

AZ764

16 A SPDT MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- Low height: 15.7 mm
- Epoxy sealed version available
- 16 Amp switching
- AC and DC coils
- Isolation spacing greater than 10 mm
- Proof tracking index (PTI/CTI) 250
- Surpasses requirements of VDE 0631/0700
- UL, CUR file E43203; VDE 112904



CONTACTS

Arrangement	SPDT (1 Form C) SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 480 W or 4000 VA Max. switched current: 16 A Max. switched voltage: 300* VDC or 400 VAC <small>*Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.</small>
Rated Load UL, CUR VDE	16 A at 250 VAC resistive 16 A at 250 VAC
Material	Silver cadmium oxide (not available with AC coils), silver nickel or silver tin oxide
Resistance	< 100 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	200 mW (DC coil) .422 VA (AC coil)
Max. Continuous Dissipation	1.7 W at 20°C (68°F) ambient
Temperature Rise	26°C (47°F) at nominal coil voltage
Max. Temperature	115°C (239°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 3 x 10 ⁷ 1 x 10 ⁵ at 16 A 240 VAC res.
Operate Time (typical)	7 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
Insulation Resistance	1000 megohms min. at 20°C 500 VDC 50% RH
Dropout	Greater than 10% of nominal coil voltage - DC Greater than 15% of nominal coil voltage - AC
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 90°C (194°F) - DC coils -40°C (-40°F) to 75°C (167°F) - AC coils -40°C (-40°F) to 115°C (239°F)
Vibration	0.062" DA at 10–55 Hz
Shock	30 g
Enclosure	P.B.T. polyester, UL-94 ; V0
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	14 grams



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RELAY ORDERING DATA

COIL SPECIFICATIONS - DC Coil				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Unsealed	Sealed
3	2.1	7.6	22	AZ764-1CH-3D	AZ764-1CH-3DE
5	3.5	12.7	60	AZ764-1CH-5D	AZ764-1CH-5DE
6	4.2	15.3	90	AZ764-1CH-6D	AZ764-1CH-6DE
9	6.3	22.9	200	AZ764-1CH-9D	AZ764-1CH-9DE
12	8.4	30.6	360	AZ764-1CH-12D	AZ764-1CH-12DE
18	12.6	45.9	710	AZ764-1CH-18D	AZ764-1CH-18DE
24	16.8	61.2	1,440	AZ764-1CH-24D	AZ764-1CH-24DE
36	25.2	92	3,140	AZ764-1CH-36D	AZ764-1CH-36DE
48	33.6	122.0	5,700	AZ764-1CH-48D	AZ764-1CH-48DE
60	42.0	153.0	7,500	AZ764-1CH-60D	AZ764-1CH-60DE
110	77.0	280.0	25,200	AZ764-1CH-110D	AZ764-1CH-110DE

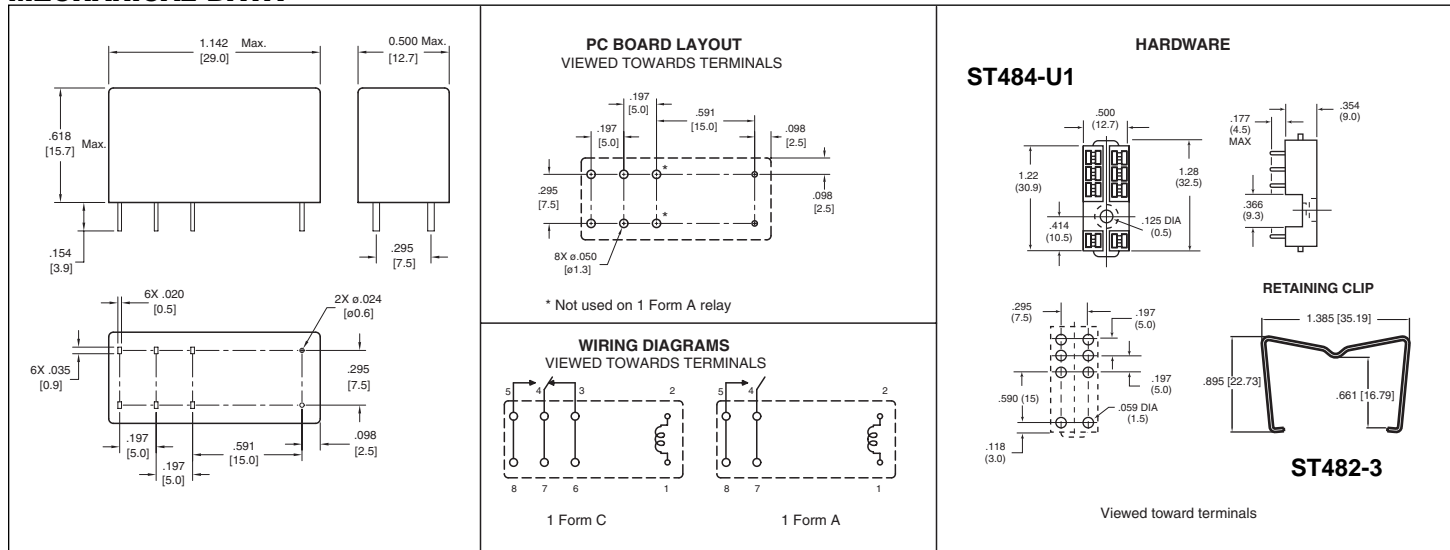
COIL SPECIFICATIONS - AC Coil					ORDER NUMBER*	
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Current mA $\pm 10\%$	Coil Resistance $\pm 10\%$	Unsealed	Sealed
24	18.0	36.0	31.3	400	AZ764-1CE-24A	AZ764-1CE-24AE
48	36.0	72.0	15.6	1550	AZ764-1CE-48A	AZ764-1CE-48AE
60	45.0	90.0	12.5	2600	AZ764-1CE-60A	AZ764-1CE-60AE
110	82.5	165.0	6.8	8900	AZ764-1CE-110A	AZ764-1CE-110AE
115	86.3	172.5	6.5	9600	AZ764-1CE-115A	AZ764-1CE-115AE
120	90.0	180.0	6.3	10200	AZ764-1CE-120A	AZ764-1CE-120AE
220	165.0	330.0	3.4	35500	AZ764-1CE-220A	AZ764-1CE-220AE
230	172.5	345.0	3.3	38500	AZ764-1CE-230A	AZ764-1CE-230AE
240	180.0	360.0	3.1	42500	AZ764-1CE-240A	AZ764-1CE-240AE

* "-1CH" denotes silver cadmium oxide contacts (not available with AC coils). For silver tin oxide contacts substitute "E" for "H". For silver nickel contacts remove the "H". For 1 Form A contacts substitute "A" for "C". NOTE: 1 Form A contacts are only available for DC coil versions.

HARDWARE ORDERING DATA

DESCRIPTION	ORDER NUMBER	DESCRIPTION	ORDER NUMBER
Socket	ST484-U1	Retainer	ST482-3

MECHANICAL DATA



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



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