

15 AMP MINIATURE PC BOARD RELAY

FEATURES

- High performance
- Low seated height
- Flux tight and sealed versions available
- Class F insulation (155°C) available
- UL, CUR file E43203
- TÜV file R50161256



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 300 W or 2770 VA Max. switched current: 15 A (AC), 10 A (DC) Max. switched voltage: 30 VDC or 300 VAC
Rated Load UL	10 A at 277 VAC, general use, 70°C, 100k cycles 10 A at 30 VDC, resistive, 70°C (N.O.) 1.5 HP at 125 VAC, 70°C, 6k cycles (N.O.) SPST (1 Form A) 15 A at 125 VAC, general use, 70°C, 6k cycles 12 A at 120 VAC, resistive, 70°C, 6k cycles 8 A at 125 VAC, tungsten, 70°C SPDT (1 Form C) 10 A at 120 VAC, resistive, 70°C, 100k cycles (N.O.) 10 A at 120 VAC, resistive, 70°C, 6k cycles (N.C.) 7 A at 30 VDC, resistive, 70°C (N.C.)
TÜV	12 A at 125 VAC, resistive, 85°C, 10k cycles 10 A at 277 VAC, resistive, 85°C, 10k cycles 5 A at 250 VAC, resistive, 85°C, 25k cycles SPST (1 Form A) 10 A at 277 VAC, resistive, 85°C, 25k cycles
Material	Silver tin oxide
Resistance	< 100 milliohms initially (at 24 V, 1 A, voltage drop method)

COIL

Power	
At Pickup Voltage	203 mW
Max Continuous Dissipation	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

GENERAL DATA

Life Expectancy Mechanical	1 x 10 ⁶
	1 x 10 ⁵ at 10A 277 VAC Res.
Operate Time	10 ms max.
Release Time	5 ms max. (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	1500 Vrms contact to coil 1000 Vrms across contacts
Insulation Resistance	100 megohms min. at 500 VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating	At nominal coil voltage -40°C(-40°F) to 70°C(158°F) class B -40°C(-40°F) to 85°C(185°F) class F
Vibration	0.062" (1.5 mm) 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
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	10 g
Packing unit in pcs	20 per plastic tube / 1000 per carton box

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.

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This product specification to be used only together with the application notes
which can be downloaded from <http://www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf>

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AZ943

RELAY ORDERING DATA

STANDARD RELAYS				ORDER NUMBER*	
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	Unsealed	Sealed
5	3.8	11.2	70	AZ943-1CH-5D	AZ943-1CH-5DE
6	4.5	13.4	100	AZ943-1CH-6D	AZ943-1CH-6DE
9	6.8	20.1	225	AZ943-1CH-9D	AZ943-1CH-9DE
12	9.0	26.8	400	AZ943-1CH-12D	AZ943-1CH-12DE
18	13.5	40.2	900	AZ943-1CH-18D	AZ943-1CH-18DE
24	18.0	53.4	1,600	AZ943-1CH-24D	AZ943-1CH-24DE
36	27.0	80.1	3,600	AZ943-1CH-36D	AZ943-1CH-36DE
48	36.0	107.3	6,400	AZ943-1CH-48D	AZ943-1CH-48DE

*Substitute "1AH" in place of "1CH" to indicate 1 Form A contact. To indicate Class F version, add suffix "F".

MECHANICAL DATA

	PC BOARD LAYOUT		VIEWED TOWARDS TERMINALS
	5 x $\varnothing .051$ [$\varnothing 1.3$]	.134 [3.4]	
WIRING DIAGRAMS		VIEWED TOWARDS TERMINALS	
FORM "A"		FORM "C"	

Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010"$

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