# AZ973\_

## 40 AMP AUTOMOTIVE RELAY

#### FEATURES

- 40 Amp contact rating
- High momentary carry current (60A)
- High operating temperature (85°C)
- SPST (1 Form A), SPDT (1 Form C)
- Quick connect terminals
- Metal or plastic mounting bracket available
- Resistor or diode parallel to coil available

#### CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)		
Ratings	Resistive load:		
	Max. switched power: 560 W (SPST) 560 W (N.O.) 420 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 (6 V, 1 A voltage drop method)		

#### COIL

Power		
At Pickup Voltage (typical)	0.68 W	
Max. Continuous Dissipation	5.1 W 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 <sup>7</sup> 1 x 10 <sup>5</sup> 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 85°C (185°F) -55°C (-67°F) to 105°C (221°F)	
Vibration	0.062" (1.5 mm) DA at 10-40 Hz	
Shock	100 m/s <sup>2</sup>	
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	31 grams	

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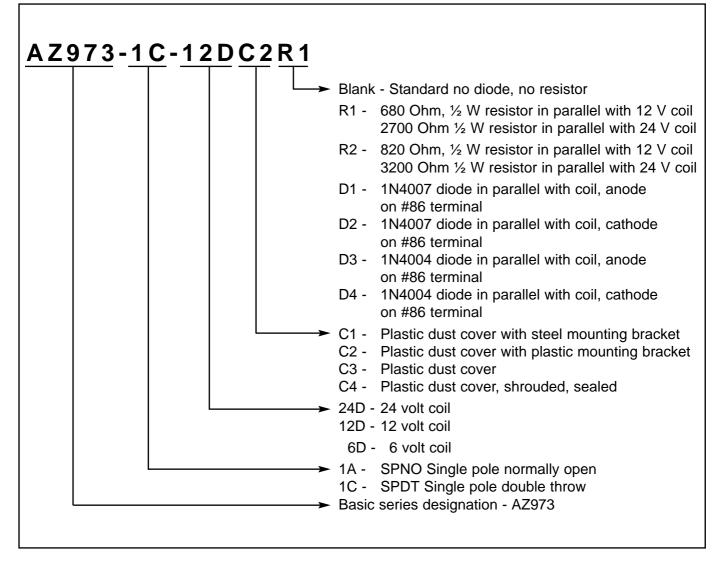
Junkersstrasse 3, D-82178 Puchheim, Germany

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#### RELAY ORDERING DATA

COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%		
6	3.9	10.6	22		
12	7.8	21.0	85		
24	15.6	42.2	350		

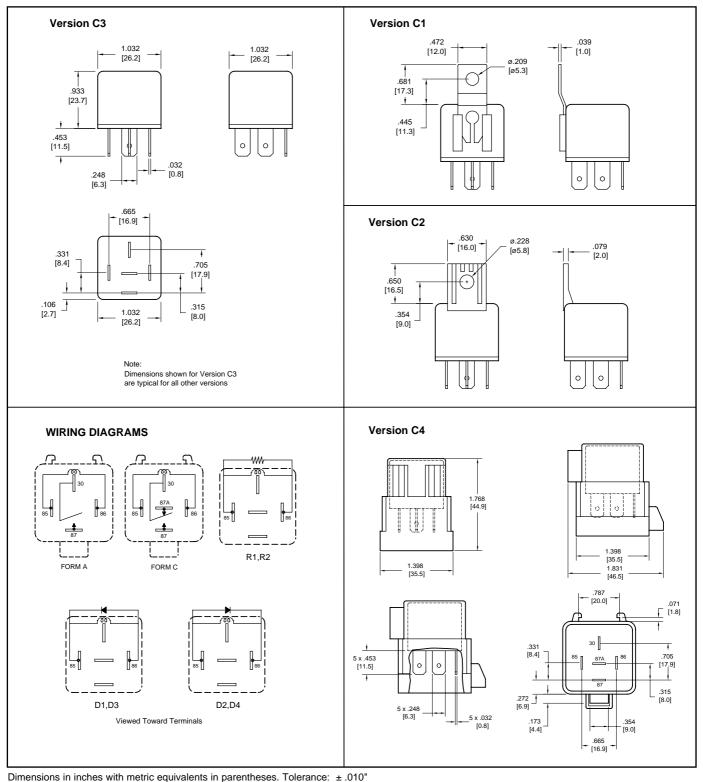
#### RELAY ORDERING DATA



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#### MECHANICAL DATA



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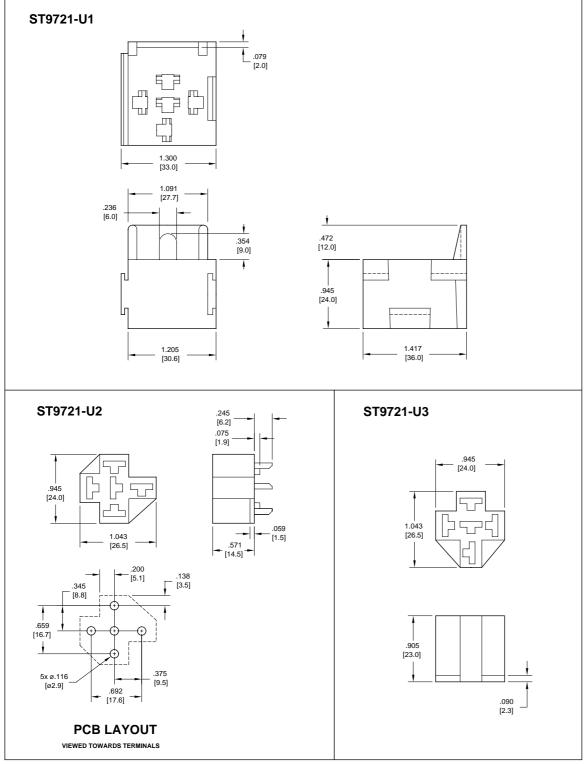
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## Sockets & Hardware for AZ973



Note: Recommended receptical connector Amp Part numbers are 5-160558-9 or 5-1605-26-9

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