# AZ733W \_

# 12A DPST MINIATURE POWER RELAY

### **FEATURES**

- Dielectric strength 5000Vrms
- 1.5mm contact gap (2.0mm contact gap available)
- Epoxy sealed version available
- 12 Amp switching double pole contacts
- Isolation spacing greater than 8mm
- UL Class B insulation system, Class F available-
- UL, CUR file E44211
- TÜV file R50129285

## CONTACTS

Arrangement	DPST (2 Form A)	
Ratings	Resistive load: Max. switched power: 240W or 2500VA Max. switched current: 12A Max. switched voltage: 250VDC* or 250VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.	
Rated Load UL, CUR TÜV	10A at 250VAC, 100k cycles [1] 12A at 277VAC, resistive, 70°C, 80K cycles [3] 1/3HP at 125VAC [3] 3/4HP at 250VAC [3] TV-3 at 125VAC, 25k cycles [1] 12A at 250VAC, resistive, 70°C, 10k cycles [1][2][3] 10A at 250VAC, resistive, 70°C, 30k cycles [1][2][3] 10A at 30VAC, resistive, 70°C, 10k cycles [1]	
Material	<ul><li>[1] Silver cadmium oxide, [2] Silver tin oxide</li><li>[3] Silver nickel with Gold plating available</li></ul>	
Resistance	< 50 milliohms initially (24V, 1A voltage drop method)	

#### COIL

Power			
At Pickup Voltage (typical)	450mW		
Max. Continuous Dissipation	2.0W at 20°C (68°F) ambient		
Temperature Rise	40°C (83°F) at nominal coil voltage		
Temperature	Max. 130°C (266°F) Class B		
	Max. 155°C (311°F) Class 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	Minimum operations		
Mechanical	5 x 10 <sup>5</sup>		
Electrical	1 x 10⁵ at 10A ,250VAC Res.		
Operate Time (Typical)	10ms at nominal coil voltage		
Release Time (Typical)	4ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength	5000Vrms contact to coil		
(at sea level for 1 min.)	2500Vrms between open contacts		
	3000Vrms between contact sets		
Insulation	1000 megohms min. at 20°C, 500VDC,		
Resistance	50% RH		
Dropout	Greater than 10% of nominal coil voltage		
Ambient Temperature	at nominal coil voltage		
Operating	-40°C (-40°F) to 85°C (185°F)		
Storage	-40°C (-40°F) to 105°C (221°F)		
Vibration	0.062" (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	Approx. 18 grams		

# AMERICAN ZETTLER, INC.

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## **RELAY ORDERING DATA**

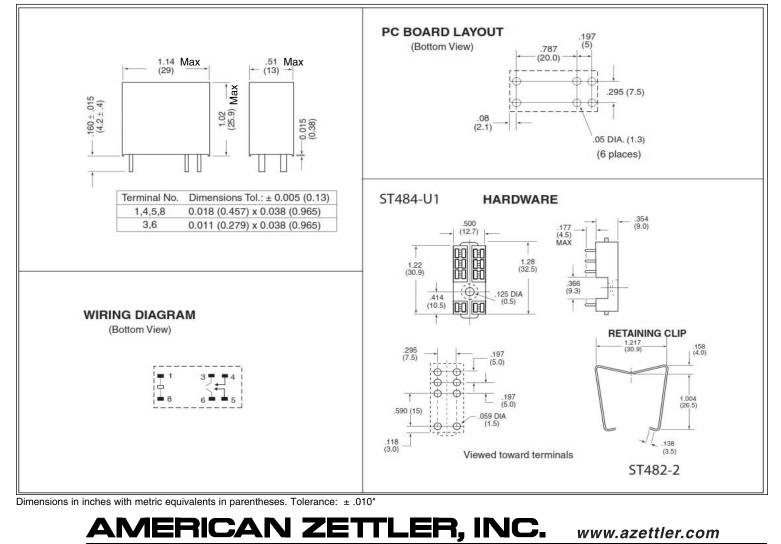
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohms ±10%	Unsealed	Sealed
3	2.25	4.7	11.3	AZ733W-2A-3D	AZ733W–2A–3DE
5	3.8	7.9	31	AZ733W-2A-5D	AZ733W-2A-5DE
6	4.5	9.5	45	AZ733W-2A-6D	AZ733W–2A–6DE
9	6.8	14.2	101	AZ733W-2A-9D	AZ733W–2A–9DE
12	9.0	18.9	180	AZ733W-2A-12D	AZ733W–2A–12DE
18	13.5	28.4	405	AZ733W-2A-18D	AZ733W–2A–18DE
24	18.0	37.9	720	AZ733W-2A-24D	AZ733W–2A–24DE
30	22.5	47.3	1125	AZ733W-2A-30D	AZ733W-2A-30DE
48	36.0	75.9	2,880	AZ733W-2A-48D	AZ733W-2A-48DE
60	45.0	94.8	4,500	AZ733W-2A-60D	AZ733W–2A–60DE
110	82.5	183.3	16,800	AZ733W-2A-110D	AZ733W-2A-110DE

\*Add suffix "E" to "2A" for silver tin oxide contacts. Add suffix "B" to "2A" for silver nickel contacts. Add suffix "F" for Class F insulation system. Add suffix "A" for gold plated contacts. 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.

#### HARDWARE ORDERING DATA

DESCRIPTION	ORDER NUMBER	DESCRIPTION	ORDER NUMBER
Socket	ST484–U1	Retainer	ST482–2

#### **MECHANICAL DATA**



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