# POLARIZED DIP RELAY SINGLE SIDE STABLE

### **FEATURES**

- Low profile for compact board spacing
- DC coils to 48 VDC
- High sensitivity, 96 mW pickup
- · Life expectancy to 20 million operations
- High switching capacity, 60 W, 250 VA
- Fits standard 16 pin IC socket
- Minimum switching load 10 mV, 10 µA
- · Epoxy sealed
- Meets FCC Part 68.302 1500 V lightning surge
- Meets FCC Part 68.304 1000 V dielectric
- UL, CUR file E43203

### CONTACTS

Arrangement	DPDT (2 Form C) Bifurcated crossbar contacts		
Ratings	Resistive load: Max. switched power: 60 W or 250 VA Max. switched current: 3 A Max. switched voltage: 220 VDC* or 250 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.		
Rated Load UL	2 A at 30 VDC resistive 0.5 A at 60 VDC resistive 1 A at 120 VAC resistive		
Material	Gold plated silver against palladium silver. Gold plated palladium silver against palladium silver (Suffix "A")		
Resistance	< 50 milliohms initially		

### COIL

Power	
At Pickup Voltage (typical)	Standard coil: 128 mW Sensitive coil: 96 mW
Max. Continuous Dissipation	0.9 W at 20°C (68°F)
Temperature	Max. 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. Relay has fixed coil polarity.
- 4. For complete isolation between the relay's magnetic fields, it is recommended that a .197" (5.0 mm) space be provided between adjacent relays.
- 5. Relay adjustment may be affected if undue pressure is exerted on relay case.
- 6. Specifications subject to change without notice.

# ZETTLER electronics GmbH - A ZETTLER GROUP Company

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### GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 2 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 2 A, 30 VDC or 1 A, 125 VAC 2 x 10 <sup>6</sup> at 1 A, 30 VDC or 0.5 A, 125 VAC		
Operate Time (typical)	3 ms at nominal coil voltage		
Release Time (typical)	2 ms at nominal coil voltage (with no coil suppression)		
Bounce (typical)	3 ms		
Dielectric Strength (at sea level)	1500 Vrms contact to coil 1500 Vrms between contact sets 1000 Vrms across contacts Meets FCC Part 68.302 lightning surge Meets FCC Part 68.304 V dielectric		
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH		
Dropout	Greater than 10% of nominal coil voltage		
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 85°C (185°F)		
Vibration	50 g at 10–500 Hz		
Shock	50 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	5 grams		

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

# AZ832

### RELAY ORDERING DATA

STANDARD	STANDARD COIL					
COIL SPECIFICATIONS						
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COIL SPECIFICATIONS				
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	ORDER NUMBER*
3	6.4	45	2.4	AZ832-2C-3DE
5	10.6	125	4.0	AZ832–2C–5DE
6	12.7	180	4.8	AZ832-2C-6DE
9	19.1	405	7.2	AZ832-2C-9DE
12	25.5	720	9.6	AZ832–2C–12DE
24	50.9	2,880	19.2	AZ832–2C–24DE
48	101.8	11,520	38.4	AZ832–2C–48DE

### NON-SENSITIVE COIL

COIL SPECIFICATIONS				
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	ORDER NUMBER*
3	5.7	36	2.25	AZ832-2C-3DME
5	9.2	95	3.75	AZ832–2C–5DME
6	11.0	150	4.5	AZ832–2C–6DME
12	23.2	600	9.0	AZ832-2C-12DME
24	44.6	2,210	18.0	AZ832–2C–24DME
48	93.7	9,750	36.0	AZ832-2C-48DME

### SENSITIVE COIL

COIL SPECIFICATIONS				
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	ORDER NUMBER*
5	12.3	167	4.0	AZ832–2C–5DSE
6	14.5	240	4.8	AZ832–2C–6DSE
9	21.0	540	7.2	AZ832-2C-9DSE
12	29.0	960	9.6	AZ832–2C–12DSE
24	57.0	3,840	19.2	AZ832–2C–24DSE

\*Add suffix "A" for gold plated palladium silver against palladium silver contact material.





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