

# AZ934

## 20 AMP SUB-MINIATURE POWER RELAY FOR AUTOMOTIVE USE

### FEATURES

- Up to 20 Amp switching capability in a compact size
- Sealed
- Two separate relays in DPDT version
- Quiet operation
- Vibration and shock resistant
- Designed for power windows, power seats and wiper applications
- QS-9000 Factory



### CONTACTS

<b>Arrangement</b>	DPDT (2 Form C) SPDT (1 Form C)
<b>Ratings</b>	Max. switched power: 280 W Max. switched voltage: 28 VDC Max. switched current (make/break), continuous: 1 Form C: 25A/20A, 20A 2 Form C: 25A/20A, 20A
<b>Material</b>	Silver tin oxide
<b>Resistance</b>	< 100 milliohms at 1A, 5 VDC

### COIL

<b>Power</b>	
<b>At Pickup Voltage (typical)</b>	203 mW
<b>Max. Continuous Dissipation</b>	1.0 W 20°C (68°F) ambient
<b>Temperature Rise</b>	42°C (76°F) nominal coil VDC
<b>Max. Temperature</b>	155°C (311°F)

### NOTES

1. All values at 20°C (68°F).
2. Maximum make current refers to in-rush current of lamp load.
3. Relay may pull in with less than "Must Operate" value.
4. Specifications subject to change without notice.

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> operations 2 x 10 <sup>5</sup> operations at 20 A 14 VDC Res.
<b>Operate Time (typical)</b>	3 ms at nominal coil voltage
<b>Release Time (typical)</b>	1.5 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength</b> (at sea level for 1 min.)	500 Vrms coil to contact 500 Vrms between open contacts
<b>Insulation Resistance</b>	100 megohms min. at 20°C, 500 VDC, 50% RH
<b>Dropout</b>	> 8.3% of nominal coil voltage
<b>Ambient Temperature Operating</b>	At nominal coil voltage -40°C (-40°F) to 85°C (185°F)
<b>Vibration</b>	0.062" (1.5 mm) DA at 10–55Hz, 10 g at 55-200 Hz
<b>Shock</b>	30 g, 11 ms, functional
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	10 grams

**ZETTLER electronics GmbH** - A ZETTLER GROUP Company

Junkersstr. 3, D-82178 Puchheim, Germany

phone: +49 89 800 97-0 office@ZETTLERelectronics.com

fax: +49 89 800 97-200 www.ZETTLERelectronics.com

This product specification to be used only together with the application notes  
which can be downloaded from <http://www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf>

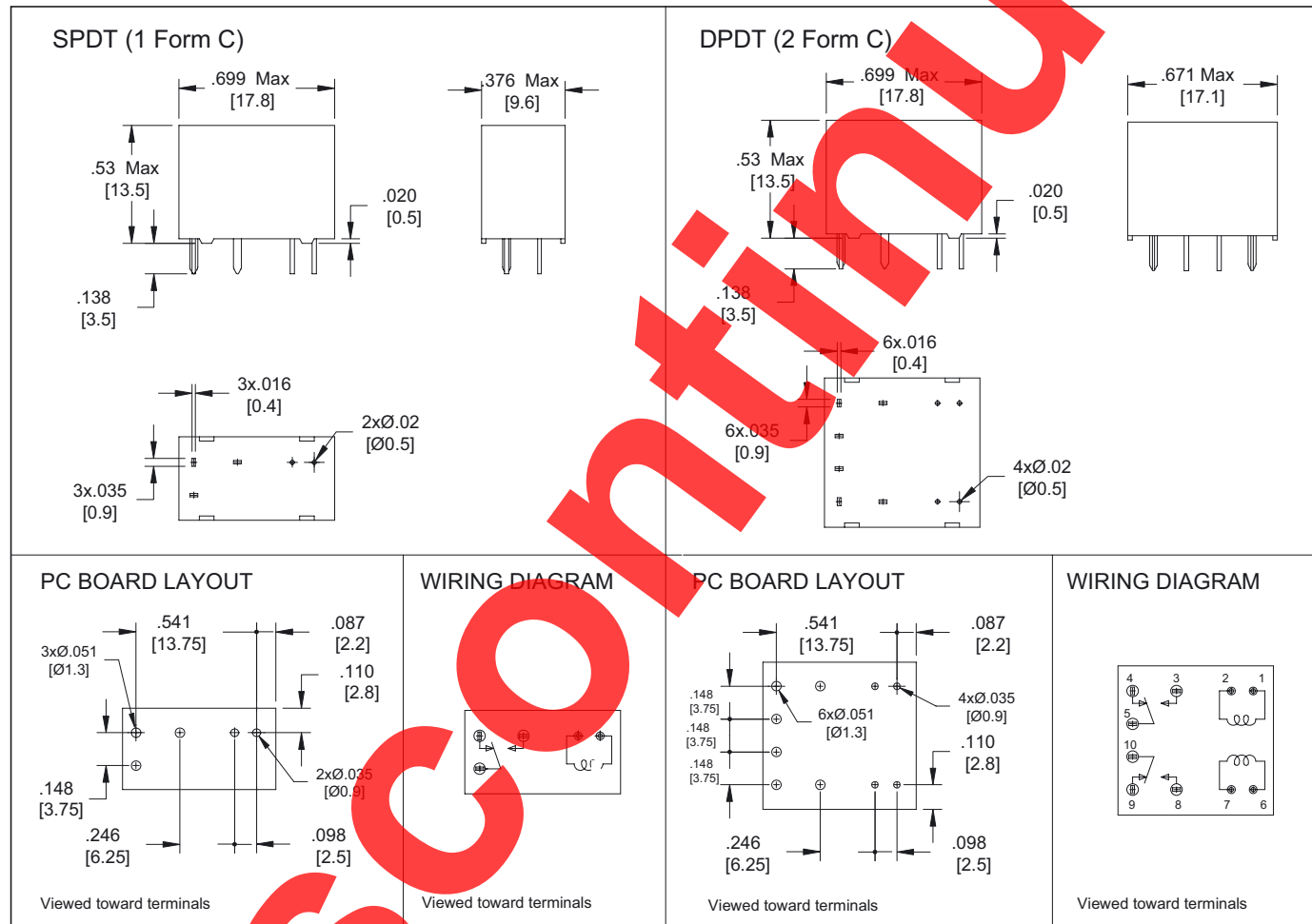
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## RELAY ORDERING DATA

COIL SPECIFICATIONS - DC Coil				ORDER NUMBER	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	1 Form C (SPST)	2 Form C (SPDT)
6	3.6	7.5	64	AZ934-1C-6DET	AZ934-2C-6DET
12	7.2	15.0	255	AZ934-1C-12DET	AZ934-2C-12DET

## MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm 0.010$ "

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