AZ9891_

30 AMP SUB-MICRO AUTOMOTIVE RELAY

FEATURES

- Up to 30 Amp switching capability in a very compact size
- Vibration and shock resistant
- Designed for power windows, door locks and wiper motors, seat adjusters, and more
- Epoxy sealed for automatic wave soldering
- ISO/TS 16949, ISO9001, ISO14000
- Tested in accordance with SAE J2544
- Cost effective
- Single and Dual (Twin) relay versions



CONTACTS

Arrangement	SPDT (1 Form C) DPDT (2 Form C) (Twin)			
Ratings	Max. switched power: 480 W Max. switched current: 30 A Max. switched voltage: 16 VDC			
	Rated load: 25 A at 16 VDC, locked motor			
Material	Silver tin oxide			
Resistance	< 25 milliohms initially (6 V, 1 A voltage drop method)			

COIL

Power			
At Pickup Voltage (typical)	230 mW		
Max. Continuous Dissipation	2.2 W at 20°C (68°F) ambient		
Temperature Rise	40°C (72°F) at nominal coil voltage		
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

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁶ 1 x 10 ⁵ at 25 A 14 VDC locked motor		
Operate Time	10 ms typical at nominal coil voltage		
Release Time	5 ms typical at nominal coil voltage		
Dielectric Strength (at sea level for 1 min.)	500 VAC coil to contact 500 VAC between open contacts		
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC 85% RH (at 40°C)		
Dropout	Greater than 8.3% of nominal coil voltage		
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 105°C (221°F) -40°C (-40°F) to 155°C (311°F)		
Vibration	4.5g at 10-500 Hz		
Shock	10g operational, 100g destructive		
Enclosure	P.B.T. polyester		
Terminals	Tinned copper alloy, P.C.		
Max. Solder Temp	270°C (518°F)		
Max. Solder Time	3 seconds		
Max. Solvent Temp	80°C (176°F)		
Max. Immersion Time	30 Seconds		
Weight	4.1 grams		

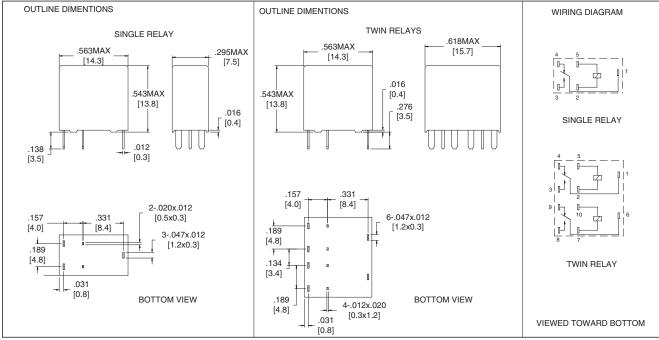
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RELAY ORDERING DATA

STANDARD RELAYS - 1 Form C							
COIL SPECIFICATIONS ORDER NUMBER							
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	1 Form C (SPDT)			
12	6.5	18.0	180	AZ9891-1C-12DE			
12	7.2	20.0	225	AZ9891-1C-12DSE			

STANDARD RELAYS - 2 Form C							
	ORDER NUMBER						
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	2 Form C (DPDT)			
12	6.5	18.0	180	AZ9891-2C-12DE			
12	7.2	20.0	225	AZ9891-2C-12DSE			

MECHANICAL DATA



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