

# 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

<b>Arrangement</b>	SPST (1 Form A)
<b>Ratings</b>	Resistive load: Max. switched power: 44000VA 48000VA ("T" version) Max. switched current: 90A 100A("T" version) Max. continuous current: 90A 100A ("T" version) Max. switched voltage: 800VAC
<b>Rated Load UL/TUV/CQC</b>	90A at 277 VAC, Res., 1k cycles, 85°C [1] 100A at 277 VAC, Res., 1k cycles, 85°C [1] (T version only) 55A at 480 VAC, Res., 30k cycles, 85°C [1] 30A at 480 VAC, Res., 50k cycles, 85°C [1] 55A at 690 VAC, Res., 20k cycles, 85°C [1]  90A at 480 VAC, Res., 1k cycles, 85°C [2] 100A at 480 VAC, Res., 1k cycles, 85°C [2] (T version only) 55A at 690 VAC, Res., 30k cycles, 85°C [2] 80A at 277VAC Res., 10k cycles, 85°C [2]  55A at 800 VAC, Res., 1k cycles, 85°C [1][2]
<b>Material</b>	Silver Nickel [1], Silver Tin Oxide [2]
<b>Resistance</b>	< 100mΩ initially (at 6V, 1A, voltage drop method)  < 10 mΩ initially (at 10A, voltage drop method)

### COIL

<b>Power At pickup Voltage Max. Continuous Dissipation Temperature Rise</b>	1080 mw (typical) 2.32 W at 20°C(68°F) ambient 70°C Max. at Rated voltage,85°C
<b>Temperature</b>	Max. 155°C(311°F) class F

### GENERAL DATA

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 1000,000 cycles Min. 55A at 480 VAC, Res., 30k cycles, 85°C [1] 55A at 690 VAC, Res., 30k cycles, 85°C [2]
<b>Operate Time</b>	40 ms Max. at nominal coil voltage
<b>Release Time</b>	10 ms Max. at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1min.)</b>	5000 Vrms(coil to contacts) 2500 Vrms(between open contacts)
<b>Surge Voltage</b>	10KV @1.2/50μs (coil to contacts)
<b>Insulation Resistance</b>	1,000MΩ min. at 20°C 500VDC 50% RH
<b>Holding voltage</b>	Greater than 40% of nominal coil voltage
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature Operating Storage</b>	At rated coil voltage -40°C(-40F )to 85°C(185°F) -40°C(-40F )to 105°C(221°F)
<b>Vibration</b>	1.5mm DA at 10-55 Hz
<b>Shock</b>	10g
<b>Enclosure</b>	P.B.T, Polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C(518°F)
<b>Max. solder time</b>	5 seconds
<b>Weight</b>	85g

### 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.

**ZETTLER RELAY (XIAMEN) CO., LTD.** [www.zettlercn.com](http://www.zettlercn.com)

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# AZSR190

## 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

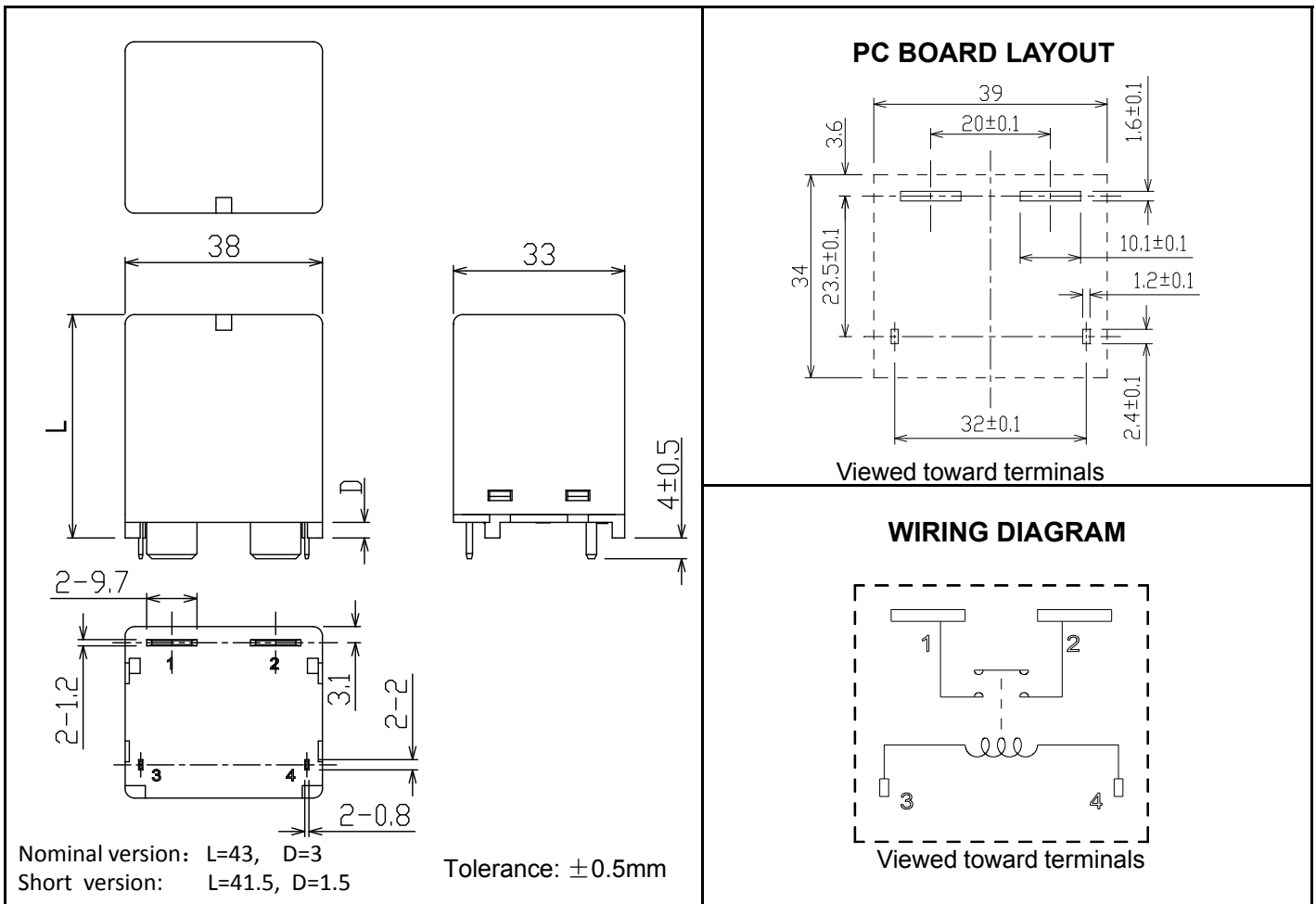
Blank: AgNi E: AgSnO<sub>2</sub>

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.

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