

AZ943T

20 AMP SUBMINIATURE PC BOARD RELAY

FEATURES

- 20A switching capability
- Flux tight and sealed versions available
- Double and single pin terminal available
- Class B insulation (130°C) standard
- Class F insulation (155°C) available
- UL, CUR E44211



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Form A and C Max. switched power: 4700VA Max. switched current: 20A (Form A), 17A (Form C) Max. switched voltage: 400VAC
UL/CUR	Normally Open 20 A at 125 VAC, Resistive, 50k cycles at 40°C 10 A at 277 VAC, Resistive, 200k cycles at 105°C TV-8 125 VAC, Tungsten, 25k cycles at 40°C(AgSnO ₂) 1HP at 250 VAC (AgSnO ₂) 1/2 HP at 125 VAC (AgSnO ₂) Long Endurance Type 17A at 277 VAC, Res, 100k cycles at 105°C (AgNi) Normally Closed 20 A at 125 VAC, Resistive, 6k cycles at 40°C (N.C.) 10 A at 277 VAC, Resistive, 50k cycles at 85°C (N.C.)
Material	Silver tin oxide; Silver Nickel;gold plating available
Resistance	< 100 milliohms initially (24 V, 1 A method)

GENERAL DATA

Life Expectancy Mechanical Electrical	1 x 10 ⁷ 1 x 10 ⁵ Form A, 5 x 10 ⁴ Form C
Operate Time	10 ms max.
Release Time	5 ms max. (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	2500 VAC contact to coil 1000 VAC across contacts
Insulation Resistance	1000 megohms min. at 500 VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -40°C(-40°F) to 85°C(185°F) Class B -40°C(-40°F) to 105°C(221°F) Class F -40°C(-40°F) to 155°C(311°F)
Vibration	0.059" DA at 10–55 Hz
Shock(Func./Dest.)	10 g / 100 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	Approx.14 g

COIL

Power At Pickup Voltage Max Continuous Dissipation	203 mW 1.8 W at 20°C (68°F) Class B 2.4 W at 20°C (68°F) Class F
Temperature Rise	32°C (58°F) at nominal coil voltage
Temperature	Max. 130°C (266°F) Class B 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. Unsealed relays should not be dip cleaned.
4. Specifications subject to change without notice.

AMERICAN ZETTLER, INC.

www.azettler.com

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RELAY ORDERING DATA

STANDARD RELAYS				ORDER NUMBER*
COIL SPECIFICATIONS				
Nominal Coil VDC	Must Operate VDC	Max Continuous VDC	Coil Resistance $\pm 10\%$	
3	2.25	3.9	25	AZ943T-1C-3D
5	3.75	6.5	70	AZ943T-1C-5D
6	4.50	7.8	100	AZ943T-1C-6D
9	6.75	11.7	225	AZ943T-1C-9D
12	9.00	15.6	400	AZ943T-1C-12D
18	13.5	23.4	900	AZ943T-1C-18D
24	18.0	31.2	1,600	AZ943T-1C-24D
48	36.0	62.4	6,400	AZ943T-1C-48D

*Substitute "1C" for "1A" for Form A contacts. Add suffix "E" after "1C" for silver tin oxide contacts. Add suffix "P" for double pin version. Add suffix "Q" for Long Endurance Type(AgNi Only). Add suffix "E" for epoxy sealed version. Add suffix "F" for Class F insulation system. Add suffix "G" for gold plated contacts.

MECHANICAL DATA

Single Pin

Outline Dimensions

1 Form A

1 Form C

(Viewed from Terminals)

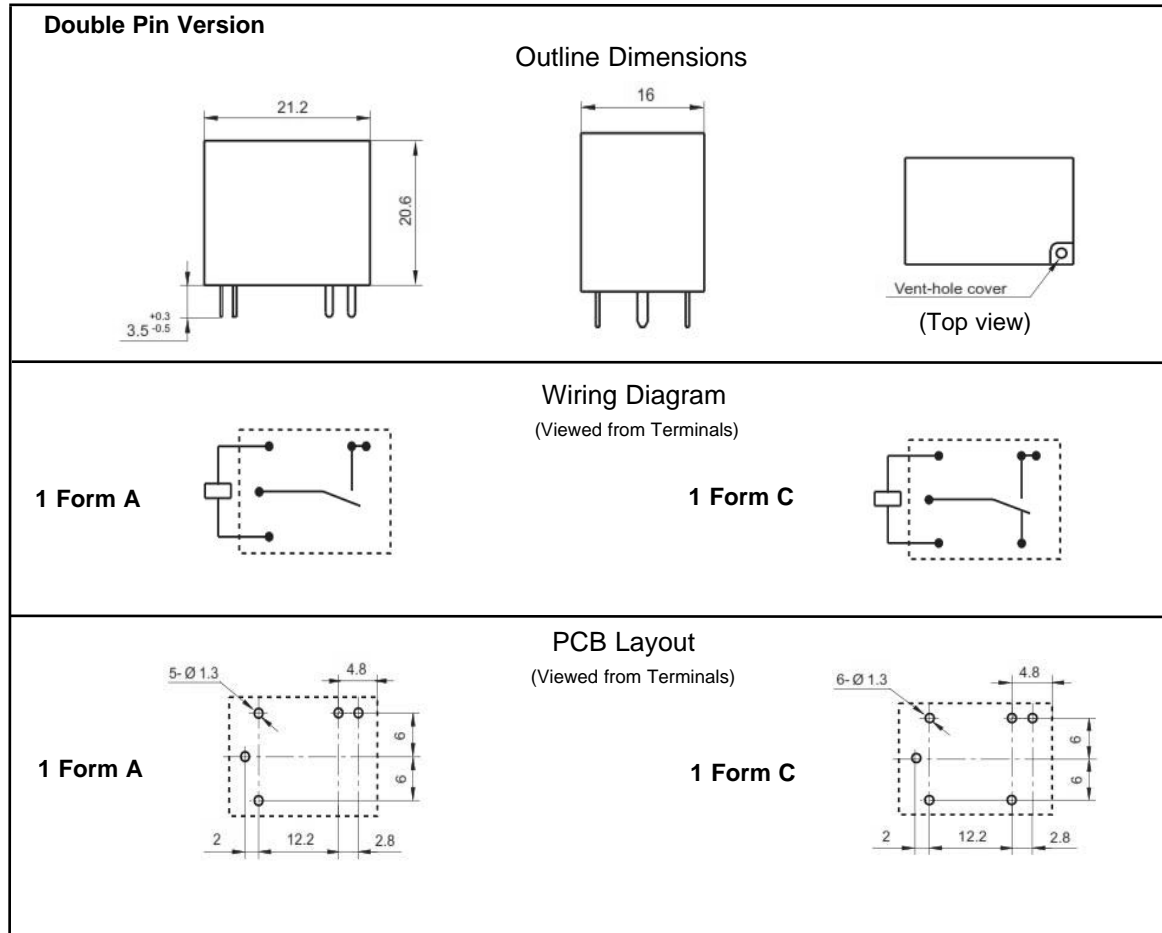
1 Form A

1 Form C

(Viewed from Terminals)

If no tolerance is shown, dimension ≤ 1 mm tolerance is ± 0.2 mm; dimension > 1 mm and ≤ 5 mm tolerance is ± 0.3 mm; dimension > 5 mm tolerance is ± 0.4 mm

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If no tolerance is shown, dimension $\leq 1\text{mm}$ tolerance is $\pm 0.2\text{mm}$; dimension $> 1\text{mm}$ and $\leq 5\text{mm}$ tolerance is $\pm 0.3\text{mm}$; dimension $> 5\text{mm}$ tolerance is $\pm 0.4\text{mm}$



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