

AZ973

40 AMP MINI-ISO AUTOMOTIVE RELAY

FEATURES

- Quick connect terminals
- 40 Amp contact rating
- High momentary carry current (60A)
- High operating temperature (110°C)
- SPST (1 Form A), SPDT (1 Form C)
- Epoxy sealed versions available
- Metal or plastic mounting bracket available
- Resistor or diode parallel to coil available
- ISO/TS 16949, ISO14000



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 560W (SPST) 560W (N.O.) 420W (N.C.) Max. switched current: 40A (SPST) 40A (N.O.) 30A (N.C.) Max. switched voltage: 75VDC
Material	Silver tin oxide
Resistance	< 100 milliohms initially (6V, 1A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	0.68W
Max. Continuous Dissipation	5.1W at 20°C (68°F)
Temperature Rise	52°C (94°F) at nominal coil voltage
Temperature	Max. 155°C (311°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 ⁶ at 40A, 14VDC Res.
Operate Time (max.)	7ms at nominal coil voltage
Release Time (max.)	5ms 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 Storage	-55°C (-67°F) to 110°C (230°F) -55°C (-67°F) to 155°C (311°F)
Vibration	0.062" DA at 10-40 Hz
Shock	100 m/s ²
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	Approx. 35 grams

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RELAY ORDERING DATA

COIL SPECIFICATIONS			
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$
6	3.9	10.1	22
12	7.8	20.2	85
24	15.6	40.5	350

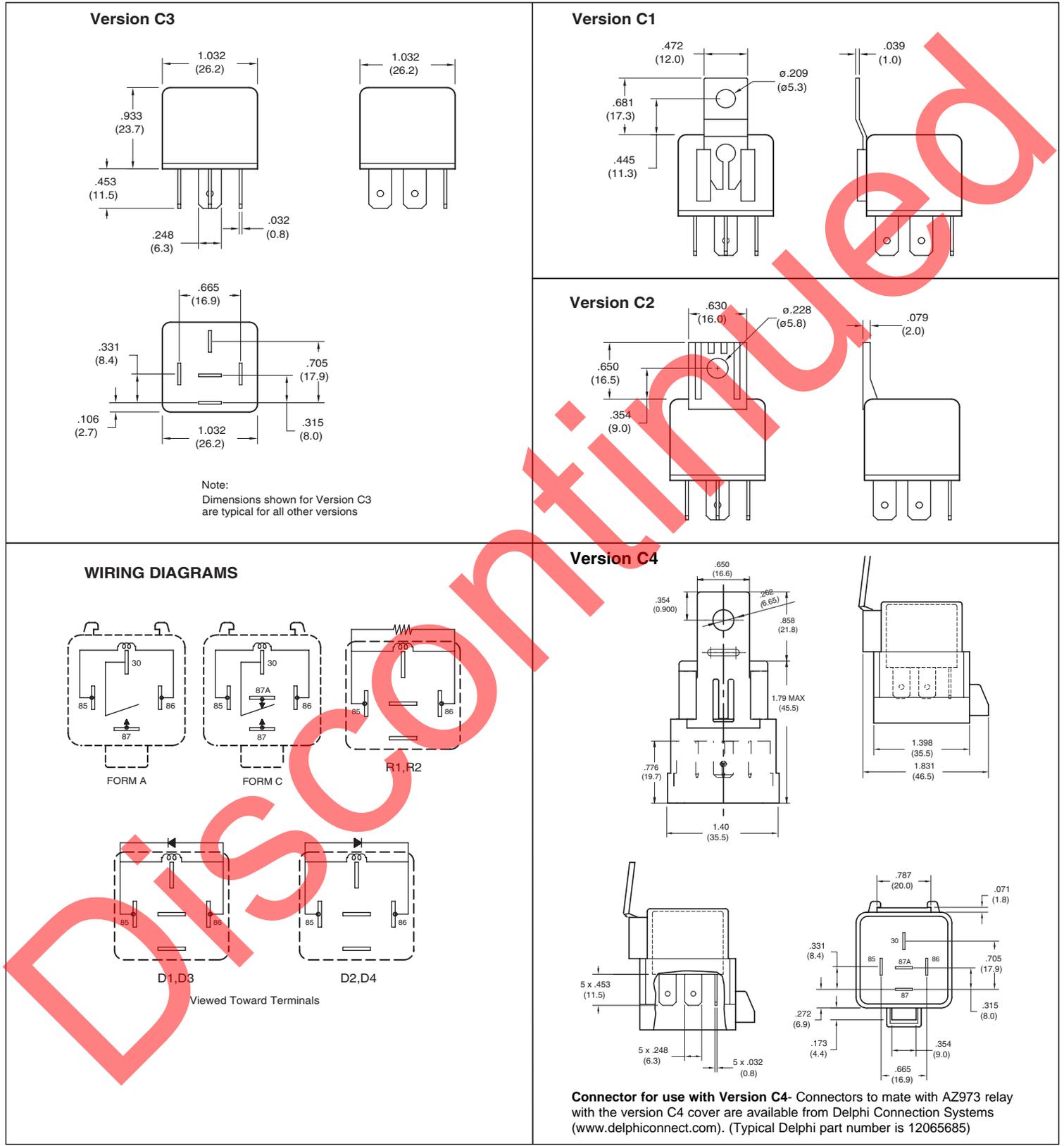
RELAY ORDERING DATA

AZ973-1C-12DC2R1

- Blank - Standard no diode, no resistor
- R1 - 680 Ohm, 1/2 w resistor in parallel with 12 V coil
2700 Ohm 1/2 w resistor in parallel with 24 V coil
- R2 - 820 Ohm, 1/2 w resistor in parallel with 12 V coil
3200 Ohm 1/2 w 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
- D3 - 1N4004 diode in parallel with coil, anode on #86 terminal
- D4 - 1N4004 diode in parallel with coil, cathode on #86 terminal
- C1 - Plastic dust cover with steel mounting bracket
- C1E - Plastic dust cover with steel mounting bracket, sealed
- C2 - Plastic dust cover with plastic mounting bracket
- C2E - Plastic dust cover with plastic mounting bracket, sealed
- C3 - Plastic dust cover
- C3E - Plastic dust cover, sealed
- C4 - Plastic dust cover, shrouded, sealed, with metal mounting bracket
- 24D - 24 volt coil
- 12D - 12 volt coil
- 6D - 6 volt coil
- 1A - SPNO Single pole normally open
- 1C - SPDT Single pole double throw
- Basic series designation - AZ973

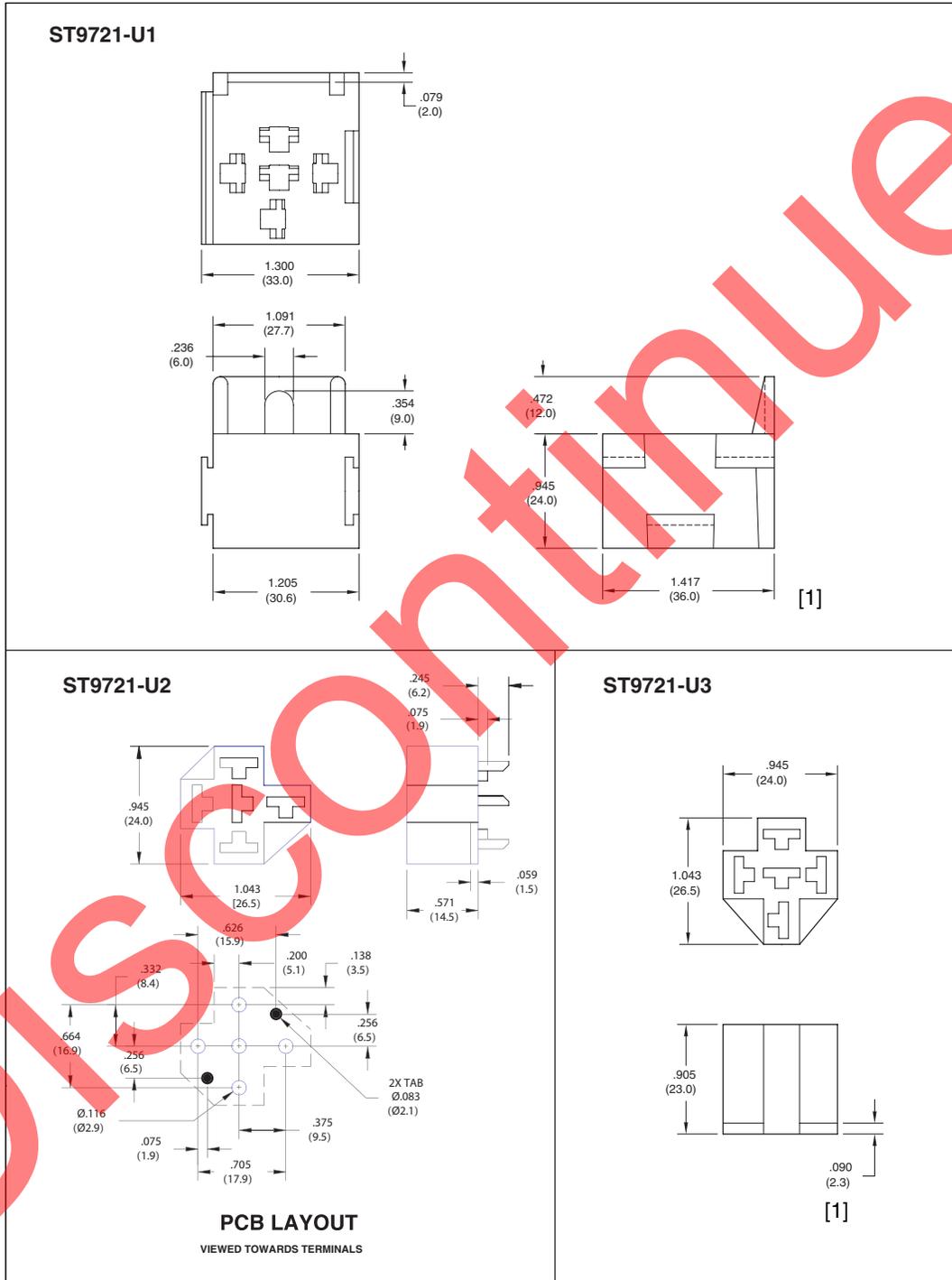
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MECHANICAL DATA



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

Sockets & Hardware for AZ973



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