AZ757

20 AMP MINIATURE POWER RELAY

FEATURES

- Low cost
- 20 Amp switching
- Class F (155°C) system standard
- Quick connect terminals
- Epoxy sealed version available
- 10 kV Surge
- UL, CUR file E43203

CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 480 W or 5000 VA Max. switched current: 20 A Max. switched voltage: 150* VDC or 400 VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	20 A at 250 VAC, general use, 100k cycles 16 A at 30 VDC resistive 1.5 HP at 250 VAC, 100k cycles
Material	Silver tin oxide
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	245 mW
Max. Continuous Dissipation	0.85 W at 20°C (68°F) ambient
Temperature Rise	55°C (99°F) at nominal coil voltage
Temperature	Max. 155°C (311°F) Class 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 1 x 10^5 at 20 A 250 VAC Res.
Operate Time (typical)	8 ms at nominal coil voltage
Release Time (typical)	4 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000 Vrms coil to contact 1000 Vrms between open contacts
Surge	10000 V contact to coil (1.2 x 50 μ 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, 11 ms, 1/2 sine (no false operation) 100 g, 11 ms, 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	4.6 grams

AMERICAN ZETTLER, INC. *www.azettler.com*

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3/3/04W

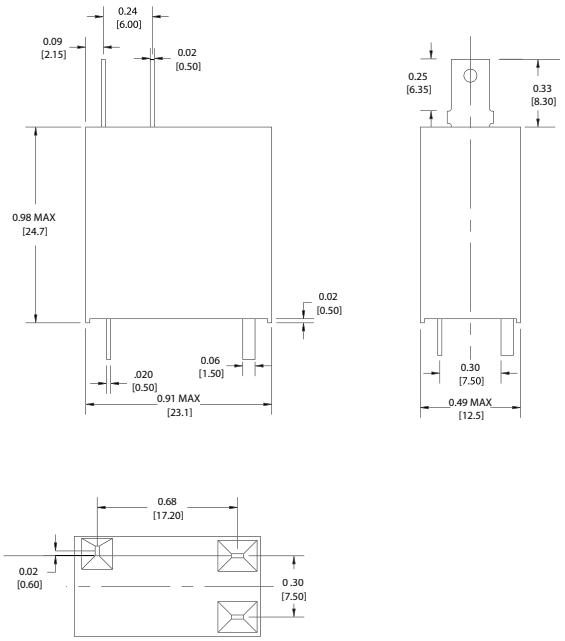
AZ757

RELAY ORDERING DATA

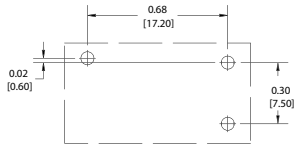
COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	Form A Unsealed	Form A Sealed
5	3.5	6.5	50	AZ757–1A–5DF	AZ757–1A–5DEF
6	4.2	7.8	72	AZ757–1A–6DF	AZ757–1A–6DEF
9	6.3	11.7	162	AZ757–1A–9DF	AZ757–1A–9DEF
12	8.4	15.6	288	AZ757–1A–12DF	AZ757–1A–12DEF
18	12.6	23.4	648	AZ757–1A–18DF	AZ757–1A–18DEF
24	16.8	31.2	1152	AZ757–1A–24DF	AZ757–1A–24DEF

MECHANICAL DATA

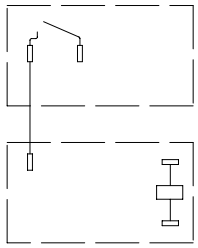
Outline Dimensions



PC BOARD LAYOUT



WIRING DIAGRAM



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

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