

# AZ979

## 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

<b>Arrangement</b>	SPST (N.O.) (1 Form A) SPDT (1 Form C), SPST (N.C.) (1 Form B)
<b>Ratings</b>	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
<b>Material</b>	Silver tin oxide
<b>Resistance</b>	< 50 milliohms initially (24 V, 1 A voltage drop method)

### COIL

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

### GENERAL DATA

<b>Life Expectancy</b>	Minimum operations
<b>Mechanical</b>	1 x 10 <sup>7</sup>
<b>Electrical</b>	1 x 10 <sup>5</sup> at 80 A 14 VDC Res.
<b>Operate Time (typical)</b>	7 ms at nominal coil voltage
<b>Release Time (typical)</b>	5 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	500 Vrms coil to contact 500 Vrms contact to contact
<b>Insulation Resistance</b>	100 megohms min. at 500 VDC, 20°C 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature</b>	
<b>Operating</b>	-40°C (-40°F) to 85°C (185°F)
<b>Storage</b>	-40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.062" (1.5 mm) DA at 10-55 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Copper alloy Quick Connect Note: Allow suitable slack on leads when wiring and do not subject the terminals to excessive force.
<b>Weight</b>	48 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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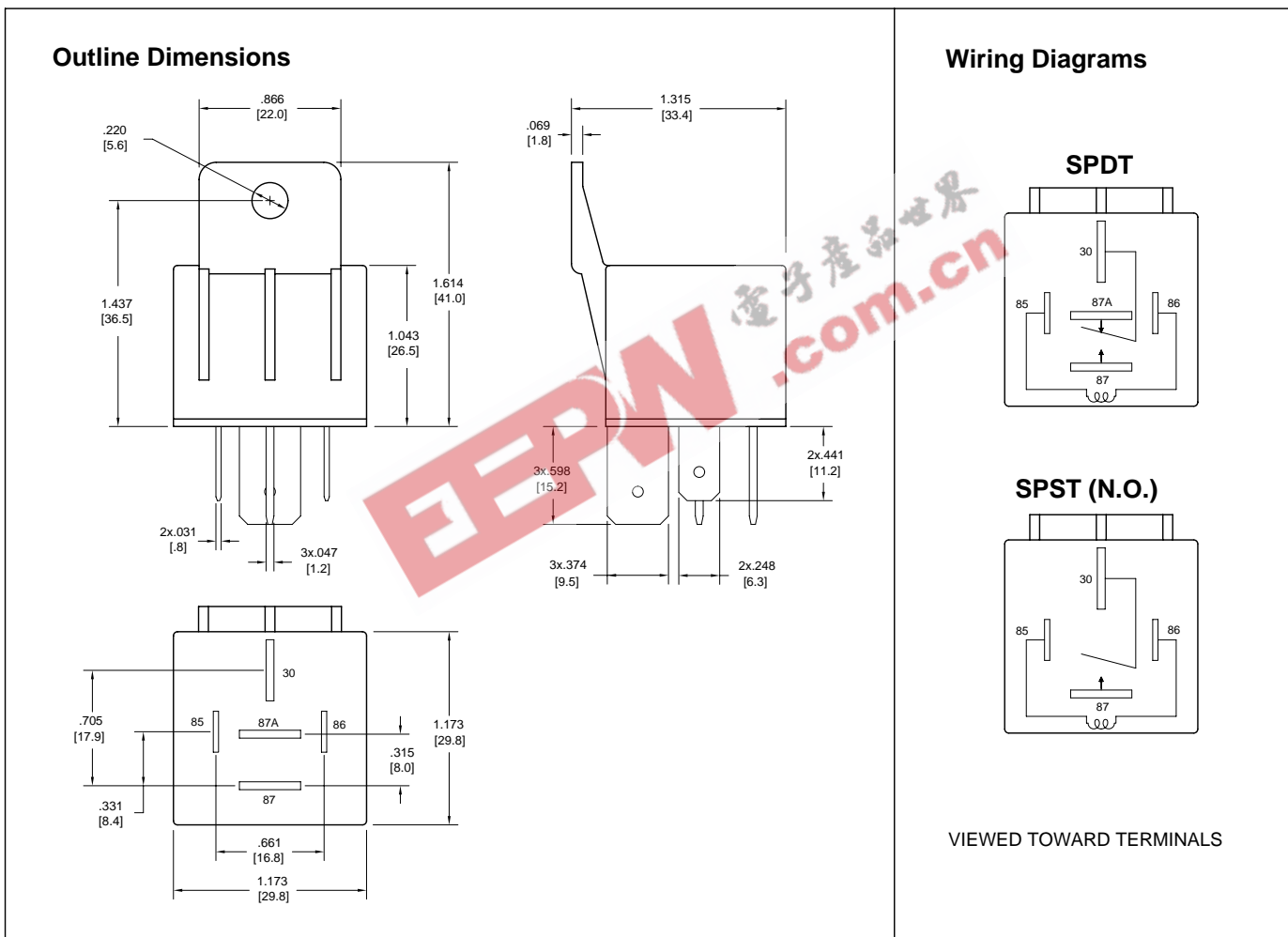
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## RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	SPST	SPDT
6	3.9	7.8	20	AZ979-1A-6D	AZ979-1C-6D
12	7.8	15.6	80	AZ979-1A-12D	AZ979-1C-12D
24	15.6	31.2	320	AZ979-1A-24D	AZ979-1C-24D

\* For SPST (N.C.) (1 Form B) relay, substitute "1B" for "1A".  
 Add suffix "R" for resistor in parallel with coil. Resistor values: 6V: 180  $\Omega$ , 12V: 680  $\Omega$ , 24V: 2700  $\Omega$ .  
 Add suffix "D" for diode across coil option (+ pole at terminal #86).  
 Add suffix "E" for epoxy sealed version.

## MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm .010$ "

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