# AZSR180.

## 80A POWER RELAY

### FEATURES:

- 80 Amp switching
- Wide contact gap > 2.05 mm
- Holding power <100 mW
- Dielectric strength 5000 Vrms
- Isolation spacing greater than 10 mm
- Double insulation, EN 60730-1 (VDE 0631, part 1)
- Reinforced insulation, EN 60335-1 (VDE 0700, part 1)
- VDE 40044305
- UL, CUR E44211
- CQC certificate 17002162259

## CONTACTS

Arrangement	SPST (1 Form A)		
Ratings	Resistive load: Max. switched power: 2400 W or 22160 VA Max. switched current: 80 A (1000 cycles) Max. continuous current: 80 A Max. switched voltage: 150 VDC* or 440 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.		
Rated Load			
VDE	80 A at 277 VAC, resistive, 1k cycles, 85 ී 30 A at 263 VAC, AC-7a, 30k cycles, 85 ී		
UL	80 A at 277 VAC, resistive, 1k cycles		
CQC	80 A at 380 VAC, resistive, 1k cycles, $85 \degree$ 30 A at 380 VAC, resistive, 30k cycles, $85\degree$		
Material	Silver tin oxide		
Resistance	esistance <pre>&lt;50 mΩ initially (at 6V,1A,voltage drop method)</pre>		

#### COIL

Power			
At pickup Voltage	270 mW (typical)		
Max. Continuous Dissipation	2.0 W at 20°C(68°F) ambient		
Temperature Rise	15°C(27°F) at nominal coil voltage		
Temperature	Max. 155℃ (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
- Recommended PCB cross section 16 mm<sup>2</sup>
   PCB terminal downward mounting is prefer

## GENERAL DATA

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Life Expectancy Mechanical Electrical	Minimum operations Mechanical 1 x $10^5$ Electrical 3 x $10^4$ at 30 A 250 VAC Res.					
Operate Time(typical)	40 ms at nominal coil voltage					
Release Time(typical)	5 ms at nominal coil voltage (with no coil suppression)					
Dielectric Strength (at sea level for 1min.)	5000 Vrms coil to contact 2500 Vrms between open contacts					
Insulation Resistance	1,000 MΩ min. at 20℃ 500VDC 50% RH					
Insulation (according to DIN VDE 0110, IEC 60664-1)	C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC					
Dropout	Greater than 5% of nominal coil voltage					
Ambient Temperature Operating	At rated coil voltage -40℃(-40°F)to 85℃(185°F)					
Vibration	0.062" (1.5 mm) at 10–55 Hz					
Shock	10g					
Enclosure	PA					
Terminals	Tinned copper alloy, P.C.					
Max. Solder Temp.	<b>270℃(518</b> ℉)					
Max. solder time	5 seconds					
Weight	105g					
Packing unit in pcs	10 per inner carton / 100 per carton box					

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## **RELAY ORDERING DATA**

COIL SPECIFICATIONS-SPST(1 FORM A)					
Nominal Coil VDC	Must Operate VDC	Min. holding VDC	Max. Continuous VDC	Coil Resistance $\Omega \pm 10\%$	ORDER NUMBER
12	9.00	4.0	24.0	300	AZSR180-1AE-12D
24	18.0	8.0	48.0	1200	AZSR180-1AE-24D

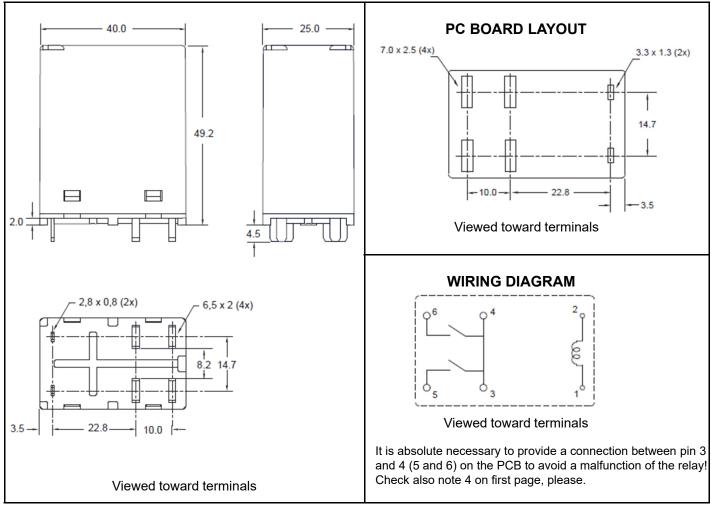
#### NOMENCLATURE

AZSR180 - <u>1A</u> <u>E</u> -12D I II III IV I. Basic Series II. Contact Form III. Contact Material

IV. Coil Voltage

AZSR180 1A: 1 form A E: AgSnO<sub>2</sub> 6, 9, 12, 24VDC.

#### **MECHANICAL DATA**



Tolerance:  $\pm$  0.25mm

Disclaimer: The specification is for reference only. We could not evalue all the performance and all the parameters for every possible application. Thus the user should evaluate and select the suitable product for their own application. If there is any query, please contact ZETTLER. However, it is the user's responsibility to determine which product should be used only.

免责声明:此规格书仅用于参考。我们不能评估所有可能的应用条件下的性能和参数,所以用户需根据自己的应用评估和选择合适的产品。如有疑问,可以咨询赛特勒;但仍然是用户的责任来选择和使用产品。

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