AZSR235/250

50A (35A)

MINIATURE POWER RELAY

FEATURES

- 50 Amp switching (AZSR250)
- 35 Amp switching (AZSR235)
- Wide contact gap > 1.85mm (AZSR250)
- Wide contact gap > 2.05mm (AZSR235)
- 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

	1						
Arrangement	SPST (1 Form A)						
	DPST (2 Form A)						
	<u> </u>						
Ratings	Resistive load:						
	AZSR235						
	Max. switched power: 1050W or 9695VA						
	Max. switched current: 35A						
	Max. switched voltage: 150 VDC* or 440 VAC						
	AZSR250						
	Max. switched power: 1500W or 13850VA						
	Max. switched current: 50A						
	Max. switched voltage: 150 VDC* or 440 VAC						
	* Note: If quitching voltage is greater than 201/DC						
	* Note: If switching voltage is greater than 30 VDC, special precautions must be taken.						
	Please contact the factory.						
Rated Load							
UL	A70D005						
l or	AZSR235						
	35A at 277 VAC, resistive						
	AZSR250						
	50A at 277 VAC, resistive						
	JOA di 211 VAO, Tesistive						
VDE	A7SR235						
	35A at 263 VAC, test refering to AC-7a, 85°C						
	AZSR250						
	50A at 263 VAC, test refering to AC-7a, 85°C						
Material	Silver tin oxide						
	< 50 milliohms initially						
Resistance	< 50 milliohms initially						

COIL

Power At Pickup Voltage (typical)	270 mW (AZSR250)
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 x 10 ⁶ 5 x 10 ⁴ at 35 A 250 VAC Res. (AZSR235) 5 x 10 ⁴ at 50 A 250 VAC Res. (AZSR250)			
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.

AMERICAN ZETTLER, INC.

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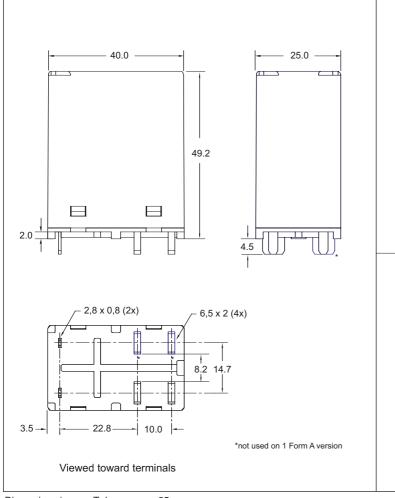
AZSR235/250

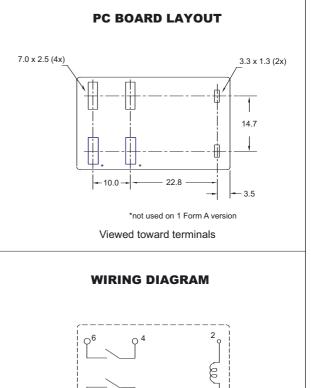
RELAY ORDERING DATA

COIL SPECIFICATIONS - SPST (1 FORM A)				ORDER NUMBER		
Nominal Coil VDC	Must Operate VDC	Min. Holding VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	AZSR235-1A (35A)	AZSR250-1A (50A)
5	3.75	1.7	10.0	50	AZSR235-1AE-5D	AZSR250-1AE-5D
9	6.75	3.1	18.0	170	AZSR235-1AE-9D	AZSR250-1AE-9D
12	9.00	4.0	24.0	300	AZSR235-1AE-12D	AZSR250-1AE-12D
18	13.50	6.5	36.0	675	AZSR235-1AE-18D	AZSR250-1AE-18D
24	18.00	8.0	48.0	1200	AZSR235-1AE-24D	AZSR250-1AE-24D

COIL SPECIFICATIONS - DPST (2 FORM A)				ORDER NUMBER		
Nominal Coil VDC	Must Operate VDC	Min. Holding VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	AZSR235-2A (35 A)	AZSR250-2A (50 A)
5	3.75	2.1	10.0	50	AZSR235-2AE-5D	AZSR250-2AE-5D
9	6.75	3.8	18.0	170	AZSR235-2AE-9D	AZSR250-2AE-9D
12	9.00	5.0	24.0	300	AZSR235-2AE-12D	AZSR250-2AE-12D
18	13.50	7.5	36.0	675	AZSR235-2AE-18D	AZSR250-2AE-18D
24	18.00	10.0	48.0	1200	AZSR235-2AE-24D	AZSR250-2AE-24D

MECHANICAL DATA





*not used on 1 Form A version

Viewed toward terminals

Dimensions in mm. Tolerance: ± .25 mm

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