# AZ757 \_\_\_\_

## 20 AMP MINIATURE POWER RELAY

SPST (1 Form A)

Max. switched power: 480W or 5000VA

Max. switched voltage: 150VDC\* or 250VAC \*Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.

20A at 250VAC, general use, 100k cycles

1.3W at 20°C (68°F) ambient

Max. 130°C (266°F) Class B

29°C (52°F) at nominal coil voltage

Max. switched current: 20A

16A at 30VDC resistive 1.5HP at 250VAC, 100k cycles

< 100 milliohms initially (6V, 1A voltage drop method)

245mW

Relay may pull in with less than "Must Operate" value.
Specifications subject to change without notice.

Silver tin oxide

Resistive load:

#### FEATURES

- Low cost
- 20 Amp switching
- Quick connect terminals
- 10kV Surge

CONTACTS

Arrangement

Rated Load

UL, CUR

Material

COIL Power

Resistance

(typical)

Temperature

NOTES

At Pickup Voltage

Max. Continuous Dissipation

**Temperature Rise** 

1. All values at 20°C (68°F).

Ratings

• UL, CUR file E44211



## **GENERAL DATA**

Life Expectancy Mechanical Electrical	Minimum operations 2 x 10 <sup>6</sup> 1 x 10 <sup>5</sup> 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		

# AMERICAN ZETTLER, INC.

www.azettler.com

# AZ757 \_

## **RELAY ORDERING DATA**

COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 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: ± .010"

## AMERICAN ZETTLER, INC.

#### PHONE: (949) 831-5000

#### www.azettler.com

#### E-MAIL: SALES@AZETTLER.COM

2/01/16

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.