

AZ765

SPST SUBMINIATURE POWER RELAY

FEATURES

- Small footprint
- Low cost
- Epoxy sealed version available
- 10 Amp switching
- UL, CUR File E43203



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 280 W or 1200 VA Max. switched current: 10 A Max. switched voltage: 150* VDC or 400 VAC <small>*Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.</small>
Rated Load UL, CUR	10 A at 120 VAC 10 A at 28 VDC
Minimum Load	5 VDC, 0.1 A
Material	Silver alloy
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at rated load
Operate Time (typical)	8 ms at nominal coil voltage
Release Time (typical)	5 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	2500 Vrms coil to contact 1000 Vrms between open contacts
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 65°C (149°F) -40°C (-40°F) to 105°C (221°F)
Vibration	0.040" DA at 10–50 Hz
Shock	10 g operating, 100 g damage
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
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	6 grams

COIL

Power At Pickup Voltage (typical)	253 mW
Max. Continuous Dissipation	1.8 W at 20°C (68°F) ambient 1.6 W at 40°C (104°F) ambient
Temperature Rise	39°C (70°F) at nominal coil voltage
Temperature	Max. 105°C (221°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.

ZETTLER electronics

Logistic Design (UK) Limited. Unit 3, Eagle Centre Way, Luton LU4 9US www.zettlerrelay.com sales@zettlerrelay.com
Telephone +44 (0) 1582 599 600 Fax +44 (0) 1582 599 700

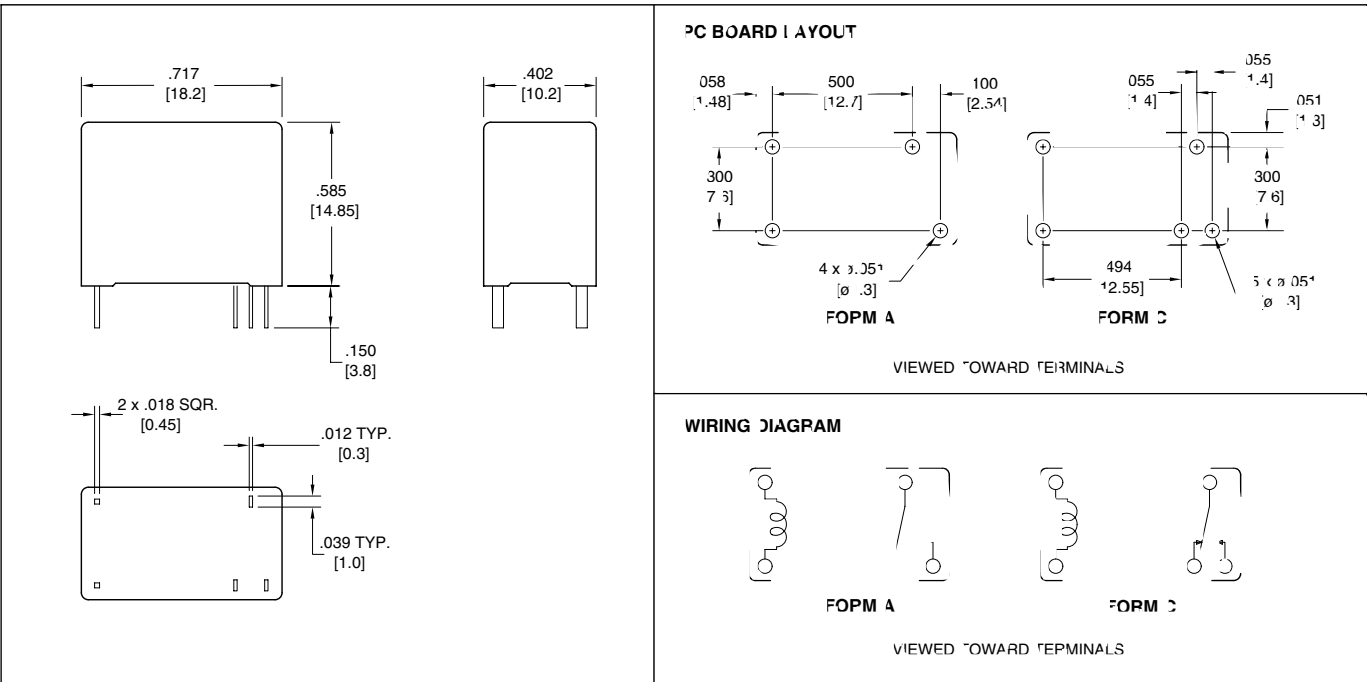
AZ765

RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	1 Form A	1 Form C
3	2.25	6.0	20	AZ765-1A-3D	AZ765-1C-3D
5	3.75	9.9	55	AZ765-1A-5D	AZ765-1C-5D
6	4.5	12.0	80	AZ765-1A-6D	AZ765-1C-6D
9	6.75	18.0	180	AZ765-1A-9D	AZ765-1C-9D
12	9.0	24.0	320	AZ765-1A-12D	AZ765-1C-12D
18	13.5	36.0	720	AZ765-1A-18D	AZ765-1C-18D
24	18.0	48.0	1,280	AZ765-1A-24D	AZ765-1C-24D

*Add suffix "E" for epoxy sealed version.

MECHANICAL DATA



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

ZETTLER electronics

Logistic Design (UK) Limited, Unit 3, Eagle Centre Way, Luton LU4 9US www.zettlerrelay.com sales@zettlerrelay.com
Telephone +44 (0) 1582 599 600 Fax +44 (0) 1582 599 700