# 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

Arrangement SPST (1 Form A)

## CONTACTS

Ratings

Rated Load UL/TUV

UL (only)

TUV (only)



# **GENERAL DATA**

SPST (1 Form A) Resistive load: Max, switched power: 48000VA	Life Expectancy Mechanical Electrical	Minimum operations 1,000,000 cycles Min. 55A at 480 50,000 cycels	
Max. switched current: 100A	Operate Time(typical) 40 ms Max. at nominal coil voltage		
Max. switched voltage: 800VAC	Release Time(typical)	10 ms Max. at nominal coil voltage (with no coil suppression)	
55A at 690 VAC, Res., 20k cycles, 85℃, [1] 55A at 690 VAC, Res., 30k cycles, 85℃, [2] 55A at 800 VAC, Res., 1k cycles, 85℃, [1][2]	Dielectric Strength (at sea level for 1min.) 5000 Vrms(coil to contacts)		
80A at 277VAC Res., 10k cycles, 85°C, [2]	Surge Voltage	10KV @1.2/50µs (coil to contacts)	
(T version only)	Insulation Resistance	stance 1,000MΩ min. at 20°C 500VDC 50% RH	
100A at 690 VAC, Res., 1k cycles, 85°C, [2] (T version only)	Holding voltage	Greater than 40% of nominal coil voltage	
55A at 480 VAC, Res., 50k cycles, 85°C, [1]	Dropout	Greater than 10% of nominal coil voltage	
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]	Ambient Temperature Operating Storage	At rated coil voltage -40°C(-40F )to 85°C(185°F) -40°C(-40F )to 105°C(221°F)	
Silver Nickel [1] Silver Tin Ovide [2]	Vibration	1.5mm DA at 10-55 Hz	
Silver Nicker [1], Silver Till Oxide [2]	Shock	10g	
method)	Enclosure	P.B.T, Polyester	
$<$ 10 m $\Omega$ initially (at 10A, voltage drop method)	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.

### COIL

Material

Resistance

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



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#### **RELAY ORDERING DATA**

COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Min. holding VDC	Max. Continuous VDC	Coil Resistance $\Omega \pm 10\%$	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

\*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



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