

AZ935

20 AMP SUB-MINIATURE POWER RELAY FOR AUTOMOTIVE USE

FEATURES

- Low cost
- Up to 20 Amp switching capability in a compact size
- Sealed
- Two separate relays in one package
- Vibration and shock resistant
- Designed for power windows, power seats and wiper applications
- Extremely silent operation
- QS-9000 Factory



CONTACTS

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

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ operations 2 x 10 ⁵ operations at 20 A 14 VDC Res.
Operate Time (typical)	3 ms at nominal coil voltage
Release Time (typical)	1.5 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	500 Vrms coil to contact 500 Vrms between open contacts
Insulation Resistance	100 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	> 8.3% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -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 10–55Hz, 10 g at 55-200 Hz
Shock	30 g, 11 ms, functional
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	15 grams

COIL

Power	
At Pickup Voltage (typical)	203 mW
Max. Continuous Dissipation	1.0 W 20°C (68°F) ambient
Temperature Rise	42°C (108°F) nominal coil VDC
Max. Temperature	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.

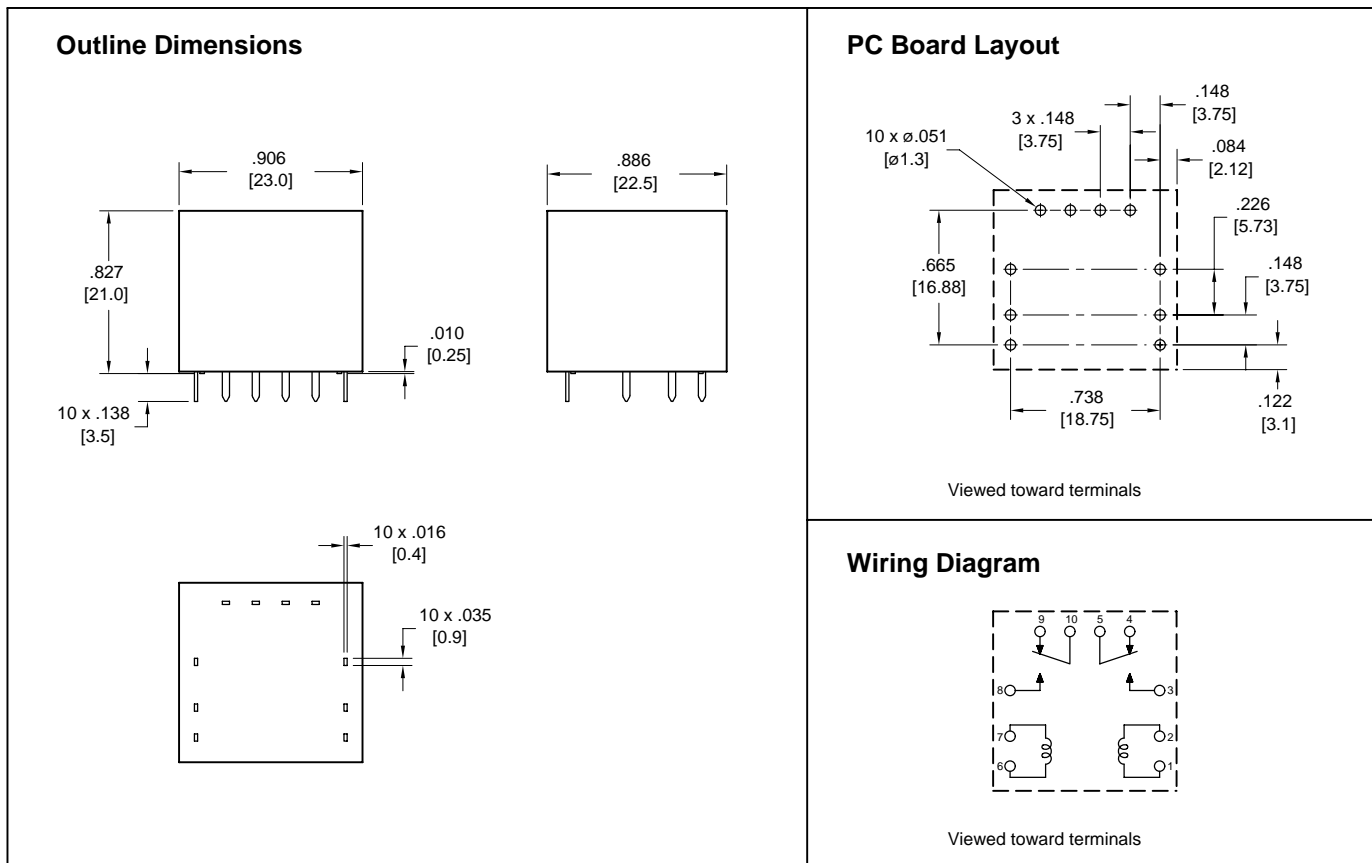
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RELAY ORDERING DATA

COIL SPECIFICATIONS - DC Coil				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	2 Form C (SPDT)
12	7.2	15.0	255	AZ935-2C-12DE

*Add suffix "T" for Silver tin oxide contact material.

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± 0.010 "