# AZSR180

## 80A POWER RELAY

### FEATURES

- 80 Amp switching
- Wide contact gap > 2.05mm
- Holding power <100 mW</li>
- 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)
- UL, CUR E44211

CONTACTS

• VDE certificate 40044305



Minimum operations

3 x 10<sup>4</sup> at 30 A 250 VAC Res.

40 ms at nominal coil voltage

5 ms at nominal coil voltage (with no coil suppression)

5000 Vrms coil to contact

Overvoltage category: III

Nominal voltage: 250 VAC

-40°C (-40°F) to 85°C (185°F) 0.062" (1.5 mm) DA at 10–55 Hz

At nominal coil voltage

Tinned copper alloy, P.C.

270°C (518°F)

5 seconds

105 grams

Greater than 5% of nominal coil voltage

10 per inner carton / 100 per carton box

500 VDC 50% RH

Pollution degree: 3

C250

10 a

PA

1000 megohms min. at 20°C

2500 Vrms between open contacts

1 x 10<sup>5</sup>

#### GENERAL DATA

Mechanical

Electrical

**Operate Time (typical)** 

**Release Time (typical)** 

(at sea level for 1 min.)

**Dielectric Strength** 

Insulation

Resistance

Insulation (according to

DIN VDE 0110,

**Ambient Temperature** 

Operating

IEC 60664-1)

Dropout

Vibration

Enclosure

Terminals

Weight

Max. Solder Temp.

Max. Solder Time

Packing unit in pcs

Shock

Life Expectancy

Arrangement	SPST (1 Form A)				
Ratings	Resistive load:Max. switched power:2400 W or 22160 VAMax. switched current:80A (1000 cycles)Max. continuous current:80A				
	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 UL VDE	80A at 277VAC, resistive, 1K cycles 80A at 380VAC, resistive, 1K cycles, 85°C 30A at 380VAC, resistive, 30K cycles, 85°C 80A at 277VAC, resistive, 1k cycles, 85°C				
Material	30A at 263VAC, AC-7a, 30k cycles , 85°C				
Resistance	< 50 milliohms initially				

COIL

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

## AMERICAN ZETTLER, INC.

PHONE: (949) 831-5000

www.azettler.com

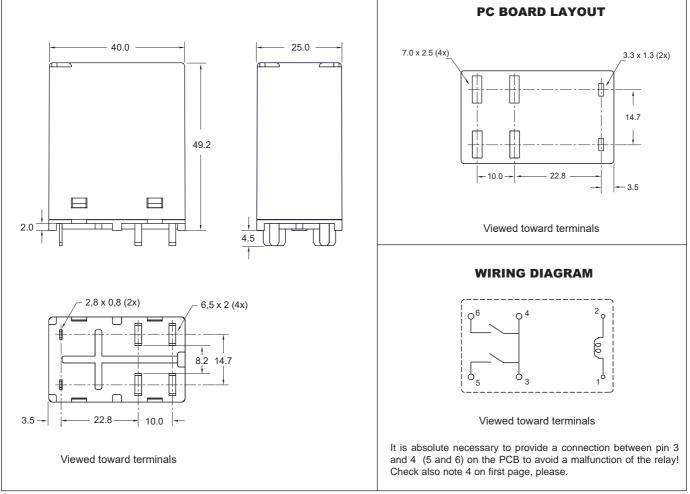
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## AZSR180 \_\_\_

#### RELAY ORDERING DATA

COIL SPECIFICATIONS - SPST (1 FORM A)							
Nominal Coil VDC	Must Operate VDC	Min. Holding VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	ORDER NUMBER		
12	9.00	4.0	24.0	300	AZSR180-1AE-12D		
24	18.00	8.0	48.0	1200	AZSR180-1AE-24D		

## MECHANICAL DATA



Dimensions in mm. Tolerance: ± .25 mm

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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.