AZ9701/AZ9711 $_{oldsymbol{-}}$

45 AMP AUTOMOTIVE RELAY

FEATURES

- Up to 45 Amp switching capability in a compact size
- Epoxy sealed versions available
- Coils to 24 VDC
- Small footprint
- 1 Form A and C contacts available
- · Vibration and shock resistant
- ISO/TS 16949, ISO9001, ISO14000
- Tested in accordance with SAE J2544
- Cost effective
- Designed for high in-rush applications



Arrangement	SPST (1 Form A) SPDT (1 Form C)						
Ratings	Resistive load:						
	Max. switched power: Form A: 630 W Form C: 630 W/420W N.O./N.C.						
	Max. switched current: Form A: 45 A Form C: 45 A/30A N.O./N.C.						
	Max. switched voltage: 150* VDC						
	Max. carry current: 60 A						
	* If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.						
Material	Silver nickel						
Resistance	< 100 milliohms initially (24 V, 1 A voltage drop method)						

COIL

Power	
At Pickup Voltage (typical)	484-573 mW standard coil 675 mW sensitive coil
Max. Continuous Dissipation	4.2W 20°C (68°F) ambient
Temperature Rise	50°C (90°F) nominal coil VDC
Max. Temperature	155°C (311°F)

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.



GENERAL DATA

GENERAL DATA					
Life Expectancy Mechanical Electrical	Minimum operations 5 x 10 ⁶ operations 1 x 10 ⁵ 40 A 14 VDC Res.				
Operate Time (typical)	5 ms at nominal coil voltage				
Release Time (typical)	3 ms at nominal coil voltage (with no coil suppression)				
Dielectric Strength (at sea level for 1 min.)	500 VDC coil to contact 500 VDC between open contacts				
Insulation Resistance	100 megohms min. at 20°C (68°F), 500 VDC, 50% RH				
Dropout	Greater than 6% of nominal coil voltage				
Ambient Temperature Operating Storage Vibration	At nominal coil voltage -40°C (-40°F) to 135°C (275°F) -40°C (-40°F) to 155°C (311°F)) 10-40 Hz – 1.27 mm DA				
	40-70 Hz – 50 m/s ² 70-100 HZ – 0.5 mm DA 100-500 Hz – 100 m/s ²				
Shock	20 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	20 grams				



AZ9701/AZ9711 _

RELAY ORDERING DATA - STANDARD COIL

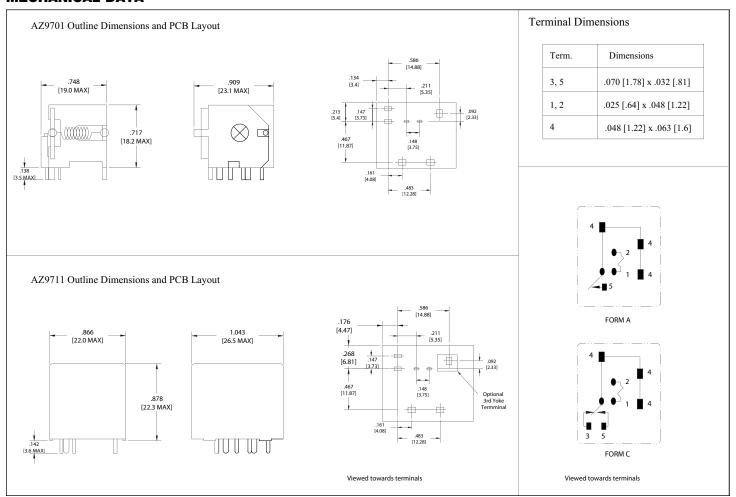
COIL SPECIFICATIONS			ORDER NUMBER				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC Coil Resistance		Open		Seale	ed*
6	3.3	9.0	19.0	AZ9701-1A-6D	AZ9701-1C-6D	AZ9711-1A-6DE	AZ9711-1C-6DE
12	6.8	19.6	90.0	AZ9701-1A-12D	AZ9701-1C-12D	AZ9711-1A-12DE	AZ9711-1C-12DE
24	13.9	39.3	362.0	AZ9701-1A-24D	AZ9701-1C-24D	AZ9711-1A-24DE	AZ9711-1C-24DE

RELAY ORDERING DATA — SENSITIVE COIL

COIL SPECIFICATIONS			ORDER NUMBER				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ±10%	Open		Sealed*	
6	4.5	11.3	30.0	AZ9701-1A-6DS	AZ9701-1C-6DS	AZ9711-1A-6DSE	AZ9711-1C-6DSE
12	9.0	22.6	120.0	AZ9701-1A-12DS	AZ9701-1C-12DS	AZ9711-1A-12DSE	AZ9711-1C-12DSE
24	19.2	45.2	480.0	AZ9701-1A-24DS	AZ9701-1C-24DS	AZ9711-1A-24DSE	AZ9711-1C-24DSE

^{*}Add suffix "K" to add third yoke pin.

MECHANICAL DATA



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



AMERICAN ZETTLER, INC.