

# AZ9731F

## 30 AMP MINI-ISO AUTOMOTIVE RELAY WITH FUSE



### FEATURES

- Quick connect terminals
- 30 Amp contact rating (30A Fuse)
- Blade fuse design
- Steel mounting bracket
- ISO/TS 16949, ISO14001

### CONTACTS

<b>Arrangement</b>	SPST (1 Form A)
<b>Ratings</b>	Resistive load: Max. switched power: 420 W Max. switched current: 30 A Max. switched voltage: 75 VDC
<b>Material</b>	Silver tin oxide
<b>Resistance</b>	< 50 milliohms initially (24 V, 1 A voltage drop method)

### COIL

<b>Power</b>	
At Pickup Voltage (typical)	760 mW
Max. Continuous Dissipation	3.0 W at 20°C (68°F)
Temperature Rise	70°C (126°F) at nominal coil voltage (30A)
Temperature	Max. 105°C (311°F)

### RELAY ORDERING DATA

COIL SPECIFICATIONS			
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%
6	3.9	7.8	20
12	7.8	15.6	80
24	15.6	31.2	320

### GENERAL DATA

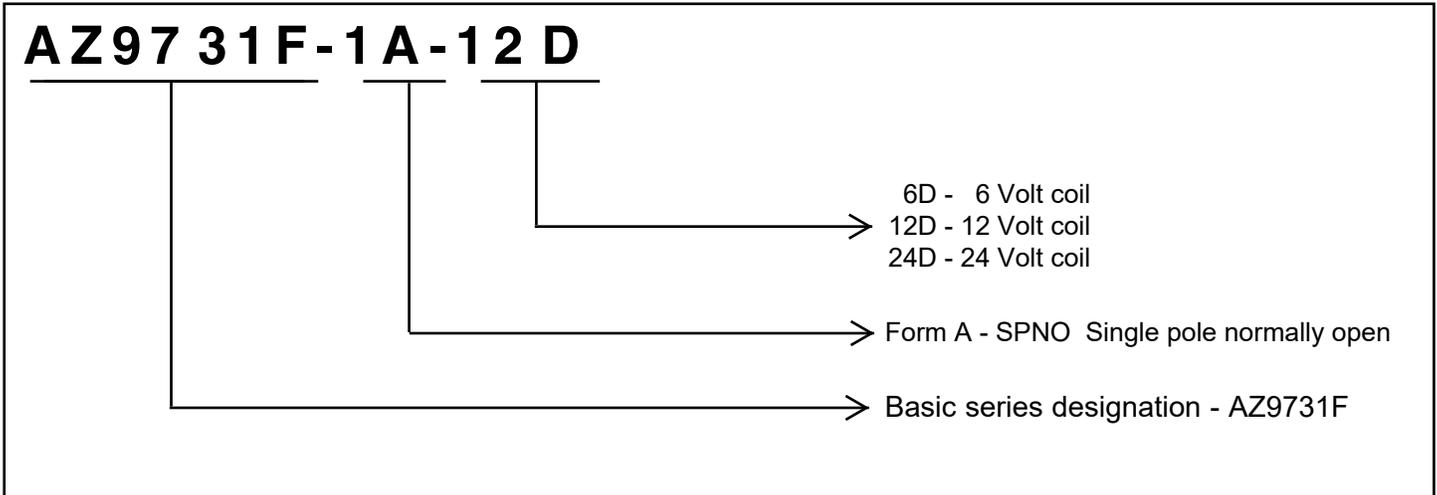
<b>Life Expectancy</b> Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 30 A 14 VDC Res.
<b>Operate Time (max.)</b>	7 ms at nominal coil voltage
<b>Release Time (max.)</b>	5 ms at nominal coil voltage
<b>Dielectric Strength (at sea level for 1 min.)</b>	50Hz 750 Vrms coil to contact 50Hz 500 Vrms contact to contact
<b>Insulation Resistance</b>	100 megohms min. at 500 VDC, 20°C 50% RH
<b>Dropout</b>	Greater than 20% of nominal coil voltage
<b>Ambient Temperature</b> Operating Storage	At nominal coil voltage -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	1.27mm DA at 10-40 Hz
<b>Shock Resistance</b>	147m/s <sup>2</sup> 11ms
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy 0.25 Quick Connect Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
<b>Weight</b>	32 grams

### NOTES

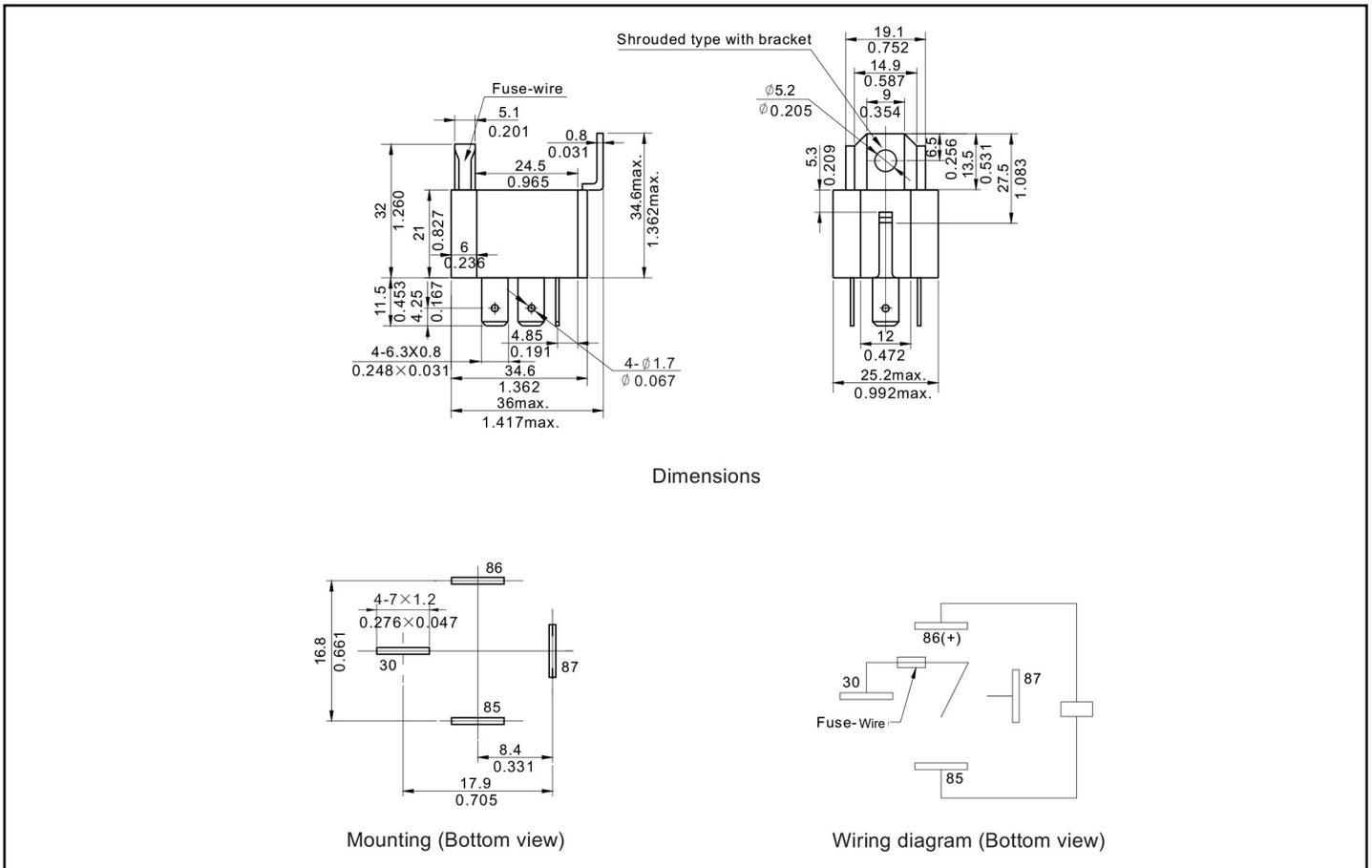
1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.

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## RELAY ORDERING DATA



## MECHANICAL DATA



NOTES: Dimension are in millimeters. Inch equivalents are given for general information only. Tolerance:  $\pm .010$ "

**AMERICAN ZETTLER, INC.**

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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.