AZ970/AZ971_

45 AMP AUTOMOTIVE RELAY

FEATURES

- Up to 45 Amp switching capability in a compact size
- Open, covered or sealed
- Coils to 24 VDC
- Small footprint
- 1 Form A, B and C contacts available
- Vibration and shock resistant
- QS9000, ISO9001, ISO14001
- Cost effective
- · Designed for high in-rush applications



Arrangement	SPST (1 Form A) SPST (1 Form B) SPDT (1 Form C)					
Ratings	Resistive load:					
	Max. switched power: Form A: 630 W Form B: 420 W Form C: 420W					
	Max. switched current: Form A: 45 A Form B: 30 A Form C: 30A					
	Max. switched voltage: 75* VDC					
	* If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.					
Material	Silver tin oxide					
Resistance	< 100 milliohms initially (24 V, 1 A voltage drop method)					

COIL

Power	
At Pickup Voltage (typical)	514 mW (12 and 24 VDC coil) 573 mW (6 VDC coil)
Max. Continuous Dissipation	5.3 W 20°C (68°F) ambient (AZ970) 4.6 W 20°C (68°F) ambient (AZ971)
Temperature Rise	56°C (101°F) nominal coil VDC (AZ970) 59°C (106°F) nominal coil VDC (AZ971)
Max. Temperature	155°C (311°F)





GENERAL DATA

Minimum operations 1 x 10 ⁷ operations 1 x 10 ⁵ 40 A 14 VDC Res.			
5 ms at nominal coil voltage			
3 ms at nominal coil voltage (with no coil suppression)			
500 VDC coil to contact 500 VDC between open contacts			
100 megohms min. at 20°C, 500 VDC, 50% RH			
Greater than 6% of nominal coil voltage			
At nominal coil voltage			
-40°C (-40°F) to 125°C (257°F) -40°C (-40°F) to 155°C (311°F)			
-40°C (-40°F) to 125°C (257°F) -40°C (-40°F) to 155°C (311°F)			
0.062" DA at 10-55 Hz			
10 g			
P.B.T. polyester			
Tinned copper alloy, P.C.			
270°C (518°F)			
5 seconds			
80°C (176°F)			
30 seconds			
20 grams			

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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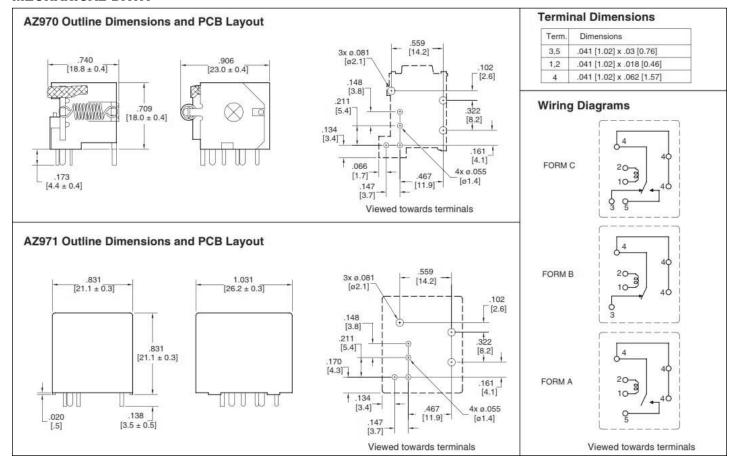
RELAY ORDERING DATA - AZ970 - Open Style

COIL SPECIFICATIONS				ORDER NUMBER		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohms ±10%	Form A (SPST)	Form B (SPST)	Form C (SPDT)
6	4.2	9.8	19.0	AZ970-1A-6D	AZ970-1B-6D	AZ970-1C-6D
9	6.3	15.9	50.0	AZ970-1A-9D	AZ970-1B-9D	AZ970-1C-9D
12	8.4	21.3	90.0	AZ970-1A-12D	AZ970-1B-12D	AZ970-1C-12D
24	16.8	42.7	362.0	AZ970-1A-24D	AZ970-1B-24D	AZ970-1C-24D

RELAY ORDERING DATA — AZ971 — With Dust Cover									
COIL SPECIFICATIONS			ORDER NUMBER*						
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohms ±10%	Form A (SPST)	Form B (SPST)	Form C (SPDT)			
6	4.2	9.4	19.0	AZ971–1A–6D	AZ971–1B–6D	AZ971-1C-6D			
9	6.3	15.2	50.0	AZ971-1A-9D	AZ971-1B-9D	AZ971-1C-9D			
12	8.4	20.4	90.0	AZ971-1A-12D	AZ971-1B-12D	AZ971-1C-12D			
24	16.8	41.0	362.0	AZ971–1A–24D	AZ971-1B-24D	AZ971-1C-24D			

^{*}Add suffix "E" for epoxy sealed version.

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: ±0.010"

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