

AZSR190

90/100 AMP MINIATURE POWER RELAY

FEATURES:

- Dielectric strength 5000Vrms
- 90 Amp switching (version "T" 100Amp)
- Contact gap :> 3.6 mm
- Clearance / creepage > 10mm
- Insulation: class F
- UL :E365652
- TUV: B088793008
- CQC: 17002178200

CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 43200VA Max. switched power: 48000VA ("T" version) Max. switched current: 90A Max. continuous current: 100A ("T" version) Max. switched voltage: 800VAC
Rated Load UL/TUV/CQC	90A at 480 VAC, Res., 1k cycles, 85°C 100A at 480 VAC, Res., 1k cycles, 85°C ("T" Ver.) 55A at 480 VAC, Res., 30k cycles, 85°C 55A at 800 VAC, Res., 1k cycles, 85°C
Material	AgNi, AgSnO
Resistance	< 100mΩ initially (at 6V, 1A, voltage drop method) < 10 mΩ initially (at 10A, voltage drop method)

COIL

Power At pickup Voltage Max. Continuous Dissipation Temperature Rise	1080 mw (typical) 2.32 W at 20°C(68°F) ambient 70°C Max. at Rated voltage,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 Electrical	Minimum operations 1000,000 cycles Min. See UL/TUV/CQC ratings
Operate Time(typical)	40 ms Max. at nominal coil voltage
Release Time(typical)	10 ms Max. at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1min.)	5000 Vrms(coil to contacts) 2000 Vrms(between open contacts)
Surge Voltage	10KV @1.2/50μs (coil to contacts)
Insulation Resistance	1,000MΩ min. at 20°C 500VDC 50% RH
Holding voltage	Greater than 40% of nominal coil voltage
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating Storage	At rated coil voltage -40°C(-40F)to 85°C(185°F) -40°C(-40F)to 105°C(221°F)
Vibration	1.5mm DA at 10-55 Hz
Shock	10g
Enclosure	P.B.T, Polyester
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C(518°F)
Max. solder time	5 seconds
Weight	85g

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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 $\Omega \pm 10\%$	
6	4.5	2.4	6.6	18.8	AZSR190-1A-6D
9	6.75	3.6	9.9	42.2	AZSR190-1A-9D
12	9	4.8	13.2	75	AZSR190-1A-12D
24	18	9.6	26.4	300	AZSR190-1A-24D

*Add suffix "T" to AZSR190 for high current version. Add suffix "L" for short version (see mechanical data).

NOMENCLATURE

AZSR190 - 1A E -12D L (XXX)

I II III IV V VI

- I. Basic Series
- II. Contact Form
- III. Contact Material
- IV. Coil Voltage
- V. Base height
- VI. Special code

AZSR190 or AZSR190T

1A: 1 form A

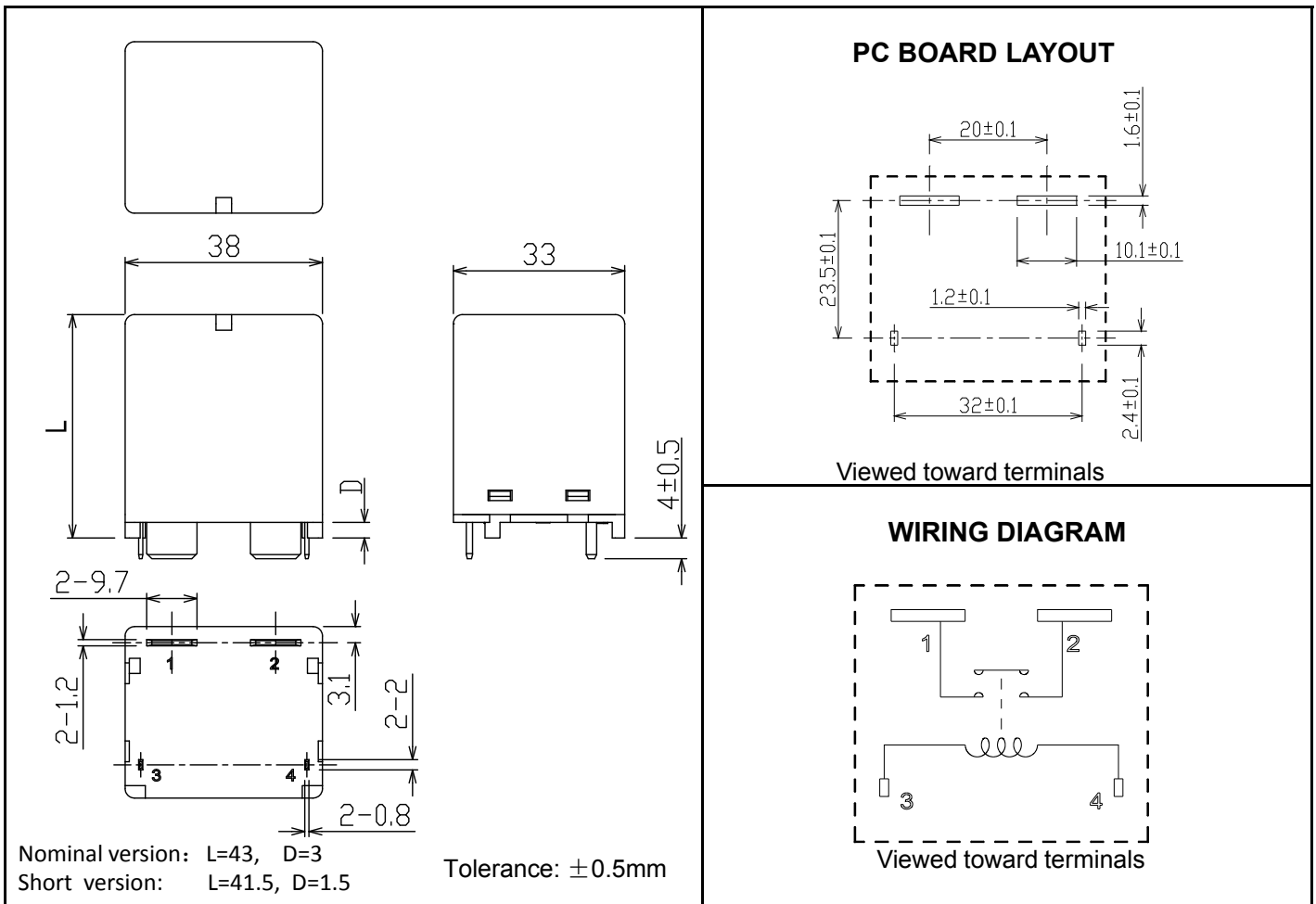
Blank: AgNi E: AgSnO₂

6, 9, 12, 24VDC.

Blank: basic height L: short height (see mechanical data)

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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