# AZSR190\_

# 100 AMP MINIATURE POWER RELAY

#### **FEATURES:**

- Dielectric strength 5000Vrms
- 100 Amp switching (version"T"100Amp)
- Contact gap : 3.6 mm available
- Clearance / creepage > 10mm
- UL: E365652
- TUV: B170988793008



## **CONTACTS**

Arrangement	SPST (1 Form A)					
Ratings	Resistive load: Max. switched power: 48000VA					
	Max. switched current: 100A					
_	Max. switched voltage: 800VAC					
Rated Load						
UL/TUV	55A at 690 VAC, Res., 20k cycles, 85°C, [1] 55A at 690 VAC, Res., 30k cycles, 85°C, [2] 55A at 800 VAC, Res., 1k cycles, 85°C, [1][2] 80A at 277VAC Res., 10k cycles, 85°C, [2] 100A at 480 VAC, Res., 1k cycles, 85°C [1] (T version only) 100A at 690 VAC, Res., 1k cycles, 85°C, [2] (T version only)					
UL (only)	55A at 480 VAC, Res., 50k cycles, 85°C, [1]					
TUV (only)	55A at 480 VAC, Res., 30k cycles, 85°C [1] 30A at 480 VAC, Res., 50k cycles, 85°C [1] 90A at 480 VAC, Res., 1k cycles, 85°C [1]					
Material	Silver Nickel [1], Silver Tin Oxide [2]					
Resistance	$<100m\Omega$ initially (at 6V, 1A, voltage drop method)					
	$<$ 10 m $\Omega$ 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 1,000,000 cycles Min. 55A at 480 50,000 cycels			
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			

#### **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.



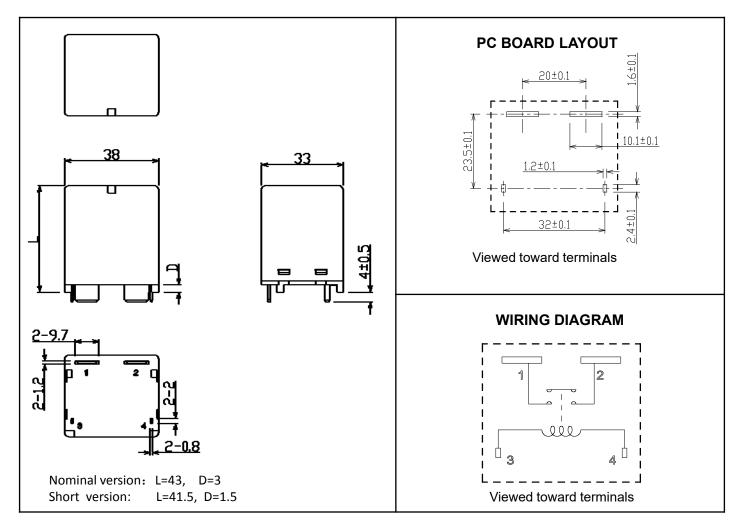
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#### **RELAY ORDERING DATA**

COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Min. holding VDC	Max. Continuous VDC	Coil Resistance Ω±10%	ORDER NUMBER
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

<sup>\*</sup>Add suffix "T" to AZSR190 for high current version. Add suffix "L" for short version (see mechanical data). For Silver Tin Oxide contacts relplace "1A" with "1AE".

#### **MECHANICAL DATA**



Tolerance: ±0.5mm

## ZETTLER