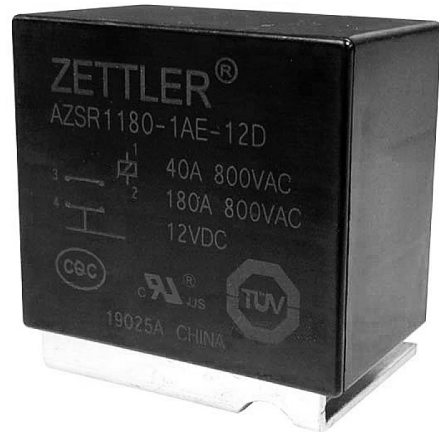


# AZSR1180

## 180 AMP POWER RELAY

### FEATURES:

- Dielectric strength 4000Vrms
- 180 Amp switching
- Contact gap : >3.2mm /3.6mm available
- Clearance / creepage > 10mm
- UL : E365652
- TUV : B 088793 0013
- Insulation Class F



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A)
<b>Ratings</b>	Resistive load: Max. switched power: 165600VA  Max. switched current: 180A Max. switched voltage: 920VAC Max. continuous current: 180A
<b>Rated Load UL/TUV</b>	920VAC Make/Break 40A, Carrying 180A, Res., 30K cycles @85°C  180A, 920VAC, Res., 50 cycles, @85°C
<b>Material</b>	AgSnO2
<b>Resistance</b>	< 100mΩ initially (at 6V, 1A, voltage drop method)

### COIL

<b>Power At Rated Voltage Max. Continuous Dissipation Temperature Rise</b>	3000 mw (typical) 3.63 W at 20°C(68°F) ambient 70°C Max. at Rated voltage,85°C
<b>Temperature</b>	Max. 155°C(311°F) class F

### NOTES

- 1.All values are initial 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</b>	Minimum operations 1000,000 cycles Min.
<b>Electrical</b>	See rated load
<b>Operate Time(typical)</b>	40 ms Max. at nominal coil voltage(not include bounce time)
<b>Release Time(typical)</b>	15 ms Max. at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1min.)</b>	4000 Vrms(coil to contacts) 2000 Vrms(between open contacts)
<b>Surge Voltage</b>	10KV @1.2/50μs (coil to contacts) 8150V @1.2/50μs(between open contacts)
<b>Insulation Resistance</b>	1,000MΩ min. at 20°C 500VDC 50% RH
<b>Holding voltage</b>	Greater than 40% of nominal coil voltage
<b>Dropout</b>	Greater than 5% of nominal coil voltage
<b>Ambient Temperature Operating Storage</b>	At rated coil voltage  -40°C(-40F )to 85°C(185°F)
<b>Vibration</b>	1.5mm DA at 10-55 Hz
<b>Shock</b>	10g
<b>Enclosure</b>	P.B.T, Polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C(518°F)
<b>Max. solder time</b>	5 seconds
<b>Weight</b>	265g

# AZSR1180

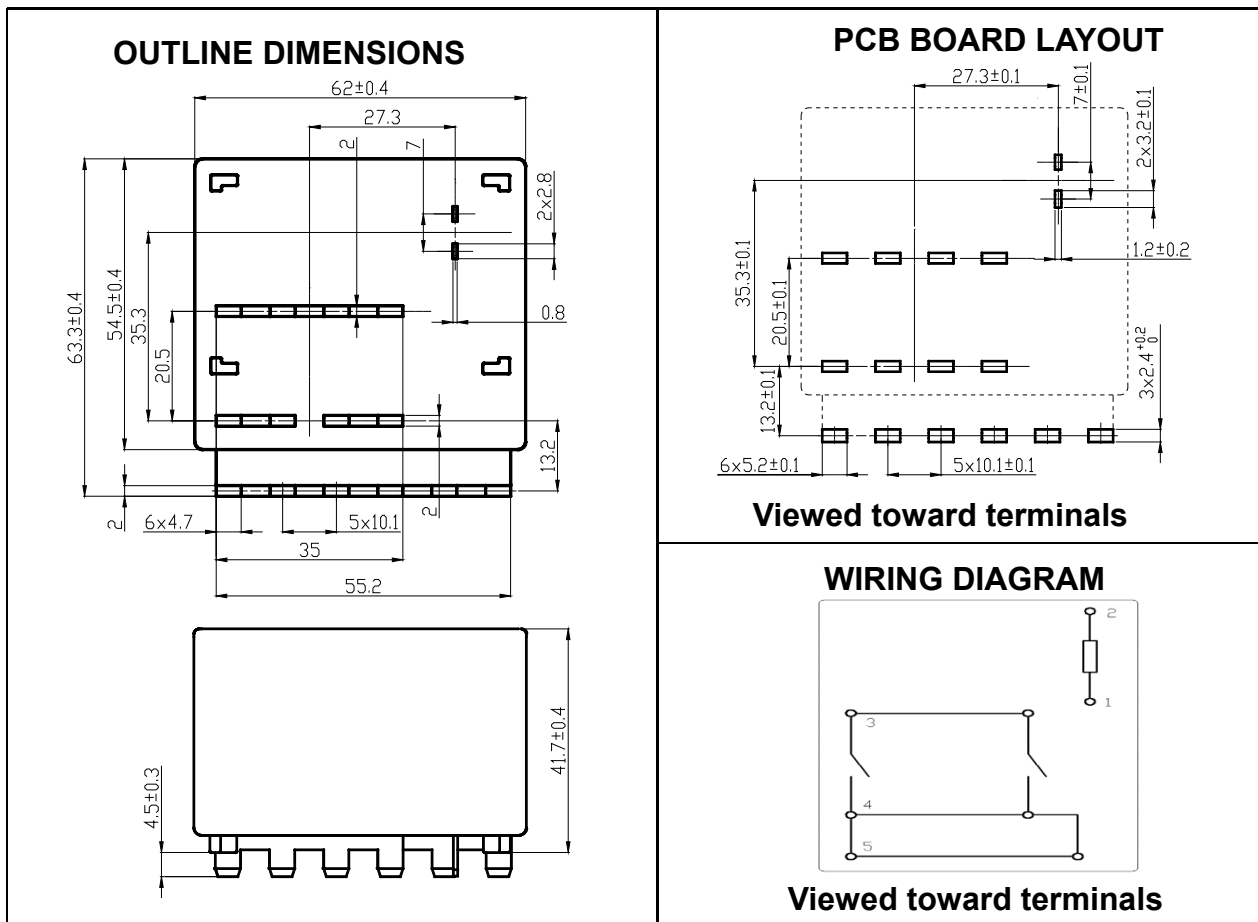
## RELAY ORDERING DATA

COIL SPECIFICATIONS @20°C*					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	12	AZSR1180-1AE-6D
9	6.7	3.6	9.9	27	AZSR1180-1AE-9D
12	9	4.8	13.2	48	AZSR1180-1AE-12D
24	18	9.6	26.4	192	AZSR1180-1AE-24D
48	36	19.2	52.8	768	AZSR1180-1AE-48D

\*Terminal down-wards direction for operation voltage parameter.

Add Suffix, (360) for 3.6mm gap.

## MECHANICAL DATA



**AMERICAN ZETTLER, INC.**

5/14/19

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E-MAIL: SALES@AZETTLER.COM

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.