AZ733W

DPST MINIATURE POWER RELAY

FEATURES

.

- Dielectric strength 5000 Vrms
- 1.5 mm contact gap
- Epoxy sealed version available
- 12 Amp switching double pole contacts
- Isolation spacing greater than 8 mm
- UL, CUR file E44211
- TÜV certificate R50129285



CONTACTS			GENERAL DATA	
Arrangement	DPST (2 F		Life Expectancy Mechanical	(minimum operations) 5 x 10 ⁵
Ratings (max.) switched power switched current	(resistive lo 300 W or 3 12 A		Electrical	1 x 10 ⁵ at 10 A 250 VAC resistive
switched voltage	250 VDC*	or 400 VAC	Operate Time	10 ms (typ.) at nominal coil voltage
	sp	switching voltage is greater than 30 VDC, becial precautions must be taken. Please	Release Time	4 ms (typ.) at nominal coil voltage, without coil suppression
Rated Loads UL	10 A at 250 12 A at 27 1/3 HP at 7	ontact the factory. VAC, 100k cycles [1] 7 VAC resistive, 70°C, 80k cycles [3] 125 VAC [3]	Dielectric Strength	(at sea level for 1 min.) 5000 V_{RMS} coil to contact 2500 V_{RMS} between open contacts 3000 V_{RMS} between contact sets
	3/4 HP at 250 VAC [3] TV-3 at 125 VAC, 25k cycles [1]		Insulation Resistance Isolation Spacing	1000 MΩ (min.) at 20°C, 500 VDC, 50% RH > 8 mm
TÜV	12 A at 250 VAC resistive, 70°C, 10k cycles [2][3] 10 A at 250 VAC resistive, 70°C, 30k cycles [1][2][3] 10 A at 30 VDC, 70°C, 10k cycles [1]		Temperature Range Operating	at nominal coil voltage -40°C (-40°F) to 70°C (158°F)
Contact materials AgCdO (silver cadmium oxide) [1] AgNi (silver nickel) [2] AgSnO ₂ (silver tin oxide) [3] gold plating available		er nickel) [2] ilver tin oxide) [3]	Vibration Shock	0.062" (1.5 mm) DA at 10–55 Hz 10 g
Initial resistance	< 50 mΩ		Enclosure	P.B.T. polyester
			Terminals	Tinned copper alloy, P. C.
COIL			Soldering	
		3, 5, 6, 9, 12, 18, 24, 48, 60	Max. Temperature	270°C (518°F)
Power at pickup voltage		450 mW (typ.)	Max. Time Cleaning	5 seconds
Max. continuous dissipation		2.0 W at 20°C (68°F) ambient	Max. Solvent Temp.	80°C (176°F)
Max. temperature		130°C (266°F)	Max. Immersion Time	30 seconds
Temperature Rise		40 K (72°F) at nominal coil voltage	Weight	18 grams

NOTES

Dropout

- 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.

ZETTLER electronics GmbH

Junkersstr. 3, D-82178 Puchheim, Germany

phone: +49 89 800 97-0 fax: +49 89 800 97-200

Weight

Packing unit in pcs

A ZETTLER GROUP Company

18 grams

50 per plastic tray / 500 per carton box

office@ZETTLERelectronics.com www.ZETTLERelectronics.com

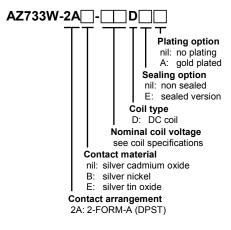
This product specification to be used only together with the application notes which can be downloaded from www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf

> 10% of nominal coil voltage

page 1 of 3 2016-10-14

AZ733W

ORDERING DATA



COIL SPECIFICATIONS

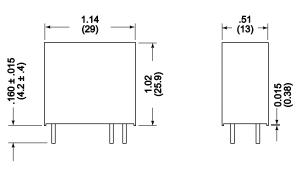
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Resistance Ohm ± 10%
3	2.25	4.7	11.3
5	3.8	7.9	31
6	4.5	9.5	45
9	6.8	14.2	101
12	9.0	18.9	180
18	13.5	28.4	405
24	18.0	37.9	720
48	36.0	75.9	2880
60	45.0	94.8	4500

Example ordering data

AZ733W-2AE-9D silver tin oxide, 9 VDC nominal coil voltage, non sealed AZ733W-2AB-12DA silver nickel, 12 VDC nominal coil voltage, gold plated

MECHANICAL DATA

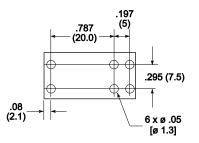
Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"



Terminal No. 1, 4, 5, 8 3, 6

Dimensions, Tol.: ± 0.005 (0.13) 0.018 (0.457) x 0.038 (0.965) 0.011 (0.279) x 0.038 (0.965)

PC BOARD LAYOUT



Viewed towards terminals

WIRING DIAGRAM



Viewed towards terminals

A ZETTLER GROUP Company

ZETTLER electronics GmbH

Junkersstr. 3, D-82178 Puchheim, Germany

phone: +49 89 800 97-0 fax: +49 89 800 97-200 office@ZETTLERelectronics.com www.ZETTLERelectronics.com

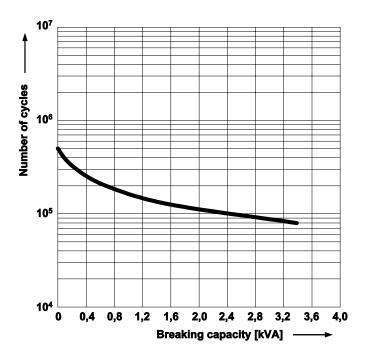
This product specification to be used only together with the application notes which can be downloaded from www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf

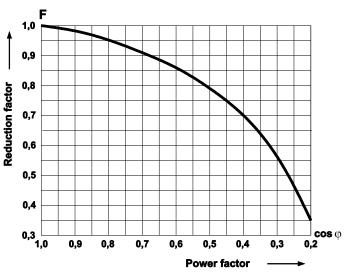
page 2 of 3 2016-10-14

AZ733W

ELECTRICAL CHARACTERISTICS

Electrical life at 250 VAC, resistive load

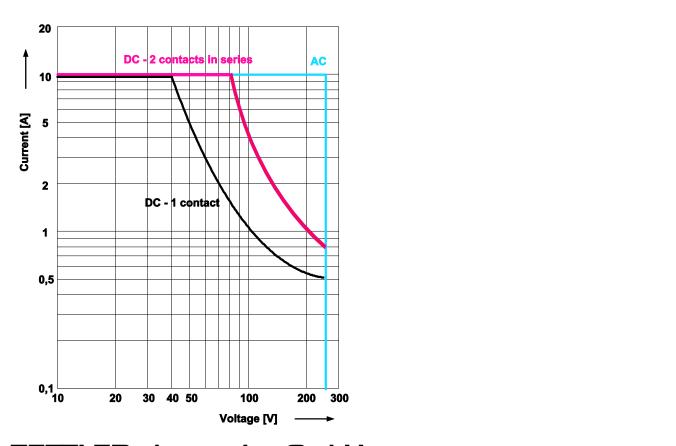




Electrical life reduction factor at inductive AC load

 $\mathbf{N_{cos}}\phi = \mathbf{N} \times \mathbf{F}$

Max. AC/DC resistive load breaking capacity



ZETTLER electronics GmbH - A ZETTLER GROUP Company

Junkersstr. 3, D-82178 Puchheim, Germany

phone: +49 89 800 97-0 fax: +49 89 800 97-200

office@ZETTLERelectronics.com www.ZETTLERelectronics.com

This product specification to be used only together with the application notes which can be downloaded from www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf