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	ent 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					
Resistance	< 50 milliohms initially					

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	Minimum operations		
Mechanical	1 x 10 ⁶		
Electrical	5 x 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	5000 Vrms coil to contact		
(at sea level for 1 min.)	2500 Vrms between contact sets		
	2500 Vrms between open contacts		
Insulation	1000 megohms min. at 20°C		
Resistance	500 VDC 50% RH		
resistance	300 VBO 30 /		
Insulation	C250		
(according to	Overvoltage category: III		
DIN VDE 0110,	Pollution degree: 3		
IEC 60664-1)	Nominal voltage: 250 VAC		
Dropout	Greater than 5% of nominal coil voltage		
Ambient Temperature	At nominal coil voltage		
Operating	-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.

AMERICAN ZETTLER, INC.

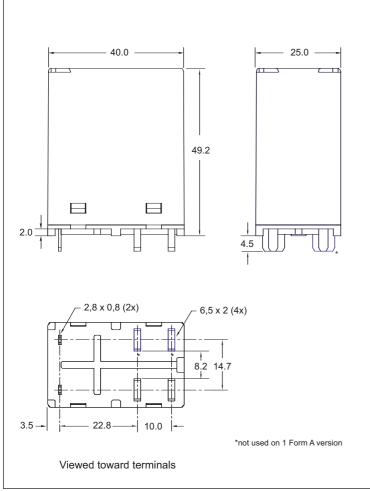
AZSR250

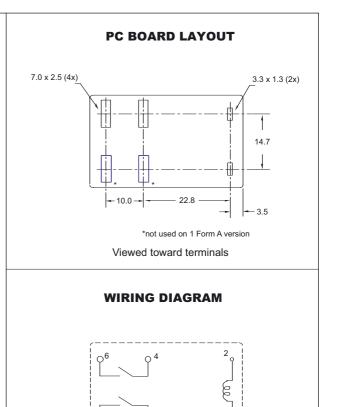
RELAY ORDERING DATA

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





*not used on 1 Form A version

Viewed toward terminals

Dimensions in mm. Tolerance: ± .25 mm