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

CONTACTS

• VDE certificate 40033251



Minimum operations

3 x 10⁴ at 50A 250 VAC Res.

1 x 10⁶

GENERAL DATA

Arrangement	SPST (1 Form A) DPST (2 Form A)	Life Expectancy Mechanical Electrical
Ratings	Resistive load:	Licentear
	AZSR250	Operate Time (typica
	Max. switched power: 1500W or 13850VA Max. switched current: 55A Max. switched voltage: 150 VDC* or 440 VAC	Release Time (typica
		Dielectric Strength (at sea level for 1 mi
	* Note: If switching voltage is greater than 30 VDC	Insulation Resistance
	special precautions must be taken. Please contact the factory.	Insulation (according to
Rated Load UL	AZSR250	DIN VDE 0110, IEC 60664-1)
	50A at 277 VAC, resistive, 85°C	Dropout
		Ambient Temperatur Operating
VDE	4760250	Vibration
	50A at 263 VAC, test refering to AC-7a, 85°C	Shock
		Enclosure
		Terminals
Material	Silver tin oxide	Max. Solder Temp.
Resistance	< 50 milliohms initially	May, Calden Time

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			

ical) 40 ms at nominal coil voltage ical) 5 ms at nominal coil voltage (with no coil suppression) 5000 Vrms coil to contact min.) 2500 Vrms between contact sets 2500 Vrms between open contacts 1000 megohms min. at 20°C 500 VDC 50% RH C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC Greater than 5% of nominal coil voltage At nominal coil voltage ure -40°C (-40°F) to 85°C (185°F) 0.062" (1.5 mm) DA at 10-55 Hz 10 g P.B.T. polyester Tinned copper alloy, P.C. 270°C (518°F) 5 seconds Max. Solder Time 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 SPEC				
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



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.