AZ742

8 A DPDT MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- Low height: 15.7 mm
- Epoxy sealed version available
- 8 Amp switching — double pole contacts
- 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 119918

CONTACTS

Arrangement	DPDT (2 Form C) DPST (2 Form A)
Ratings	Resistive load: Max. switched power: 240 W or 2000 VA Max. switched current: 8 A Max. switched voltage: 150* VDC or 400 VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load **UL, CUR** **VDE**	 8 A at 250 VAC resistive 8 A at 250 VAC
Material	Silver nickel or silver nickel gold plated
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 3×10^7 1×10^5 at 8 A 240 VAC res.
Operate Time (typical)	7 ms at nominal coil voltage
Release Time (typical)	3 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000 Vrms coil to contact 2500 Vrms between contact sets 1000 Vrms between open contacts
Insulation Resistance	1000 megohms min. at 500 VDC, 20°C, 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	20 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

AMERICAN ZETTLER, INC. *www.azettler.com*

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3/3/04W

AZ742

RELAY ORDERING DATA

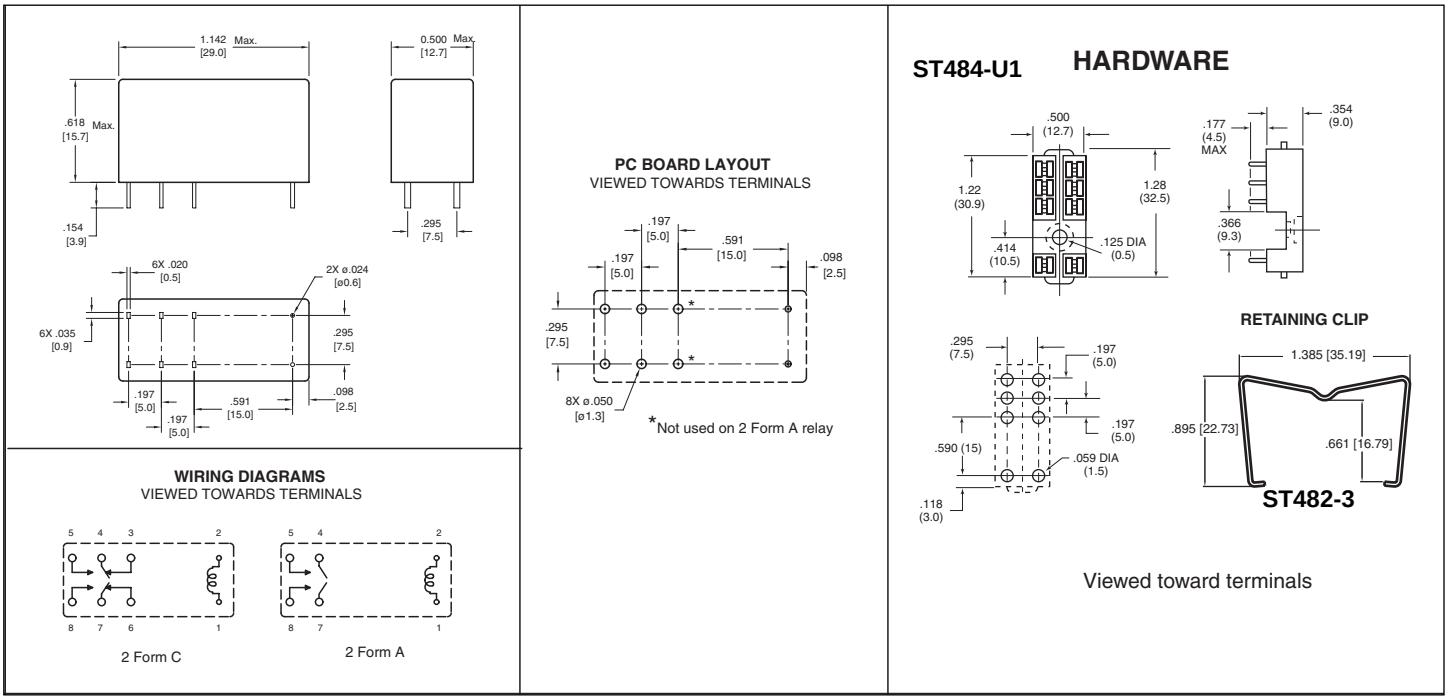
COIL SPECIFICATIONS - DC COIL				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm, ± 10%	2 Form A	2 Form C
3	2.1	7.6	22	AZ742–2A–3D	AZ742–2C–3D
5	3.5	12.7	60	AZ742–2A–5D	AZ742–2C–5D
6	4.2	15.3	90	AZ742–2A–6D	AZ742–2C–6D
9	6.3	22.9	200	AZ742–2A–9D	AZ742–2C–9D
12	8.4	30.6	360	AZ742–2A–12D	AZ742–2C–12D
18	12.6	45.9	710	AZ742–2A–18D	AZ742–2C–18D
24	16.8	61.2	1,440	AZ742–2A–24D	AZ742–2C–24D
36	25.2	92.0	3,140	AZ742–2A–36D	AZ742–2C–36D
48	33.6	122.0	5,700	AZ742–2A–48D	AZ742–2C–48D
60	42.0	153.0	7,500	AZ742–2A–60D	AZ742–2C–60D
110	77.0	280.0	25,200	AZ742–2A–110D	AZ742–2C–110D

COIL SPECIFICATIONS - AC Coil					ORDER NUMBER*
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Current mA ±10%	Coil Resistance ±10%	2 Form C
12	9.0	18.0	63.0	100	AZ742–2C–12A
24	18.0	36.0	31.3	400	AZ742–2C–24A
48	36.0	72.0	15.6	1550	AZ742–2C–48A
60	45.0	90.0	12.5	2600	AZ742–2C–60A
110	82.5	165.0	6.8	8900	AZ742–2C–110A
115	86.3	172.5	6.5	9600	AZ742–2C–115A
120	90.0	180.0	6.3	10200	AZ742–2C–120A
220	165.0	330.0	3.4	35500	AZ742–2C–220A
230	172.5	345.0	3.3	38500	AZ742–2C–230A
240	180.0	360.0	3.1	42500	AZ742–2C–240A

HARDWARE ORDERING DATA
DESCRIPTION
Socket
ORDER NUMBER
ST484–U1
DESCRIPTION
Retainer
ORDER NUMBER
ST482–3

* Add suffix “E” for sealed version. “For gold plated contacts substitute “-2AG” for “-2A” or “-2CG” for “-2C”.

MECHANICAL DATA



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

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