

AZ576

20 A SPDT MINIATURE POWER RELAY

FEATURES

- Ambient Temperature up to 105°C (221°F)
- Dielectric strength 5000 Vrms
- Low height: 16.2 mm
- Epoxy sealed version available
- 20 Amp switching capability
- UL, CUR file E44211
- TÜV certificate R50333135



CONTACTS

Arrangement	SPDT (1 Form C) SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 510 W or 5540 VA Max. switched current: 20 A Max. switched voltage: 30 VDC* or 277 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL	20 A at 277 VAC, resistive, 85°C, 30k cycles 5 A at 120/277 VAC, pilot duty, 85°C, 30k cycles 1 HPat 120/240/480 VAC, 100k cycles 10 FLA / 60 LRA at 250 VAC, 100k cycles 1 Form A 17 A at 277 VAC, resistive, 105°C, 100k cycles 16 A at 277 VAC, general use, 85°C, 100k cycles 17 A at 30 VDC, resistive, 105°C, 100k cycles TV-8 at 120 VAC, 25k cycles
TÜV	1 Form C 17 A at 277 VAC, resistive, 105°C, 30k cycles 16 A at 277 VAC, general use, 85°C, 30k cycles 17 A at 30 VDC, resistive, 105°C, 30k cycles 17 A at 277 VAC, resistive, 105°C, 100k cycles 17 A 30 VDC, resistive, 105°C, 100k cycles 15 VDC coil is not TÜV approved!
Material	Silver tin oxide
Resistance	< 100 milliohms initially (at 6 V, 1 A, voltage drop method)

COIL

Power At Pickup Voltage (typical)	225 mW
Max. Continuous Dissipation	1.7 W at 20°C (68°F) ambient
Temperature Rise	26°C (47°F) at nominal coil voltage
Temperature	Max. 155°C (311°F) Class F

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 17 A, 277 VAC res.
Operate Time (typical)	8 ms at nominal coil voltage
Release Time (typical)	4 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000 Vrms coil to contact 1000 Vrms between open contacts
Surge Voltage Coil to contact	10,000 V (at 1.2x50 µs)
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 105°C (221°F)
Vibration	0.062" (1.5 mm) DA at 10–55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
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	12 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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This product specification to be used only together with the application notes which can be downloaded from <http://www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf>

2016-03-03

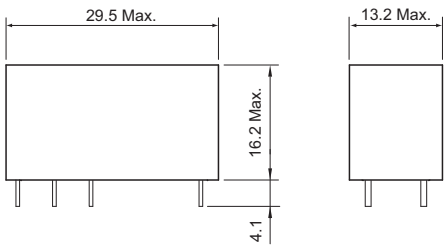
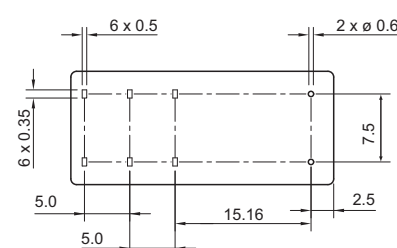
AZ576

RELAY ORDERING DATA

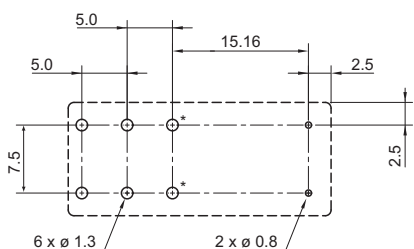
COIL SPECIFICATIONS				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	ORDER NUMBER*
3	2.25	4.5	22.5	AZ576-1A-3D
5	3.75	7.5	62.5	AZ576-1A-5D
6	4.50	9.0	90	AZ576-1A-6D
9	6.75	13.5	202.5	AZ576-1A-9D
12	9.00	18.0	360	AZ576-1A-12D
15	11.25	22.5	560	AZ576-1A-15D
22	16.25	33.0	1,210	AZ576-1A-22D
24	18.00	36.0	1,440	AZ576-1A-24D
36	27.00	54.0	3,240	AZ576-1A-36D
48	36.00	72.0	5,760	AZ576-1A-48D
60	45.00	90.0	9,000	AZ576-1A-60D
110	77.00	165.0	30,250	AZ576-1A-110D

* "1A" denote 1 Form A relay.
 Substitute "1C" in place of "1A" for 1 Form C relay.
 Add suffix "E" for sealed version.

MECHANICAL DATA

PC BOARD LAYOUT

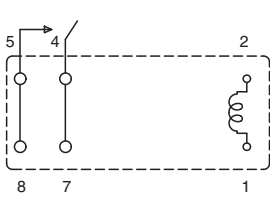


* Not used on 1 Form A relay

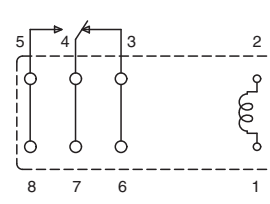
Viewed toward terminals

WIRING DIAGRAMS

1 Form A



1 Form C



Viewed toward terminals

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