AZ9731T5_

50 AMP MINI-ISO AUTOMOTIVE RELAY

FEATURES

- Quick connect terminals
- 50 Amp contact rating
- High operating temperature (125°C)
- Epoxy sealed versions available
- Plastic or steel mounting bracket available
- Resistor or diode parallel to coil available
- · Suitable for automobile and lamp accessory applications



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 50 A, 14VDC Res.		
Operate Time (max.)	10 ms at nominal coil voltage		
Release Time (max.)	10 ms at nominal coil voltage		
Dielectric Strength (at sea level for 1 min.)	50~60Hz AC500V 1min coil to contact 50~60Hz AC500V 1min contact to contact		
Insulation Resistance	100 megohms min. at 500 VDC, 20°C 50% RH		
Dropout	Greater than 10% of nominal coil voltage		
Ambient Temperature Operating	-40°C (-40°F) to 125°C (257°F)		
Vibration	5~22.30Hz double amplitude 10mm 22.3~500Hz 98m/s2		
Shock	294m/s2		
Enclosure	P.B.T. polyester		
Terminals	Tinned copper alloy 0.25 Quick Connect Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.		
Weight	35 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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CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)			
Ratings	Resistive load: Max. switched power: 700W			
	Max. switched current: 50 A (N.O.) 30 A (N.C.)			
	Max. switched voltage: 75 VDC			
	1 Form A : 50A at 14VDC 20A at 28VDC 1 Form C : 50A/30A at 14VDC (N.O./N.C.) 20A/15A at 28VDC (N.O./N.C.)			
Material	Silver tin oxide			
Resistance	< 100 milliohms initially (6 V, 1 A voltage drop method)			

COIL

Power		
At Pickup Voltage (typical)	0.68 W	
Max. Continuous Dissipation	4.8 W at 20°C (68°F)	
Temperature Rise	75°C (135°F) at nominal coil voltage (40A)	
Temperature	Max. 125°C (257°F)	

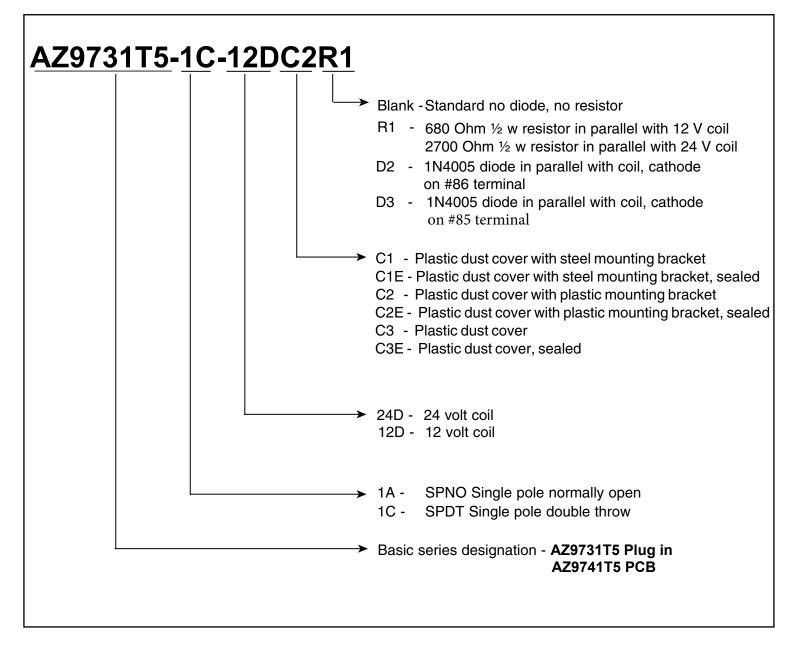
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RELAY ORDERING DATA

COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%		
12	7.8	15.6	90		
24	15.6	31.2	360		

RELAY ORDERING DATA



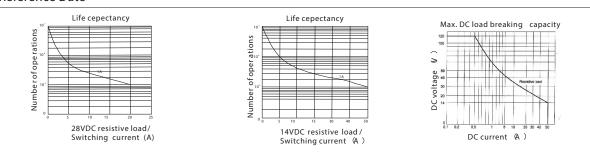
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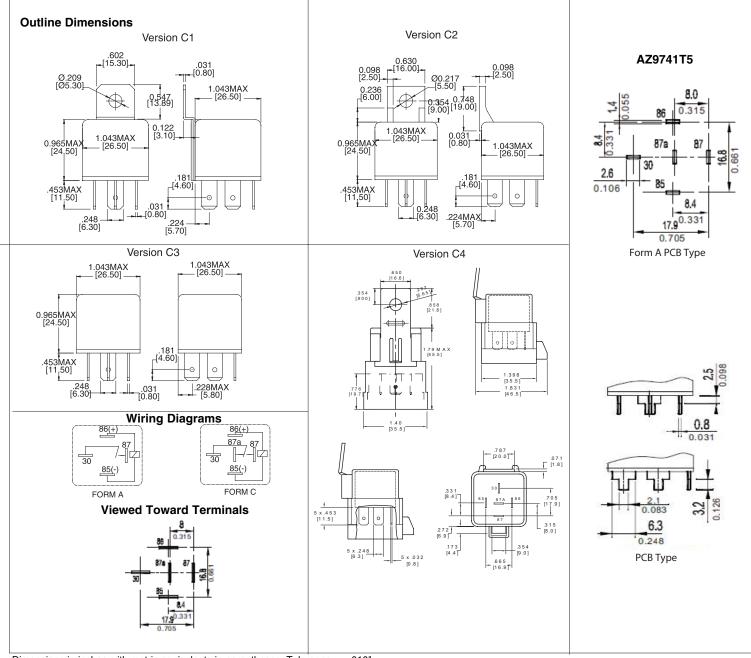
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MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.