

AZ757

20 AMP MINIATURE POWER RELAY

FEATURES

- Low cost
- 20 Amp switching
- Quick connect terminals
- 10kV Surge
- UL, CUR file E44211



CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 480W or 5000VA Max. switched current: 20A Max. switched voltage: 150VDC* or 250VAC <small>*Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.</small>
Rated Load UL, CUR	20A at 250VAC, general use, 100k cycles 16A at 30VDC resistive 1.5HP at 250VAC, 100k cycles
Material	Silver tin oxide
Resistance	< 100 milliohms initially (6V, 1A voltage drop method)

COIL

Power At Pickup Voltage (typical)	245mW
Max. Continuous Dissipation	1.3W at 20°C (68°F) ambient
Temperature Rise	29°C (52°F) at nominal coil voltage
Temperature	Max. 130°C (266°F) Class B

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 2 x 10 ⁶ 1 x 10 ⁵ at 20A 250VAC Res.
Operate Time (typical)	8ms at nominal coil voltage
Release Time (typical)	4ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000Vrms coil to contact 1000Vrms between open contacts
Surge	10000V contact to coil (1.2 x 50µ s)
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 5% 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	0.062" DA at 10–55 Hz
Shock Operating Non-Operating	10 g, 11ms, 1/2 sine (no false operation) 100 g, 11ms, 1/2 sine (no damage)
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy P.C. & quick connect Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
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	Approx. 16.5 grams

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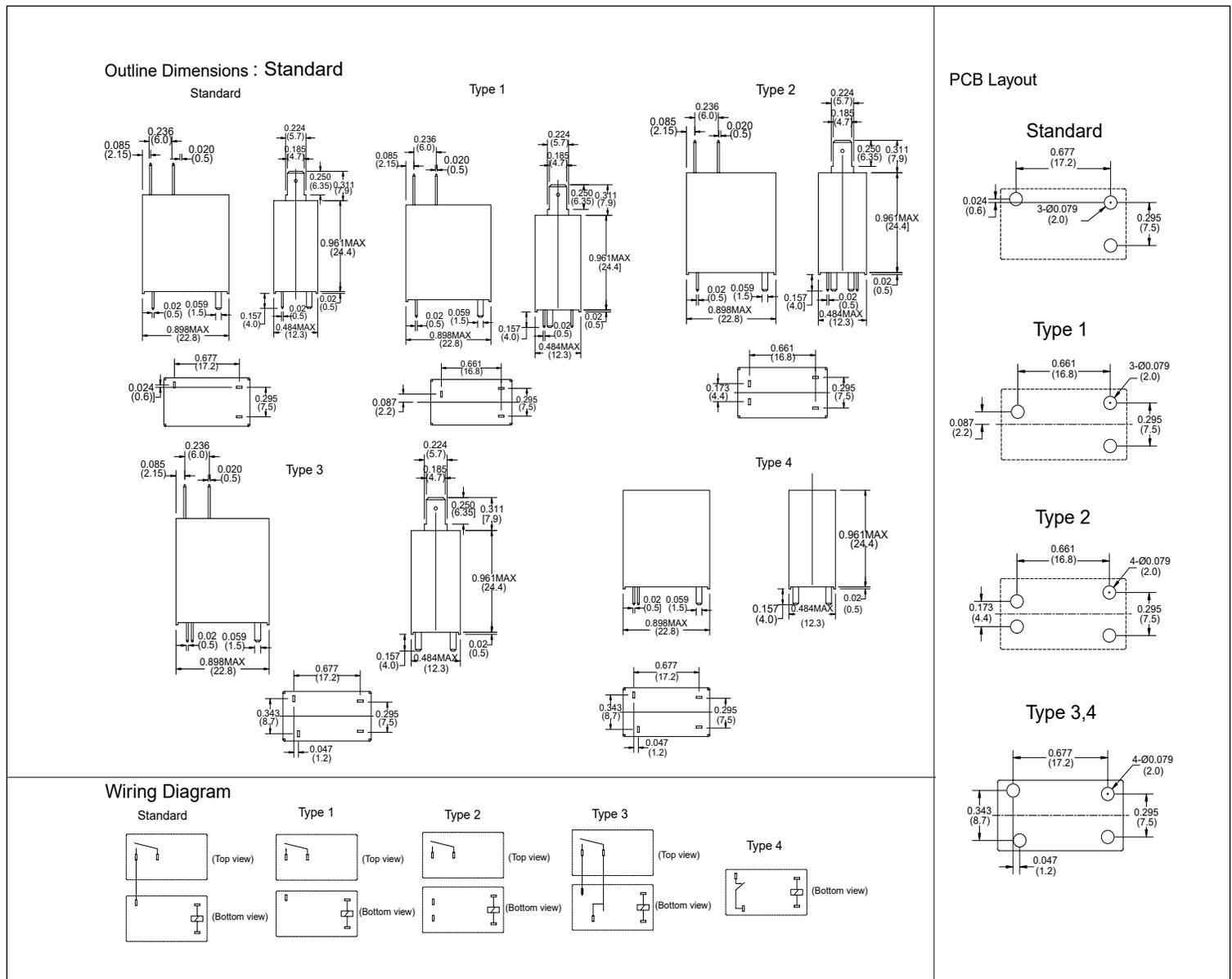
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RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Form A Unsealed
5	3.5	8.0	50	AZ757-1A-5D
6	4.2	9.7	72	AZ757-1A-6D
9	6.3	14.5	162	AZ757-1A-9D
12	8.4	19.3	288	AZ757-1A-12D
18	12.6	29.0	648	AZ757-1A-18D
24	16.8	38.7	1152	AZ757-1A-24D

* For Type 1 layout add suffix "1". For Type 2 layout add suffix "2". For Type 3 layout add suffix "3". For Type 4 layout add suffix "4". When suffix "E" is specified for Epoxy Seal, refer to AZ "Relay Technical Notes" on AZ website - Product Resources. Consult factory for other PCB process conditions that may apply.

MECHANICAL DATA



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

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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.