

AZSR143

50 AMP MINIATURE POWER RELAY

FEATURES:

- Dielectric strength 4500Vrms, 10kV surge
- 50 Amp switching capability
- Contact gap : 1.8mm
- UL class F insulation system
- UL : E365652
- TUV : B 088793 0015
- CQC : 19002227975



CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 13850VA Max. switched current: 50A Max. switched voltage: 277VAC Max. continuous current: 50 A
UL/TUV/ CQC	43A at 277 VAC, resistive, 85°C, 30k cycles 33A at 277 VAC, resistive, 105°C, 30k cycles 50A at 277 VAC, resistive, 85°C, 6k cycles 20A 277VAC on, carrying 50A, 20A 277VAC off, Res., 50k cycles, 85°C
Material	AgSnO ₂ (Silver tin oxide)
Resistance	<100 mΩ initially (at 6V, 1A, voltage drop method)

COIL

Power At pickup Voltage Max. Continuous Dissipation Temperature Rise	900 mW (typical) 2.3 W at 20°C (68°F) ambient 70°C Max. at Rated voltage, 43A, 85°C
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

GENERAL DATA

Life Expectancy Mechanical	Minimum operations 100,000 cycles Min.
Electrical	See UL/TUV/CQC ratings
Operate Time	20 ms Max. at nominal coil voltage
Release Time	10 ms Max. at nominal coil voltage (with no coil suppression)
Dielectric Strength (Initial.)	4500 Vrms (coil to contacts) 2500 Vrms (between open contacts)
Surge Voltage	10 kV @1.2/50μs (coil to contacts)
Insulation Resistance	1,000 MΩ min. at 20°C 500VDC 50% RH
Holding voltage	Greater than 35% of nominal coil voltage
Dropout	Greater than 5% of nominal coil voltage
Ambient Temperature Operating Storage	At rated coil voltage -40°C(-40°F) to 85°C(185°F) -40°C(-40°F) to 105°C(221°F)
Vibration	1.5 mm DA at 10-55 Hz
Shock	20 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	25 g
Packing unit in pcs	50 per tray/500 per carton box

ZETTLER RELAY (XIAMEN) CO., LTD.

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2/27/2020

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RELAY ORDERING DATA

COIL SPECIFICATIONS @20°C					ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Min. holding VDC	Max. Continuous VDC	Coil Resistance $\Omega \pm 10\%$	
5	3.75	1.75	6	15.5	AZSR143-1AE-5D
9	6.75	3.20	10.8	50.5	AZSR143-1AE-9D
12	9	4.2	14.4	90	AZSR143-1AE-12D
18	13.5	6.3	21.6	202.5	AZSR143-1AE-18D
24	18	8.4	28.8	360	AZSR143-1AE-24D
48	36	16.8	57.6	1440	AZSR143-1AE-48D

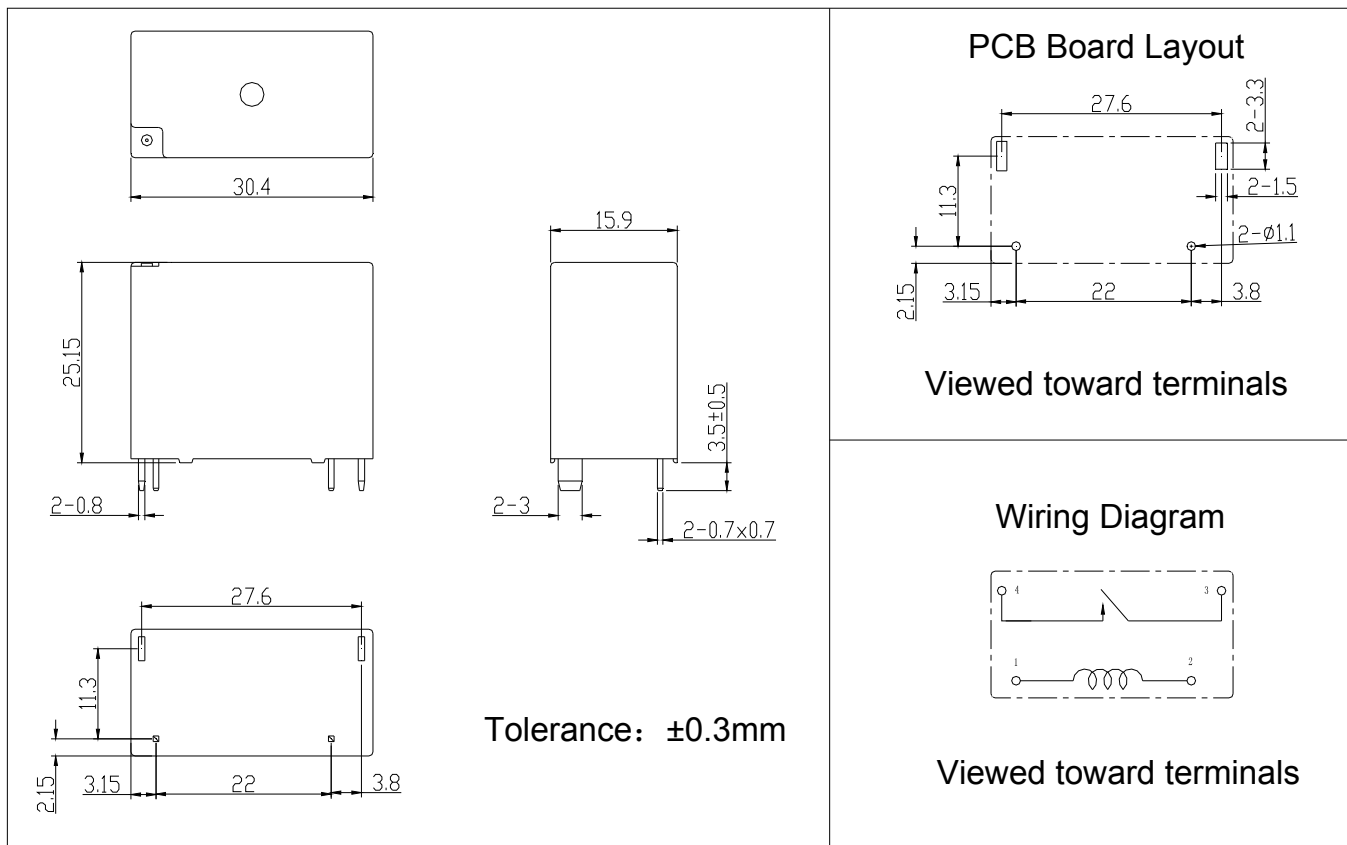
NOMENCLATURE

AZSR143 - 1A E - 12D (XXX)

I II III IV V

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|-----------------------|--|
| I. Basic Series | AZSR143 |
| II. Contact Form | 1A: 1 form A |
| III. Contact Material | E: AgSnO ₂ |
| IV. Coil Voltage | 5, 9, 12, 18, 24, 48 VDC. |
| V. Special code | Additional numbers or letters, which does not designate construction features or ratings |

MECHANICAL DATA



Disclaimer: The specification is for reference only. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should evaluate and select the suitable product for their own application. If there is any query, please contact ZETTLER. However, it is the user's responsibility to determine which product should be used only.

免责声明：此规格书仅用于参考。我们不能评估所有可能的应用条件下的性能和参数，所以用户需根据自己的应用评估和选择合适的产品。如有疑问，可以咨询赛特勒；但仍然是用户的责任来选择和使用产品。

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