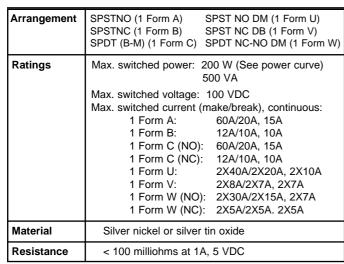
AZ975/AZ976

20 AMP SUB-MINIATURE POWER RELAY FOR AUTOMOTIVE USE

FEATURES

- Low cost
- Up to 20 Amp switching capability in a compact size
- · Open, covered or sealed
- Coils to 24 VDC
- · Small footprint
- Six different contact arrangements available
- · Vibration and shock resistant
- · Designed for high in-rush applications





COIL

Power	
At Pickup Voltage (typical)	514 mW (12 and 24 VDC Coil) 573 mW (6 VDC Coil)
Max. Continuous Dissipation	3.4 W 20°C (68°F) ambient - AZ975 3.1 W 20°C (68°F) ambient - AZ976
Temperature Rise	50°C (90°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.
- Electrical life obtained at resistive or inductive load of 10A, 15 VDC for A, B, C, U, V contacts, 7A, 15 VDC for W contacts with suitable arcsuppression circuit attached with operating frequency of 1 ops/sec.
- 4. Relay may pull in with less than "Must Operate" value.
- 5. Specifications subject to change without notice.



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ operations 1 x 10 ⁵ operations at 12 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	> 6% (for B&V), > 11% (for ACUW) 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		
Shock	10 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	AZ975 = 8g, AZ976 = 12g, approx.		

RELAY ORDERING DATA — AZ 975 - Open Style

COIL SPECIFICATIONS - DC Coil				ORDER NUMBER*			
Nominal Coil	Must Opera	ate VDC	Max. Continuous	Coil Resistance	Form A	Form B	Form C
VDC	A.B.C.U.V.	W.	VDC	±10%	[SPST NO]	[SPST NC]	[SPDT]
6	3.75	4.5	9.75	28	AZ975-1A-6D	AZ975-1B-6D	AZ975-1C-6D
12	7.5	9.0	21.0	130	AZ975-1A-12D	AZ975-1B-12D	AZ975-1C-12D
24	15.0	18.0	42.0	520	AZ975-1A-24D	AZ975–1B–24D	AZ975-1C-24D

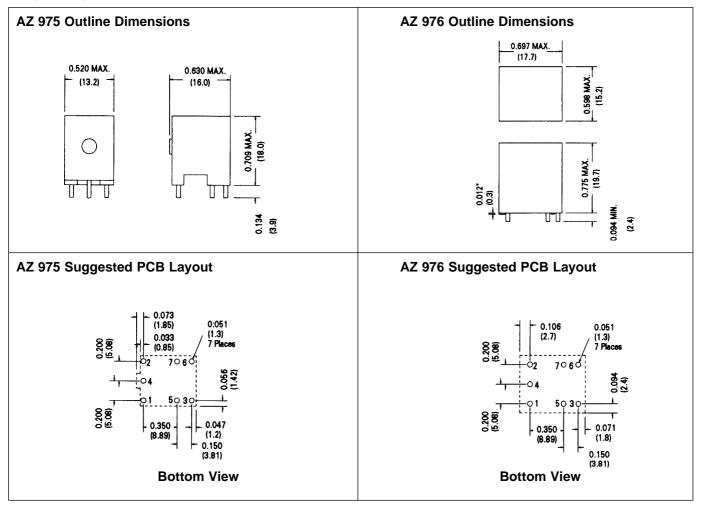
^{*} Use "U", "V" or "W" in place of "A" for Form U, Form V or Form W relays.

RELAY ORDERING DATA - AZ 976 - With Dust Cover

COIL SPECIFICATIONS - DC Coil				ORDER NUMBER*			
Nominal Coil	Must Opera	ate VDC	Max. Continuous	Coil Resistance	Form A	Form B	Form C
VDC	A.B.C.U.V.	W.	VDC	±10%	[SPST NO]	[SPST NC]	[SPDT]
6	3.75	4.5	9.2	28	AZ976-1A-6D	AZ976-1B-6D	AZ976-1C-6D
12	7.5	9.0	20.0	130	AZ976-1A-12D	AZ976-1B-12D	AZ976-1C-12D
24	15.0	18.0	40.0	520	AZ976-1A-24D	AZ976-1B-24D	AZ976-1C-24D

^{*} Add suffix "E" for epoxy sealed version. Use "U", "V" or "W" in place of "A" for Form U, Form V or Form W relays. Add suffix "T" for silver tin oxide.

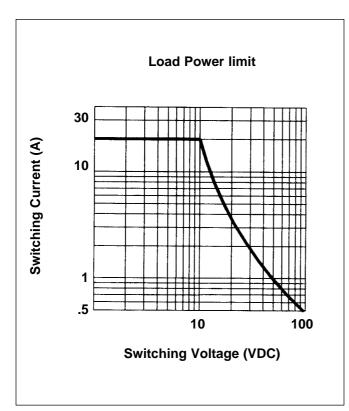
MECHANICAL DATA

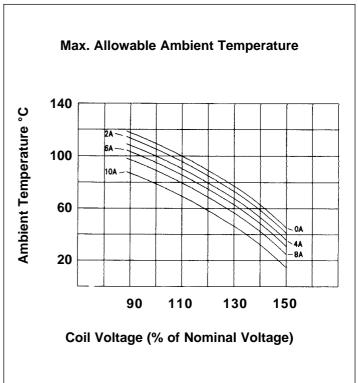


Dimensions in inches with metric equivalents in parentheses. Tolerance: ± 0.010"

ZETTLER electronics GmbH

AZ975/AZ976_





MECHANICAL DATA

