

20 AMP MINIATURE POWER RELAY

FEATURES

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



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 30VDC, 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	1.3 W 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 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



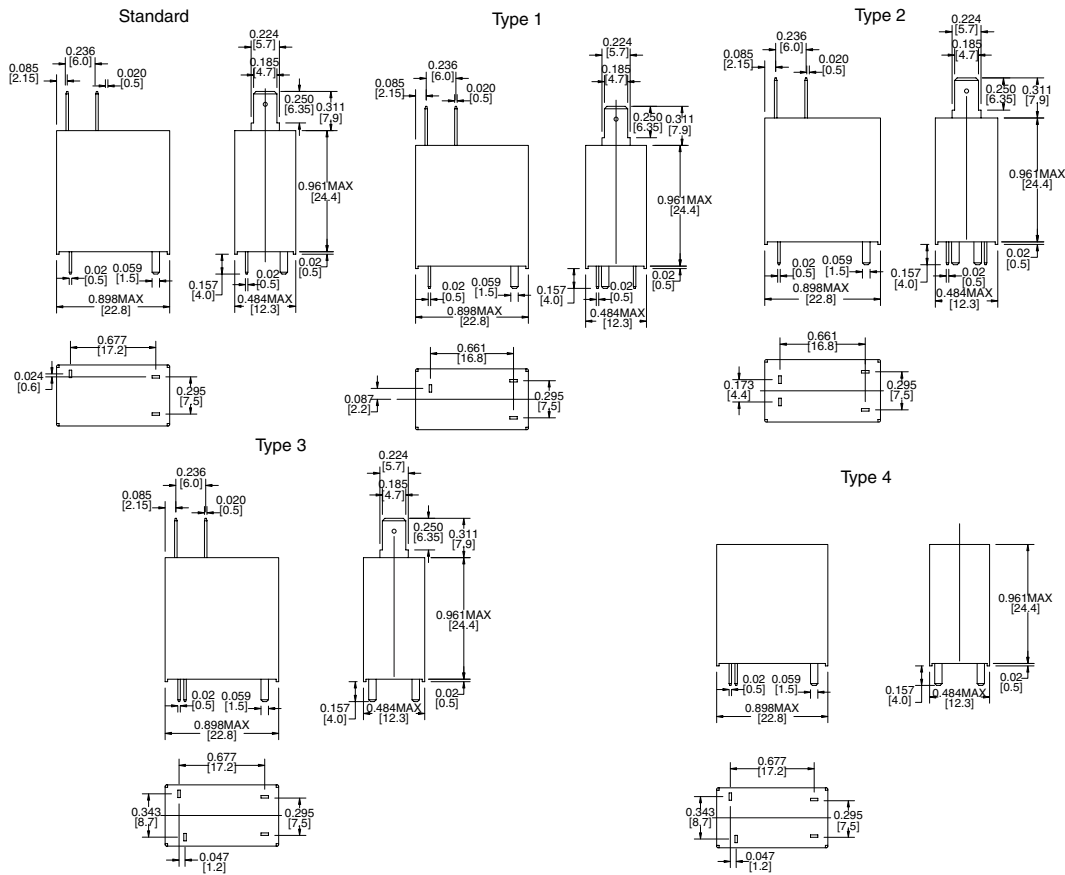
RELAY ORDERING DATA

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

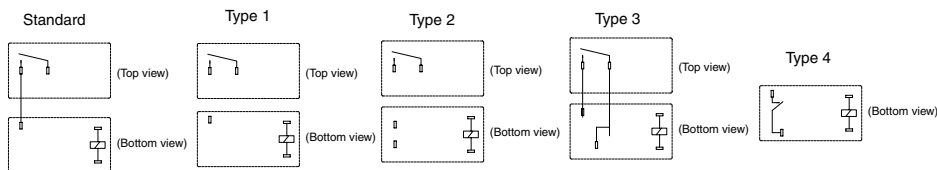
* For Type 1 layout add suffix "1". For Type 2 layout add suffix "2". For Type 3 layout add suffix "3". For Type 4 layout add suffix "4".

MECHANICAL DATA

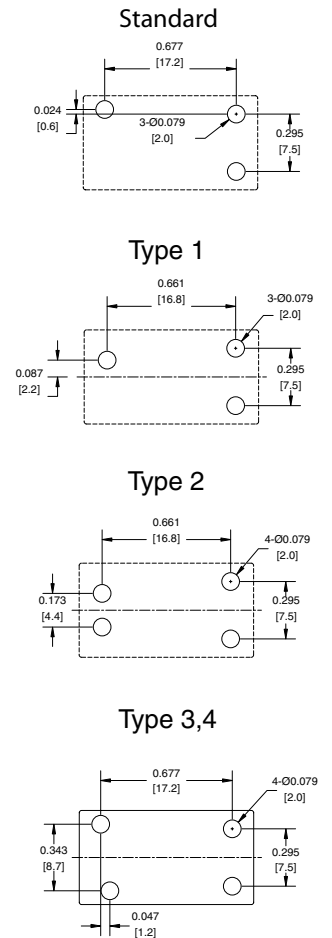
Outline Dimensions : Standard



Wiring Diagram



PCB Layout



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



AMERICAN ZETTLER, INC.

www.azettler.com

www.DataSheet4U.com

75 COLUMBIA • ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 • FAX: (949) 831-8642 • E-MAIL: SALES@AZETTLER.COM

6/21/06W