

# AZSR165

## 65 AMP MINIATURE POWER RELAY

### FEATURES:

- Dielectric strength:> 4000Vrms
- 65 Amp switching capability
- Contact gap: >3.0 mm
- Clearance / creepage > 10mm
- Insulation: class F
- UL: E365652
- TUV: B088793008
- CQC:17002178200

### CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 26000VAC Max. switched current: 65A Max. switched voltage: 400VAC Max. continuous current: 65A
Rated Load UL/TUV/CQC	65A at 400 VAC, Res., 1k cycles, 85°C  Making 10A, Carrying 65A, Breaking 10A @400VAC, Res., 100k cycles, 85° C  Making 20A, Carrying 65A, Breaking 20A @400VAC, Res., 30k cycles, 85° C
Material	AgSnO, AgNi
Resistance	< 100mΩ initially (at 6V, 1A, voltage drop method)  < 10 mΩ initially (at 10A, voltage drop method)

### COIL

Power At pickup Voltage Max. Continuous Dissipation Temperature Rise	1246 mw (typical) 2.2 W at 20°C(68°F) ambient 70°C Max. at Rated voltage, 85°C
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	Minimum operations
Mechanical	1000,000 cycles Min.
Electrical	See UL/TUV/CQC ratings
Operate Time(typical)	40 ms Max. at nominal coil voltage
Release Time(typical)	10 ms Max. at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1min.)	4000 Vrms(coil to contacts) 2000 Vrms(between open contacts)
Surge Voltage	10KV @1.2/50μs (coil to contacts)
Insulation Resistance	1,000MΩ min. at 20°C 500VDC 50% RH
Holding voltage	Greater than 40% of nominal coil voltage
Dropout	Greater than 5% of nominal coil voltage
Ambient Temperature Operating Storage	At rated coil voltage -40°C(-40F )to 85°C(185°F) -40°C(-40F )to 105°C(221°F)
Vibration	1.5mm DA at 10-55 Hz
Shock	10g
Enclosure	P.B.T, Polyester
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C(518°F)
Max. solder time	5 seconds
Weight	76g

**ZETTLER RELAY (XIAMEN) CO., LTD.** [www.zettlercn.com](http://www.zettlercn.com)

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## RELAY ORDERING DATA

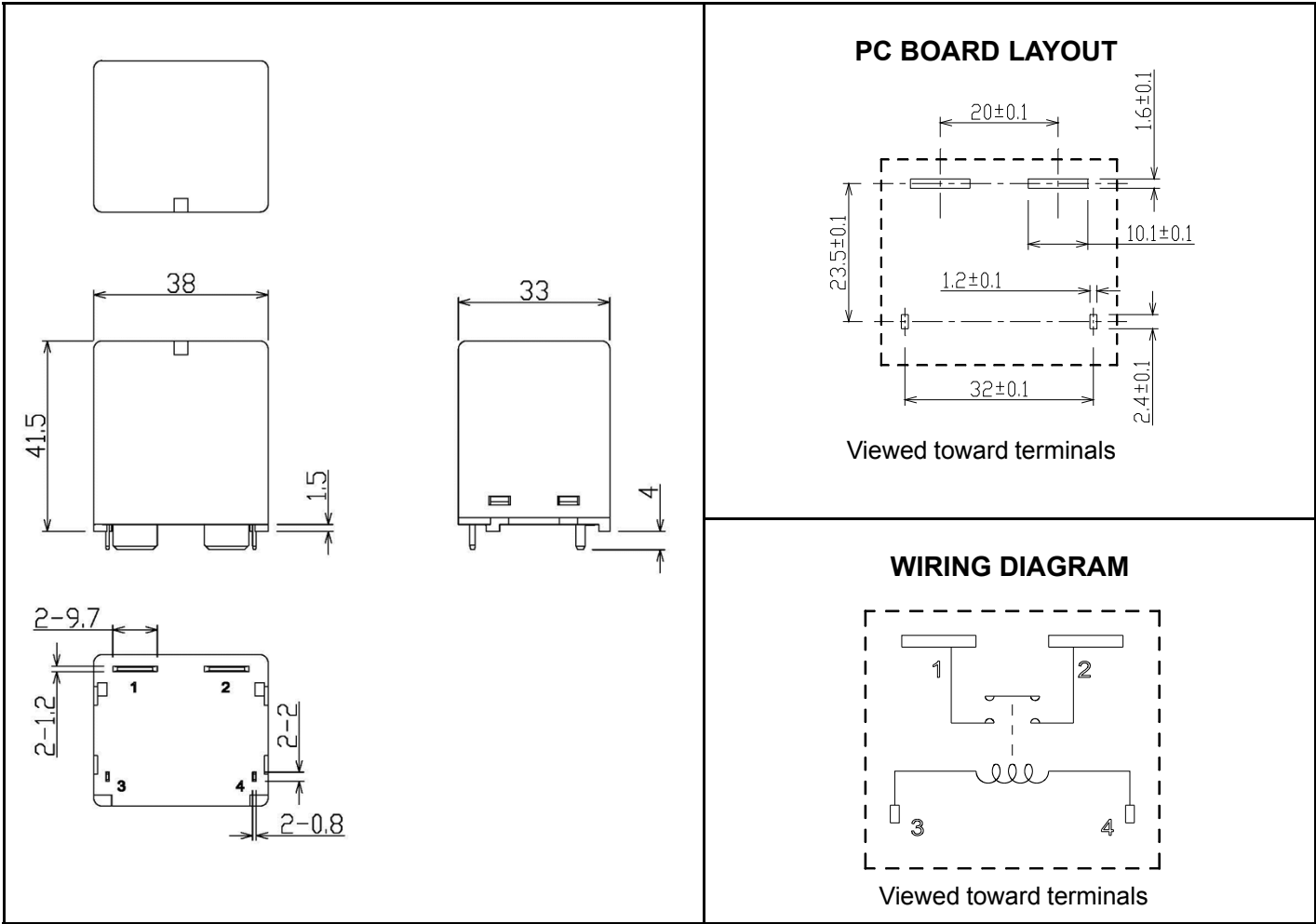
COIL SPECIFICATIONS@ 20℃					ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Min. holding VDC	Max. Continuous VDC	Coil Resistance $\Omega \pm 10\%$	
6	4.5	2.4	6.6	16.5	AZSR165-1A-6DL
9	6.75	3.6	9.9	37	AZSR165-1A-9DL
12	9	4.8	13.2	65	AZSR165-1A-12DL
24	18	9.6	26.4	260	AZSR165-1A-24DL

## NOMENCLATURE

AZSR165 - 1A E -12D L (XXX)  
I II III IV V VI

I. Basic Series AZSR165  
II. Contact Form 1A: 1 form A  
III. Contact Material Blank: AgNi E: AgSnO2  
IV. Coil Voltage 6, 9, 12, 24VDC.  
V. Height 41.5mm  
VI. Special code Additional numbers or letters, which does not designate construction features or ratings

## MECHANICAL DATA



Tolerance:  $\pm 0.5\text{mm}$

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