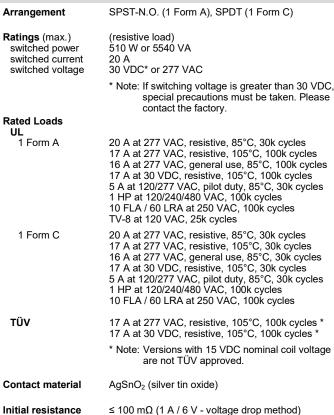


20 AMP MINIATURE POWER RELAY

FEATURES

- 20 Amp switching capability
- Available in SPST-N.O. and SPDT versions
- Dielectric strength of 5000 V_{RMS}
- Ambient temperature up to 105°C (221°F)
- · Epoxy sealed versions available
- · Compact size, low seated height of 15.3 mm
- UL / CUR file E44211
- TÜV: R50400691

CONTACTS





Max. temperature

Nominal coil DC voltages see coil voltage specifications table Dropout voltage ≥ 5% of nominal coil voltage Coil power 400 mW nominal at pickup voltage 225 mW (typ.) 1.7 W at 20°C (68°F) max. cont. dissipation **Temperature Rise** 26 K (47°F) at nominal coil voltage

Class F insulation - 155°C (311°F)



GENERAL DATA	
Life Expectancy mechanical electrical	(minimum operations) 1 x 10^7 1 x 10^5 at 17 A, 277 VAC, resistive
Operate Time Release Time	15 ms (max.) at nominal coil voltage 8 ms (max.) at nominal coil voltage, without coil suppression
Dielectric Strength	(at sea level for 1 min.) 5000 V _{RMS} coil to contact 1000 V _{RMS} between open contacts
Surge voltage coil to contact	10 kV (at 1.2 x 50 μs)
Insulation Resistance	1000 M Ω (min.) at 20°C, 500 VDC, 50% RH
Temperature Range operating	(at nominal coil voltage) -40°C (-40°F) to 105°C (221°F)
Vibration resistance Shock resistance	0.062" (1.5 mm) DA at 10–55 Hz 10 g
Enclosure Terminals	P.B.T. polyester, UL94 V-0 Tinned copper alloy, P. C.
Soldering max. temperature max. time	270 °C (518°F) 5 seconds
Cleaning max. solvent temp. max. immersion time	80°C (176°F) 30 seconds
Dimensions length width height Weight	29.3 mm (1.154") 12.7 mm (0.500") 15.3 mm (0.602") 14 grams (approx.)

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Compliance

UL 508, IEC 61810-1, IEC 60335-1 (GWT), RoHS, REACH

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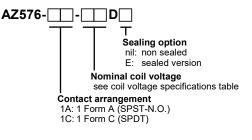
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AZ576

COIL VOLTAGE SPECIFICATIONS

r		r	
Nominal Coil	Must Operate	Max. Continuous	Resistance
VDC	VDC	VDC	Ohm ± 10%
0	0.05	4.5	00.5
3	2.25	4.5	22.5
5	3.75	7.5	62
6	4.5	9.0	90
9	6.75	13.5	202
12	9.0	18.0	360
15	11.25	22.5	560
18	13.5	27.0	810
22	16.5	33.0	1210
24	18.0	36.0	1440
36	27.0	54.0	3240
48	36.0	72.0	5760
60	45.0	90.0	9000
110	82.5	165.0	30250

ORDERING DATA

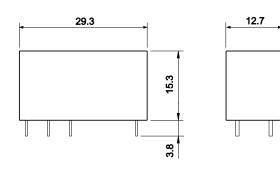


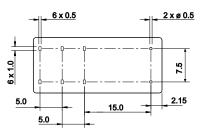
Example ordering data

AZ576-1A-9D	1 Form A, 9 VDC nominal coil voltage, non sealed
AZ576-1C-12DE	1 Form C, 12 VDC nominal coil voltage, sealed

MECHANICAL DATA

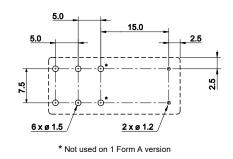
Dimensions in mm. Outline tolerance: ± 0.5 mm





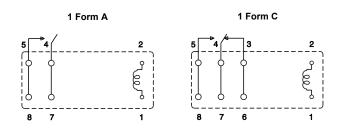
PC BOARD LAYOUT

Recommendation for PC board layout. Dimensions in mm. Viewed towards terminals.



WIRING DIAGRAMS

Viewed towards terminals.



NOTES

- 1. Specifications subject to change without notice.
- 2. All values at 23°C (73°F) unless otherwise stated.
- 3. Relay may pull in with less than "Must Operate" value.
- 4. Coil suppression circuits such as diodes, etc. in parallel to the coil will lengthen the release time.

DISCLAIMER

This product specification is to be used in conjunction with the application notes which can be downloaded from

www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf

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The specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.

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