AZ761_

12 A SPDT MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- Low cost
- · Epoxy sealed versions available
- 12 Amp switching
- Class B (130°C) standard
- Class F (155°C) versions available
- Isolation spacing greater than 10 mm
- UL, CUR file E44211, VDE 40006031

CONTACTS

Arrangement	SPDT (1 Form C) SPST (1 Form A, 1 Form B)
Ratings	Resistive load: Max. switched power: 360 W or 3324 VA Max. switched current: 12 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	12 A at 277 VAC resistive, 50k cycles (standard coils) [1] 12 A at 277 VAC resistive, 100k cycles (standard coils) [2] [3] 10 A at 250 VAC resistive, 100k cycles (sensitive coils) [1] 1/2 HP at 250 VAC (1 Form A) [1] 1/3 HP at 125 VAC (1 Form A) [1] B300 Pilot Duty [2] R300 Pilot Duty [2]
VDE	12 A at 250 VAC resistive, 30k cycles [1] and 20k cycles [2] Contact factory for additional VDE ratings [1] Silver cadmium oxide, [2] Silver tin oxide [3] Silver nickel
Material	Silver cadmium oxide or silver tin oxide or silver nickel Gold plating available
Resistance	< 50 milliohms initially (using 6 V 1 A method)

COIL

Power	
At Pickup Voltage (typical)	196 mW, standard 141 mW, sensitive
Max. Continuous Dissipation	1.7 W 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) Class B 155°C (311°F) Class F



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 12 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 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		
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 100°C (212°F) -40°C (-40°F) to 105°C (221°F) sensitive coil -40°C (-40°F) to 130°C (266°F) Class B -40°C (-40°F) to 155°C (311°F) Class F		
Vibration	0.062" 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	14 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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RELAY ORDERING DATA

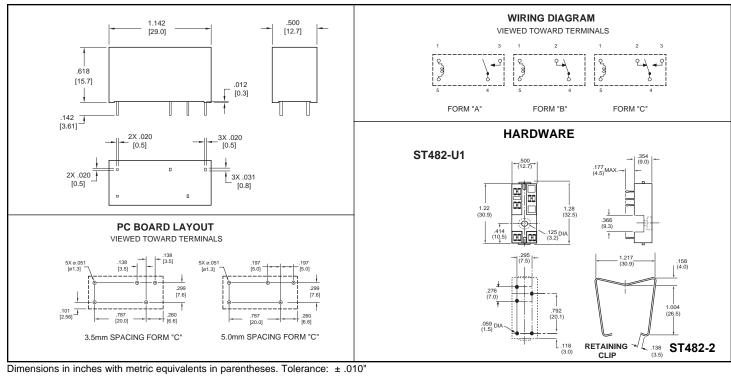
COIL SPECIFICATIONS – 12 A RATING				ORDER NUMBER*		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	Unsealed	Sealed	
5	3.5	10.2	62	AZ761–1C–5D	AZ761–1C–5DE	
6	4.2	12.3	90	AZ761–1C–6D	AZ761-1C-6DE	
12	8.4	24.7	360	AZ761–1C–12D	AZ761–1C–12DE	
18	12.6	37.0	810	AZ761–1C–18D	AZ761–1C–18DE	
24	16.8	49.4	1,440	AZ761–1C–24D	AZ761–1C–24DE	
48	33.6	98.0	5,760	AZ761–1C–48D	AZ761–1C–48DE	
60	42.0	112.9	7500	AZ761–1C–60D	AZ761-1C-60DE	
110	77.0	206.9	25,200	AZ761–1C–110D	AZ761–1C–110DE	
COIL SPECIFICATIONS - SENSITIVE COIL – 10 A RATING				ORDER NUMBER*		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	Unsealed	Sealed	
5	3.8	13.0	100	AZ761–1C–5DS	AZ761–1C–5DSE	
6	4.5	15.6	144	AZ761–1C–6DS	AZ761-1C-6DSE	
12	9.0	31.3	576	AZ761–1C–12DS	AZ761–1C–12DSE	
18	13.5	46.9	1296	AZ761–1C–18DS	AZ761–1C–18DSE	
24	18.0	62.6	2304	AZ761–1C–24DS	AZ761–1C–24DSE	
48	36.0	125.2	9216	AZ761–1C–48DS	AZ761–1C–48DSE	
60	45.0	147.8	12867	AZ761–1C–60DS	AZ761–1C–60DSE	

Substitute "1A" or "1B" in place of "1C" for Form A or B respectively. Add suffix "E" to "1A" or "1B" or "1C" for silver tin oxide contacts. Add suffix "B" to "1A" or "1B" or "1C" for silver nickel contacts. Add suffix "A" for gold plated contacts. *Add suffix "K" for 5 mm pin spacing version. Add suffix "F" for Class F version.

HARDWARE ORDERING DATA

DESCRIPTION	ORDER NUMBER	DESCRIPTION	ORDER NUMBER
Socket	ST482–U1	Retainer	ST482–2

MECHANICAL DATA





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