# 80 AMP AUTOMOTIVE RELAY

## **FEATURES**

- 80 Amp contact rating
- High momentary carry current
- High operating temperature (85°C)
- SPST N.O. (1 Form A), SPDT (1 Form C), SPST N.C. (1 Form B)
- · Quick connect terminals
- Epoxy sealed version available



#### **CONTACTS**

Arrangement	SPST (N.O.) (1 Form A) SPDT (1 Form C), SPST (N.C.) (1 Form B)			
Ratings	Resistive load:			
	Max. switched power: 1120 W (SPST) Form A 840 W (N.O.) Form C 840 W (N.C.) Form C, Form B			
	Max. switched current: 80 A (SPST) Form A 60 A (N.O.) Form C 60 A (N.C.) Form C, Form B			
	Max. switched voltage: 30 VDC			
Material	Silver tin oxide			
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)			

## COIL

Power			
At Pickup Voltage (typical)	0.76 W		
Max. Continuous Dissipation	3.0 W at 20°C (68°F)		
Temperature Rise	56°C (101°F) at nominal coil voltage		
Temperature	Max.155°C (311°F)		

# **GENERAL DATA**

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 80 A 14 VDC Res.		
Operate Time (typical)	7 ms at nominal coil voltage		
Release Time (typical)	5 ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength (at sea level for 1 min.)	500 Vrms coil to contact 500 Vrms 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 Storage	-40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)		
Vibration	0.062" (1.5 mm) DA at 10-55 Hz		
Shock	10 g		
Enclosure	P.B.T. polyester		
Terminals	Copper alloy Quick Connect Note: Allow suitable slack on leads when wiring and do not subject the terminals to excessive force.		
Weight	46 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**

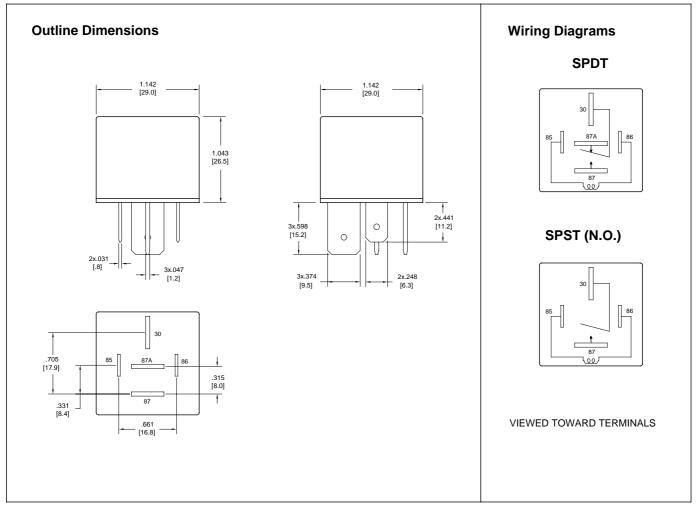
COIL SPECIFICATIONS			ORDER NUMBER*		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	SPST	SPDT
6	3.9	7.8	20	AZ980-1A-6D	AZ980-1C-6D
12	7.8	15.6	80	AZ980-1A-12D	AZ980-1C-12D
24	15.6	31.2	320	AZ980-1A-24D	AZ980-1C-24D

<sup>\*</sup> For SPST (N.C.) (1 Form B) relay, substitue "1B" for "1A"

Add suffix "D" for diode across coil option (+ pole at terminal #86).

Add suffix "E" for epoxy sealed version.

#### MECHANICAL DATA



Tel. +49 89 800 97 0

Fax +49 89 800 97 200

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

Add suffix "R" for resistor in parallel with coil. Resistor values: 6V: 180  $\Omega$ , 12V: 680  $\Omega$ , 24V: 2700  $\Omega$ .