# AZSR250

## **50A**

## MINIATURE POWER RELAY

#### **FEATURES**

- 50 Amp switching
- Wide contact gap > 1.85mm
- Holding power <100mW
- Dielectric strength 5000Vrms
- Isolation spacing greater than 10mm
- Reinforced insulation, EN 60730-1 (VDE 0631, part 1), EN 60335-1 (VDE 0700, part 1)
- UL, CUR file E44211
- VDE certificate 40033251

#### **CONTACTS**

Arrangement SPST (1 Form A) DPST (2 Form A)  Ratings Resistive load:  AZSR250 Max. switched power: 1500W or 13850VA Max. switched current: 55A 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 AZSR250 55A at 277 VAC, resistive  VDE AZSR250 50A at 263 VAC, test refering to AC-7a, 85°C  Material Silver tin oxide		•					
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#### COIL

Power At Pickup Voltage (typical)	270 mW
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°C (311°F) Class F

### **RoHS compliant!**



#### **GENERAL DATA**

Life Expectancy Mechanical Electrical	Minimum operations $1 \times 10^6$ $5 \times 10^4$ at 55A 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 1 min.)	5000 Vrms coil to contact 2500 Vrms between contact sets 2500 Vrms between open contacts		
Insulation Resistance	1000 megohms min. at 20°C 500 VDC 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 nominal coil voltage -40°C (-40°F) to 85°C (185°F)		
Vibration	0.062" (1.5 mm) DA at 10-55 Hz		
Shock	10 g		
Enclosure	P.B.T. polyester		
Terminals	Tinned copper alloy, P.C.		
Max. Solder Temp.	270°C (518°F)		
Max. Solder Time	5 seconds		
Weight	105 grams		
Packing unit in pcs	10 per inner carton / 100 per carton box		

#### **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.



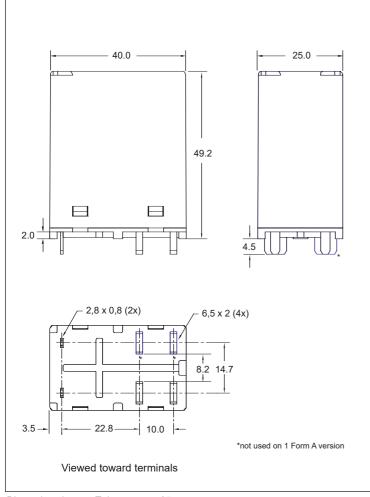
# **AZSR250**

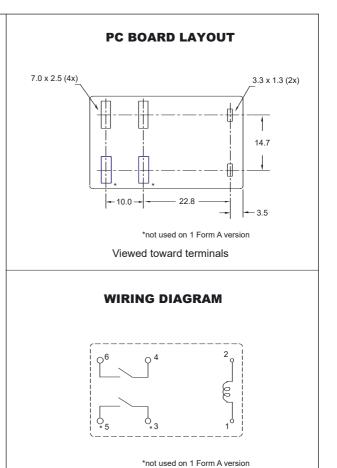
#### **RELAY ORDERING DATA**

COIL SPECIFICATIONS - SPST (1 FORM A)					
Nominal Coil VDC	Must Operate VDC	Min. Holding VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	ORDER NUMBER
5	3.75	1.7	10.0	50	AZSR250-1AE-5D
9	6.75	3.1	18.0	170	AZSR250-1AE-9D
12	9.00	4.0	24.0	300	AZSR250-1AE-12D
18	13.50	6.5	36.0	675	AZSR250-1AE-18D
24	18.00	8.0	48.0	1200	AZSR250-1AE-24D

	COIL SPECIFICATIONS - DPST (2 FORM A)				
Nominal Coil VDC	Must Operate VDC	Min. Holding VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	ORDER NUMBER
5	3.75	2.1	10.0	50	AZSR250-2AE-5D
9	6.75	3.8	18.0	170	AZSR250-2AE-9D
12	9.00	5.0	24.0	300	AZSR250-2AE-12D
18	13.50	7.5	36.0	675	AZSR250-2AE-18D
24	18.00	10.0	48.0	1200	AZSR250-2AE-24D

#### MECHANICAL DATA





Viewed toward terminals

Dimensions in mm. Tolerance:  $\pm$  .25 mm

### **ZETTLER**