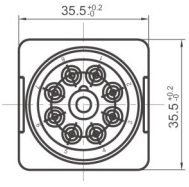
COIL SPECIFICATIONS: DC Coil					ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance Ohm ± 10%	
6	4.8	7.2	255.3	23.5	AZ169–2C–6D
12	9.6	14.4	126.3	95	AZ169–2C–12D
24	19.2	28.8	55.8	430	AZ169–2C–24D
48	38.4	57.6	36.9	1,630	AZ169–2C–48D
60	48.0	72.0	31.3	1,920	AZ169–2C–60D
100	80.0	120.0	14.7	6,800	AZ169–2C–100D
110	88.0	132.0	15.1	7,300	AZ169–2C–110D

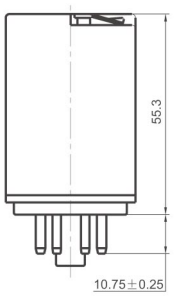
COIL SPECIFICATIONS AC Coil (50/60 Hz)					ORDER NUMBER*
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Current mA ± 10%	Coil Resistance Ohm ± 10%	
6	4.8	7.2	450.0	3.9	AZ169–2C–6A
12	9.6	14.4	225.0	16.3	AZ169–2C–12A
24	19.2	28.8	112.5	70	AZ169–2C–24A
48	38.4	57.6	56.3	315	AZ169–2C–48A
120	88.0	132.0	22.5	1,600	AZ169–2C–120A
230	176.0	264.0	11.7	6,800	AZ169–2C–230A

* For 3PDT substitute “-3C” for “-2C”. Add suffix “E” to “-2C” or “-3C” to indicate silver tin oxide contacts.
Add suffix “1” for LED at the end of part number.
Add suffix “P” for “Push to Test” lever at the end of part number.
Add sufffix “A” for gold plated contacts at the end of part number.

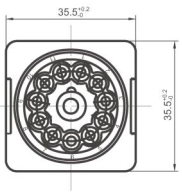
MECHANICAL DATA

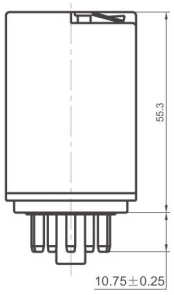
2 Form C





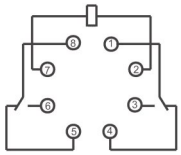
3 Form C



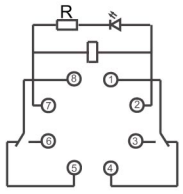


WIRING DIAGRAMS

2 Form C



2 Form C (with LED)



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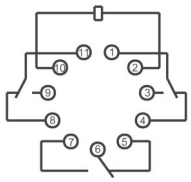
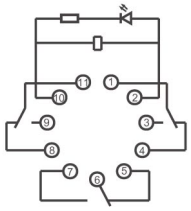


3 Form C (with LED)



Dimensions in mm.

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