

## 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

<b>Arrangement</b>	SPST (1 Form A)
<b>Ratings</b>	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.
<b>Rated Load UL, CUR</b>	20 A at 250 VAC, general use, 100k cycles 16 A at 30 VDC resistive 1.5 HP at 250 VAC, 100k cycles
<b>Material</b>	Silver tin oxide
<b>Resistance</b>	< 50 milliohms initially (24 V, 1 A voltage drop method)

### COIL

<b>Power At Pickup Voltage (typical)</b>	245 mW
<b>Max. Continuous Dissipation</b>	1.3 W at 20°C (68°F) ambient
<b>Temperature Rise</b>	29°C (52°F) at nominal coil voltage
<b>Temperature</b>	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

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 20 A 250 VAC Res.
<b>Operate Time (typical)</b>	8 ms at nominal coil voltage
<b>Release Time (typical)</b>	4 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	5000 Vrms coil to contact 1000 Vrms between open contacts
<b>Surge</b>	10000 V contact to coil (1.2 x 50 μs)
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500 VDC, 50% RH
<b>Dropout</b>	Greater than 5% of nominal coil voltage
<b>Ambient Temperature Operating Storage</b>	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 130°C (266°F)
<b>Vibration</b>	0.062" DA at 10–55 Hz
<b>Shock Operating Non-Operating</b>	10 g, 11 ms, 1/2 sine (no false operation) 100 g, 11 ms, 1/2 sine (no damage)
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy P.C. & quick connect Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	4.6 grams

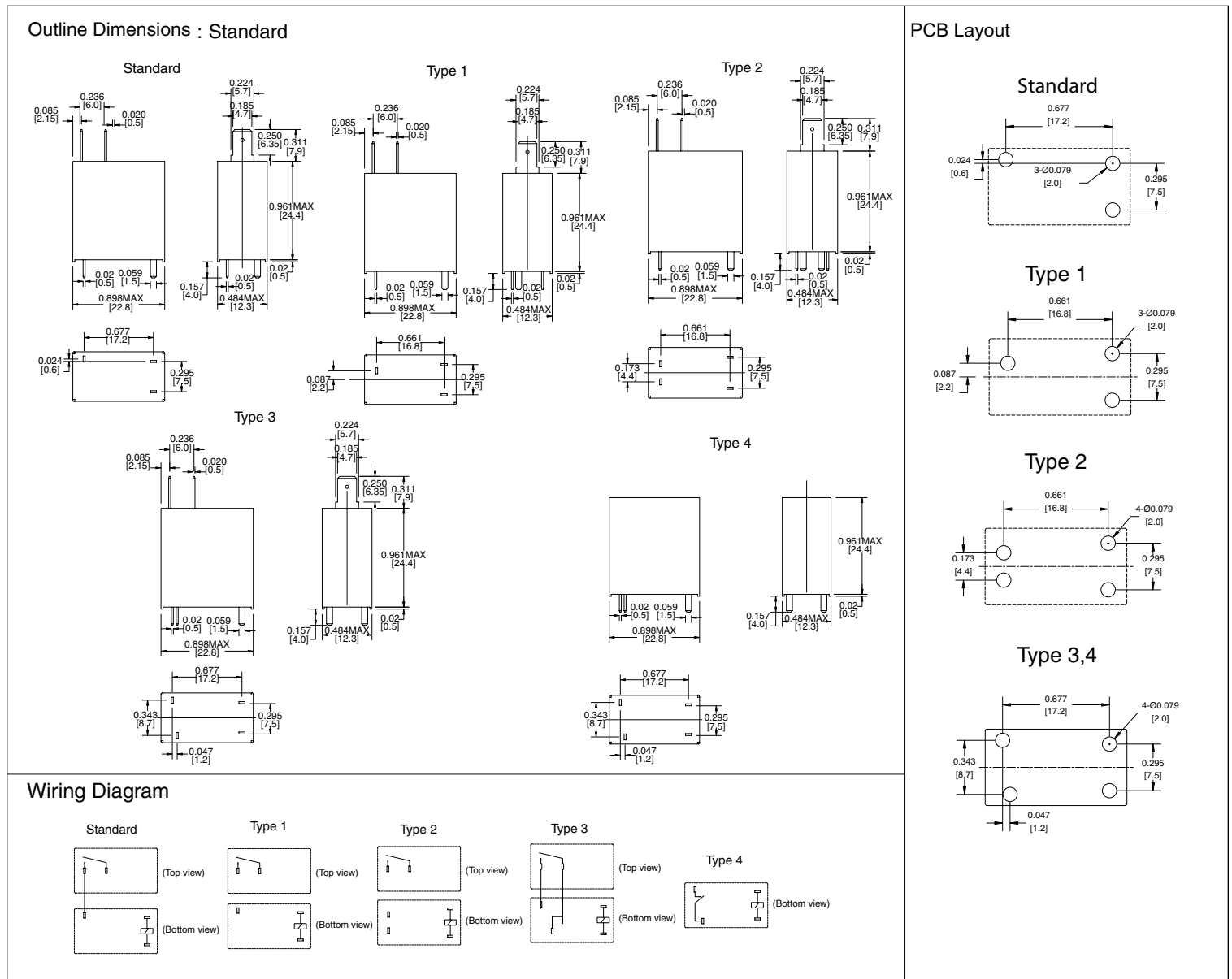


## RELAY ORDERING DATA

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



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

