AZ761.

12 A SPDT MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- Low cost
- Epoxy sealed versions available
- 12 Amp switching
- AC and DC coils
- 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 VDE	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] 1/2 HP at 120VAC [1] 5mm spacing 1 pole 1/3 HP at 125 VAC (1 Form A) [1] B300 Pilot Duty [2] R300 Pilot Duty [2] 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	196 mW, (DC, standard)			
At Pickup Voltage	141 mW, (DC, sensitive)			
(typical)	0.43 VA (AC)			
Max. Continuous	1.7 W at 20°C (68°F) ambient			
Dissipation	26°C (47°F) at nominal coil voltage			
Temperature Rise	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 ExpectancyMinimum operationsMechanical1 x 107Electrical1 x 105 at 12 A 240 VAC Res.			
	1 x 10 ⁷		
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			
Insulation1000 megohms min. at 20°CResistance500 VDC 50% RH			
Dropout Greater than 10% of nominal coil voltage (DC Greater than 15% of nominal coil voltage (AC			
Ambient Temperature Operating 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.

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3. Specifications subject to change without notice.



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RELAY ORDERING DATA

COIL SPECIFICATIONS – 12 A RATING - DC COIL				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 SPECIFICATI	COIL SPECIFICATIONS - SENSITIVE COIL – 10 A RATING - DC COIL				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		

COIL SPECIFICATIONS - AC COIL					ORDER NUMBER*	
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Coil Current (mA)	Coil Resistance	Unsealed	Sealed
24	18.0	31.2	31.6	350 ± 10%	AZ761-1C-24AF	AZ761-1C-24AEF
115	86.3	149.5	6.6	8,100 ± 15%	AZ761–1C–115AF	AZ761-1C-115AEF
230	172.5	299.0	3.2	32,500 ± 15%	AZ761-1C-230AF	AZ761-1C-230AEF

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 (DC coils only).



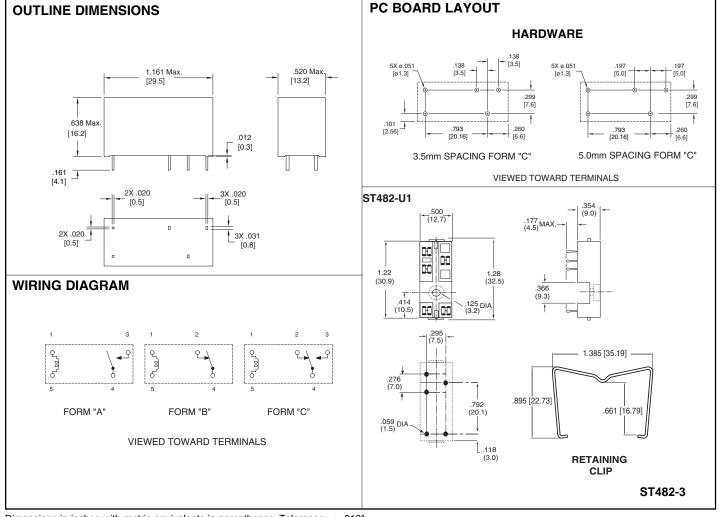




HARDWARE ORDERING DATA

DESCRIPTION	DESCRIPTION ORDER NUMBER		ORDER NUMBER	
Socket	ST482–U1	Retainer	ST482–3	

MECHANICAL DATA



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



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