

AZ9733

40 AMP MINI-ISO AUTOMOTIVE RELAY

FEATURES

- AZ9733 Quick connect terminals
- AZ9734 PCB terminals available
- 40 Amp contact rating
- High momentary carry current (60A)
- High operating temperature (125°C)
- Epoxy sealed versions available
- Metal or plastic mounting bracket available
- Resistor or diode parallel to coil available
- ISO/TS 16949, ISO140001



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Max. Ratings	Continuous current: 45A at 23°C (N.C.) 60A at 23°C (N.O.) Switched power: 560W (SPST) 560W (N.O.) 420W (N.C.) Switching Voltage: 75VDC
Contact Ratings	1 form A: 40A at 13.5Vdc, Res. 20A at 27Vdc, Res. 150A make peak inrush, 30A break at 13.5Vdc, Lamp. 80/33A make/break at 13.5Vdc, Ind. 1 form C N.O.: 40A at 13.5Vdc, Res. 20A at 27Vdc, Res. 150A make peak inrush, 30A break at 13.5Vdc, Lamp. 80/33A make/break at 13.5Vdc, Ind. 1 form C N.C.: 30A at 13.5Vdc, Res. 10A at 27Vdc, Res. 40A/20A make/break at 13.5Vdc, Ind.
Material	Silver tin oxide
Resistance	< 100 milliohms initially (6V, 1A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	0.57W
Max. Continuous Dissipation	4.5W at 20°C (68°F)
Temperature Rise	52°C (94°F) at nominal coil voltage
Temperature	Max. 130°C (266°F)

GENERAL DATA

Life Expectancy	Minimum operations
Mechanical	1 x 10 ⁶
Electrical	1 x 10 ⁵
Operate Time (max.)	10ms at nominal coil voltage
Release Time (max.)	10ms at nominal coil voltage
Dielectric Strength (at sea level for 1 min.)	500Vrms coil to contact 500Vrms contact to contact
Insulation Resistance	100 megohms min. at 500VDC, 20°C 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature	
Operating	-40°C (-47°F) to 130°C (266°F)
Storage	-40°C (-47°F) to 130°C (266°F)
Vibration	0.393" DA at 5-22.3 Hz
Shock	294 m/s ²
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy PCB, and 0.25 Quick Connect Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
Weight	Approx. 35 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

COIL SPECIFICATIONS			
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%
12	7.2	20.2	90
24	16	40.5	320

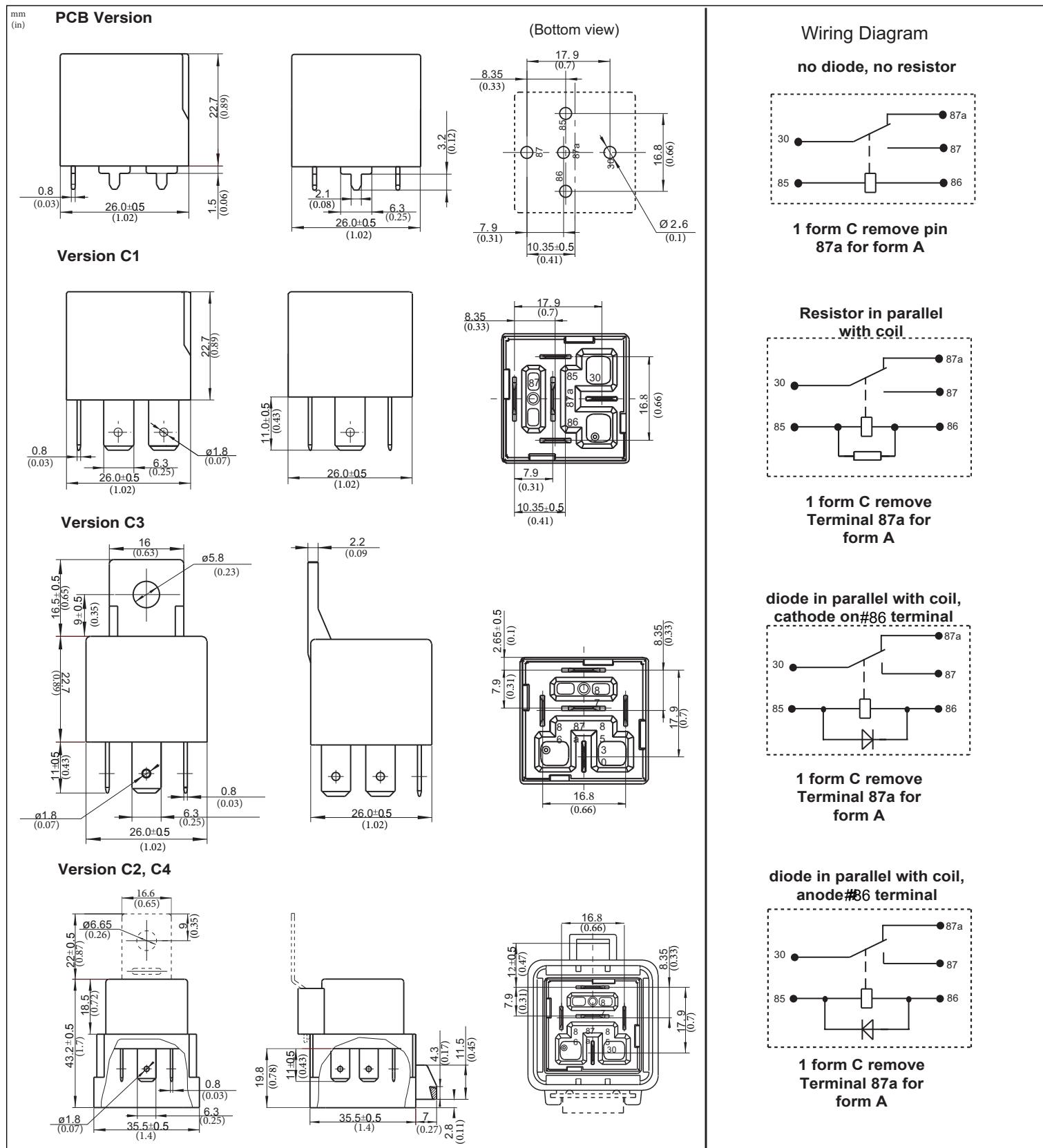
RELAY ORDERING DATA

AZ973X-1C-12DC2ER1

- Blank - Standard no diode, no resistor
- R1 - 680 Ohm, resistor in parallel with 12 V coil
2700 Ohm resistor in parallel with 24 V coil
- R2 - 560 Ohm, resistor in parallel with 12 V coil
1200 Ohm, resistor in parallel with 24 V coil
- D1 - 1N4007 diode in parallel with coil, anode on #86 terminal
- D2 - 1N4007 diode in parallel with coil, cathode on #86 terminal
- Blank - Plastic dust cover
- E - sealed
- C1 - QC Plastic dust cover
- C2 - QC Plastic dust cover, shrouded
- C3 - QC Plastic dust cover, with plastic bracket
- C4 - QC Plastic dust cover, shrouded, with metal bracket
- 24D - 24 volt coil
- 12D - 12 volt coil
- 1A - SPNO Single pole normally open
- 1C - SPDT Single pole double throw
- Basic series designation QC- AZ9733
- Basic series designation PCB- AZ9734

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MECHANICAL DATA

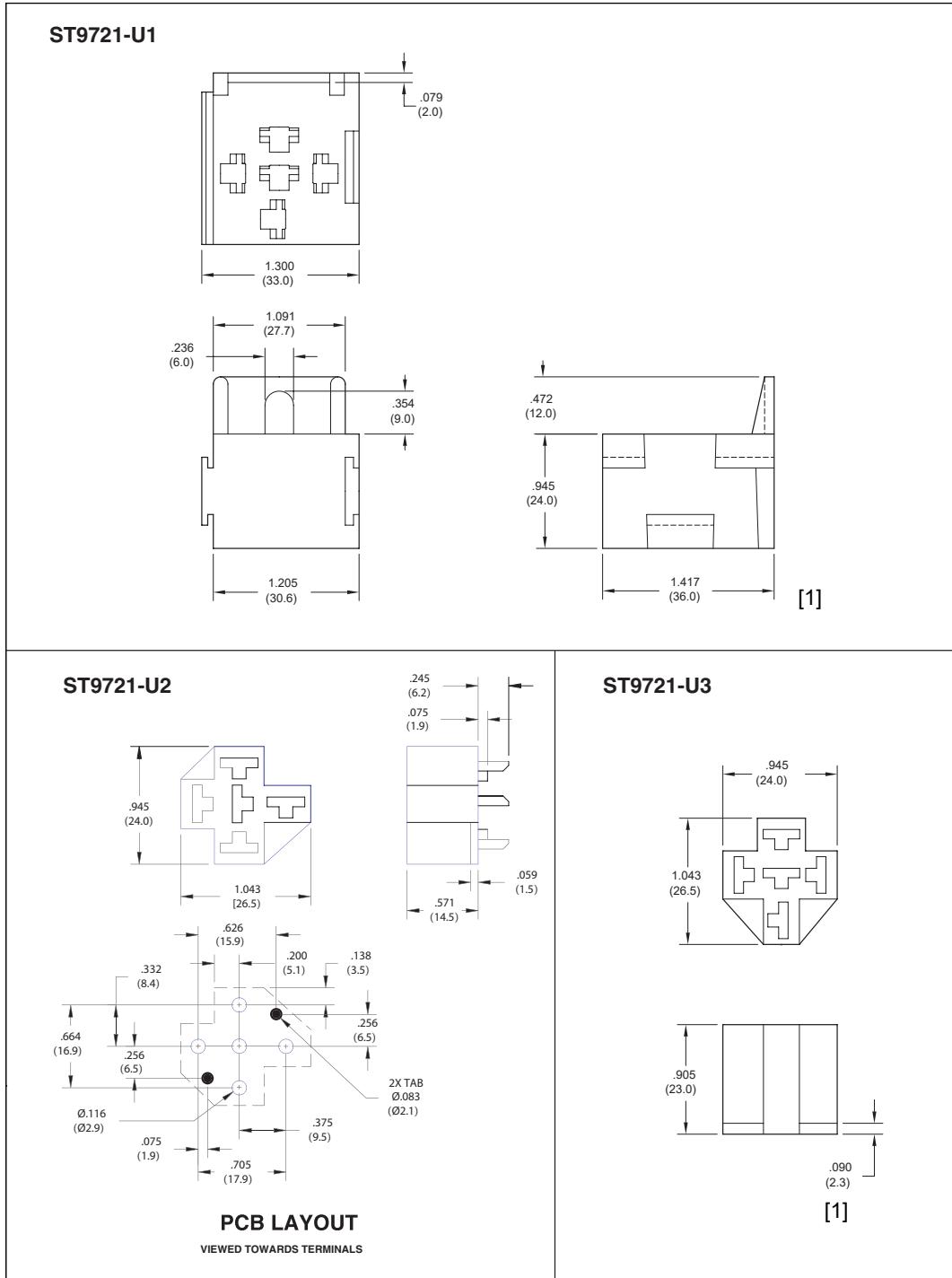


Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010"$

AMERICAN ZETTLER, INC.

4/30/21

Sockets & Hardware



[1] Recommended receptical connector Amp Part numbers are 5-160558-9 or 5-1605-26-9