

AZSR190

90/100 AMP MINIATURE POWER RELAY

FEATURES:

- Dielectric strength 5000 Vrms
- 90 Amp switching (version "T" 100 Amp)
- Contact gap >3.6 mm
- Clearance / creepage >10 mm
- Insulation: class F
- UL: E365652
- TUV: B0887930008
- CQC: 17002178200



CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 44000 VA 48000 VA ("T" version) Max. switched current: 90A 100A ("T" version) Max. continuous current: 90A 100A ("T" version) Max. switched voltage: 800VAC
Rated Load UL/TUV/CQC	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]
Material	Silver Nickel [1], Silver Tin Oxide [2]
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

GENERAL DATA

Life Expectancy Mechanical Electrical	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]
Operate Time	40 ms Max. at nominal coil voltage
Release Time	10 ms Max. at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1min.)	5000 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 40% of nominal coil voltage
Dropout	Greater than 10% 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	1.5mm 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	85 g

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

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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

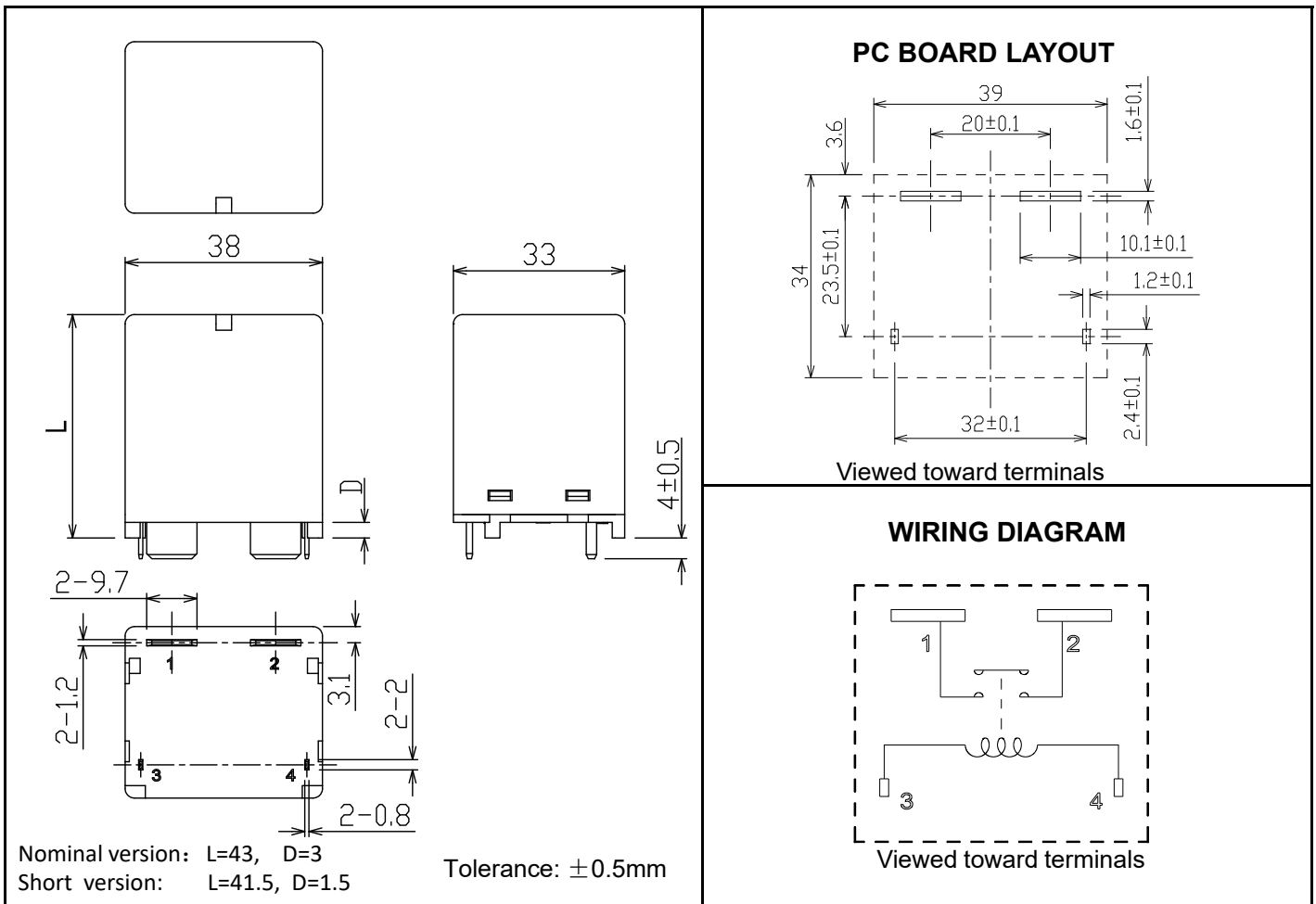
*Add suffix "T" to AZSR190 for high current version. Add suffix "L" for short version (see mechanical data).

NOMENCLATURE

AZSR190 - 1A E -12D L (XXX)
 I II III IV V VI

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|-----------------------|--|
| I. Basic Series | AZSR190 or AZSR190T |
| II. Contact Form | 1A: 1 form A |
| III. Contact Material | Blank: AgNi E: AgSnO ₂ |
| IV. Coil Voltage | 6, 9, 12, 24VDC. |
| V. Base height | Blank: basic height L: short height (see mechanical data) |
| VI. 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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