

AZ576

20A MINIATURE POWER RELAY

FEATURES

- Class F standard
- Dielectric strength 5000Vrms
- Low cost
- Epoxy sealed versions available
- 20 Amp switching
- UL E44211
- TUV 50400691



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 510W or 5540VA Max. switched current: 20A Max. switched voltage: 30VDC or 480VAC *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	N.O. 20A at 277VAC Resistive, 30k cycles, 85°C 20A at 120VAC Resistive, 100k cycles, 65°C 17A at 277VAC/30VDC Resistive, 100k cycles, 105°C 16A at 120/277VAC General Use, 100k cycles, 85°C 16A at 277VAC Resistive, 100k cycles, 105°C 8A at 120VAC Tungsten, 30k cycles, 85°C 5A at 120/277VAC Pilot Duty, 30k cycles, 85°C 5A at 120VAC Ballast, 25k cycles, 85°C 1HP at 120/240/480VAC, 100k cycles, 40°C 1.5HP at 120VAC, 100k cycles, 85°C TV-8 120VAC, 25k cycles, 40°C TV-5 120VAC, 25k cycles, 85°C 60LRA/10FLA at 250VAC, 100k cycles, 40°C N.C. 20A at 277VAC Resistive, 30k cycles, 85°C 5A at 120/277VAC Pilot Duty, 30k cycles, 85°C 1HP at 120/240/480VAC, 100k cycles, 40°C 60LRA/10FLA 50VAC, 100k cycles, 40°C 17A at 277VAC/30VDC Resistive, 30k cycles, 105°C 16A at 277VAC General Use, 30k cycles, 85°C TÜV 17A at 277VAC / 30VDC Resistive, 100k cycles, 105°C * Note: Versions with 15 VDC nominal coil voltage are not TÜV approved.
Material	Silver Tin-Oxide
Resistance	Initial 100 milliohms max. at 6VDC, 1A

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ ops Min. (no load) 1 x 10 ⁵ ops Min. (rated load)
Operate Time (Max)	15ms at nominal coil voltage (<8ms typ)
Release Time (Max)	8ms at nominal coil voltage (<4ms typ) (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000Vrms coil to contact 1000Vrms between open contacts
Surge Voltage coil-contacts	10kV (1.2/50µs)
Insulation Resistance	1000 megohms min. at 20°C 500 VDC 50% RH
Dropout	Greater than 10% of nominal coil voltage (DC)
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 105°C (221°F) -40°C (-40°F) to 130°C (266°F)
Vibration	1.5mm 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

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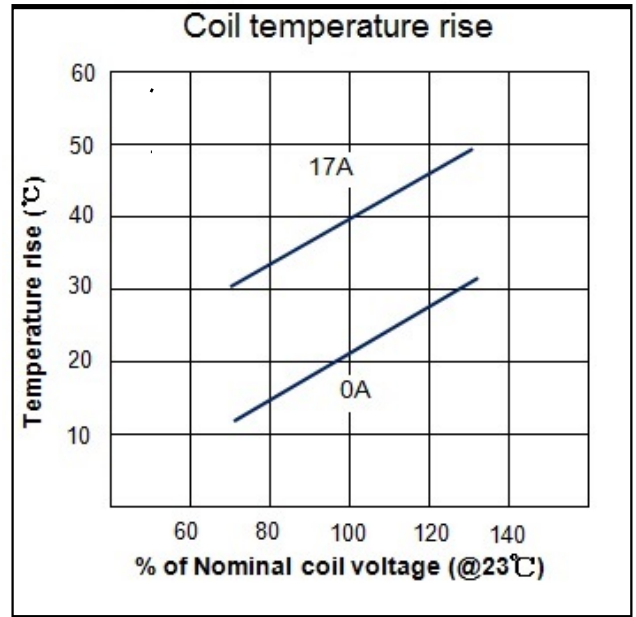
COIL

Power At Pickup Voltage (typical)	225mW, (DC, standard)
Max. Continuous Dissipation	1.7W at 20°C (68°F) ambient
Temperature Rise	26°C (47°F) at nominal coil voltage
	17°C (31°F) at nominal coil voltage, sensitive coil
Max. Temperature	130°C (266°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.

Temperature DATA



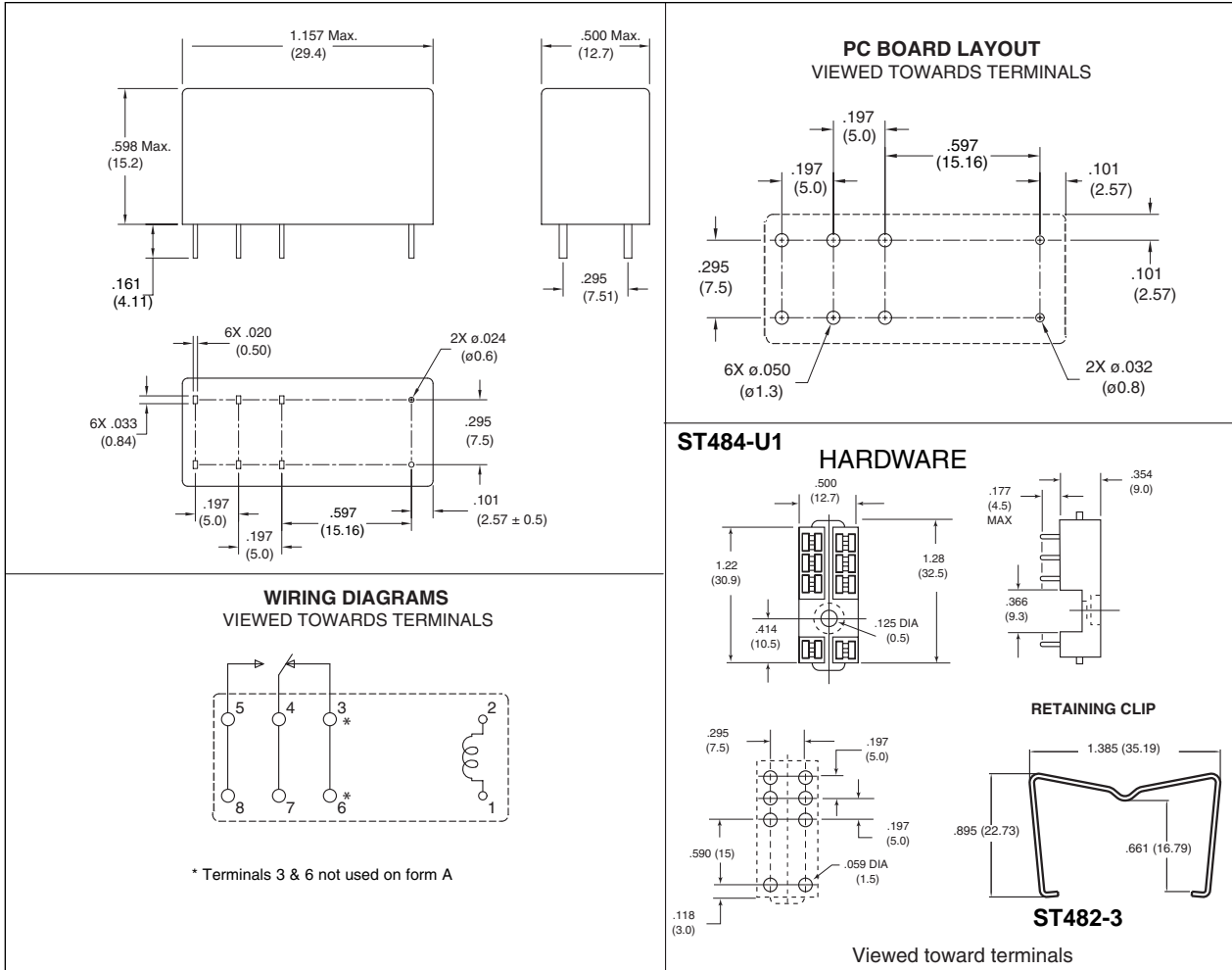
RELAY ORDERING DATA

COIL SPECIFICATIONS – DC COIL				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohms ± 10%	Unsealed	Sealed
3	2.25	4.5	22.5	AZ576-1C-3D	AZ576-1C-3DE
5	3.75	7.5	62.5	AZ576-1C-5D	AZ576-1C-5DE
6	4.5	9	90	AZ576-1C-6D	AZ576-1C-6DE
9	6.75	13.5	202.5	AZ576-1C-9D	AZ576-1C-9DE
12	9	18	360	AZ576-1C-12D	AZ576-1C-12DE
15	11.25	22.5	560	AZ576-1C-15D	AZ576-1C-15DE
22	16.5	33	1,210	AZ576-1C-22D	AZ576-1C-22DE
24	18	36	1,440	AZ576-1C-24D	AZ576-1C-24DE
36	27	54	3,240	AZ576-1C-36D	AZ576-1C-36DE
48	36	72	5,760	AZ576-1C-48D	AZ576-1C-48DE
60	45	90	9,000	AZ576-1C-60D	AZ576-1C-60DE
110	77	165	30,250	AZ576-1C-110D	AZ576-1C-110DE

Substitute "1A" in place of "1C" to indicate Form A configuration. When suffix "E" is specified for Epoxy Seal, refer to AZ "Relay Technical Notes" on AZ website - Product Resources. Consult factory for other PCB process conditions that may apply.

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MECHANICAL DATA



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