AZ9741

40 AMP MINI-ISO AUTOMOTIVE RELAY

FEATURES

- PCB terminals
- 40 Amp contact rating
- High operating temperature (125°C)
- Resistor or diode parallel to coil available
- Epoxy sealed versions available
- SPST (1 Form A), SPDT (1 Form C)
- ISO/TS 16949, ISO14001

CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 630 W (SPST) 630 W (N.O.) 473 W (N.C.) Max. switched current: 40 A (SPST) 40 A (N.O.) 30 A (N.C.) Max. switched voltage: 75 VDC
Material	Silver tin oxide
Resistance	< 100 milliohms initially (6V, 1 A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	0.68 W
Max. Continuous Dissipation	4.8 W at 20°C (68°F)
Temperature Rise	75°C (135°F) at nominal coil voltage
Temperature	Max. 200°C (392°F)

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.

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 1 x 10^7 1 x 10^5 at 40 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.)	500 Vrms coil to contact 500 Vrms contact to contact
Insulation Resistance	100 megohms min. at 500 VDC, 20°C 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature **Operating** **Storage**	 -55°C (-67°F) to 125°C (257°F) -55°C (-67°F) to 200°C (392°F)
Vibration	0.062" DA at 10-40 Hz
Shock	15 g
Enclosure	P.B.T. polyester
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 secomds
Weight	31 grams

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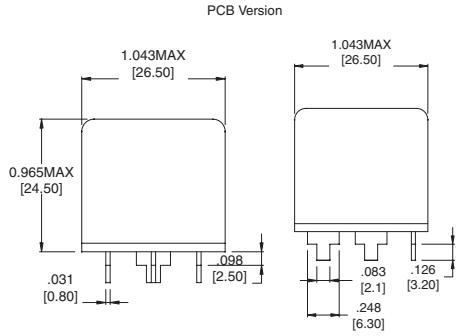
RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	SPST	SPDT
6	3.9	10.1	22.5	AZ9741–1A–6D	AZ9741–1C–6D
12	7.8	20.2	90	AZ9741–1A–12D	AZ9741–1C–12D
24	15.6	40.5	360	AZ9741–1A–24D	AZ9741–1C–24D

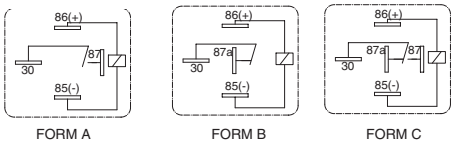
*Add suffix “E” for epoxy sealed version. Add suffix “R” for resistor across coil (6V=180 ohms, 12V=680 ohms, 24V=2700 ohms). Add suffix D2 for diode across coil (anode on #85).

MECHANICAL DATA

Outline Dimensions

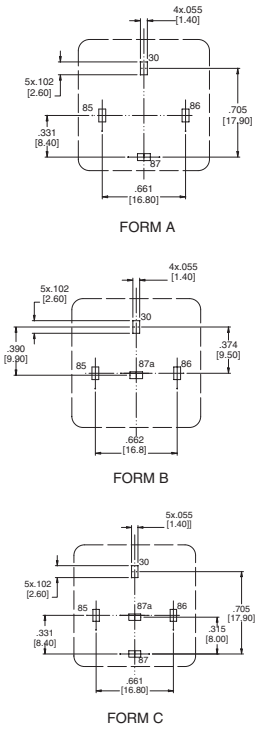


Wiring Diagrams



Viewed Toward Terminals

PC Board Layout



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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