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

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

COIL

Power	
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)

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 1 x 10^7 1 x 10^5 at 30 A 14 VDC Res.
Operate Time (max.)	7 ms at nominal coil voltage
Release Time (max.)	5 ms at nominal coil voltage
Dielectric Strength (at sea level for 1 min.)	50Hz 750 Vrms coil to contact 50Hz 500 Vrms contact to contact
Insulation Resistance	100 megohms min. at 500 VDC, 20°C 50% RH
Dropout	Greater than 20% of nominal coil voltage
Ambient Temperature **Operating** **Storage**	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -55°C (-67°F) to 155°C (311°F)
Vibration	1.27mm DA at 10-40 Hz
Shock Resistance	147m/s^2 11ms
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy 0.25 Quick Connect Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
Weight	32 grams

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

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

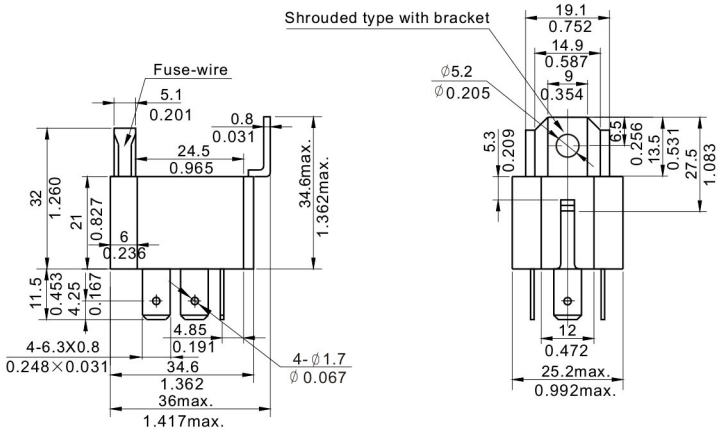
AZ97 31F-1A-12 D

- 6D - 6 Volt coil
- 12D - 12 Volt coil
- 24D - 24 Volt coil

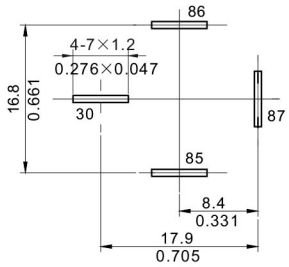
→ Form A - SPNO Single pole normally open

→ Basic series designation - AZ9731F

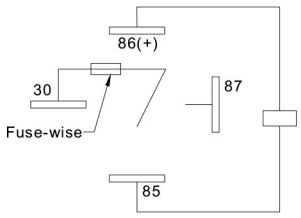
MECHANICAL DATA



Dimensions



Mounting (Bottom view)



Wiring diagram (Bottom view)

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

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