

AZSR165

80 AMP MINIATURE POWER RELAY

FEATURES:

- Dielectric strength 4000Vrms
- 80 Amp switching capability
- Contact gap : 3.0 mm Min
- Clearance / creepage > 10mm
- UL : E365652
- TUV : B170988793008



CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 55200 VA Max. switched current: 80A Max. switched voltage: 690VAC
Rated Load UL/TUV	Making 10A, Carrying 65A, Breaking 10A at 690VAC, Res., 100k cycles, 85°C [1] Making 20A, Carrying 65A, Breaking 20A at 690VAC, Res., 30k cycles, 85°C [1] Making 20A, Carrying 65A, Breaking 20A at 690VAC, Res., 100k cycles, 85°C [2] 80A, 540VAC, Res., 1k cycles, 85°C [1] 80A, 690VAC, Res., 1k cycles, 85°C [2]
Material	Silver Nickel [1], Silver Tin Oxide [2]
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	65A at 690 VAC, Res., 1k cycles, 85°C Making 10A, Carrying 65A, Breaking 10A /690VAC, Res., 100k cycles, 85°C
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

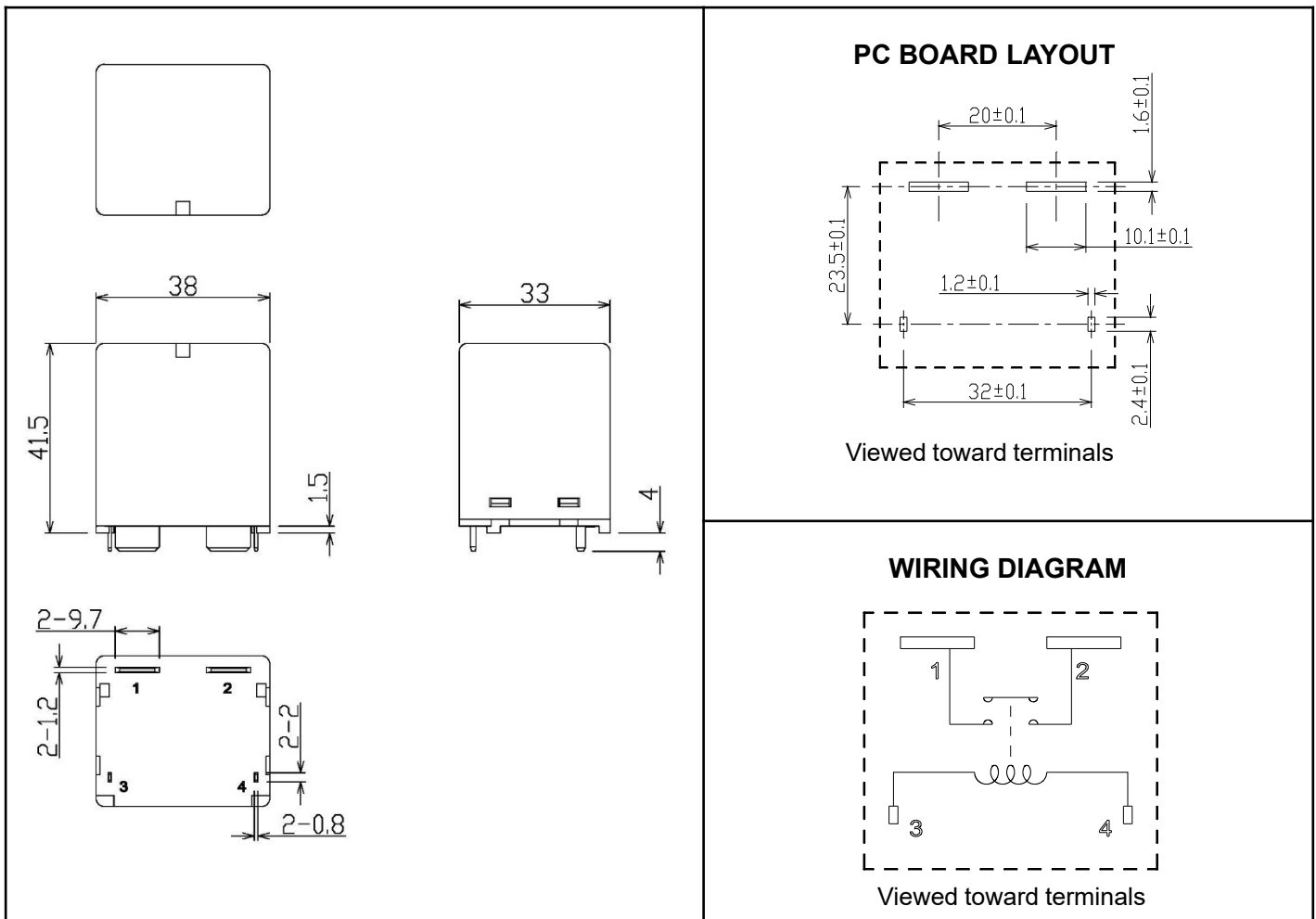
AZSR165

RELAY ORDERING DATA

COIL SPECIFICATIONS					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

*For Silver Tin Oxide contacts relplace "1A" with "1AE".

MECHANICAL DATA



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

ZETTLER

www.ZETTLER-group.com

page 2 of 2

1/09/19

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.