AZ755_

20 AMP MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- Low cost
- Epoxy sealed version available
- UL, CUR file E44211
- TÜV certificate R50129286

CONTACTS

Arrangement	SPDT (1 Form C) SPST (1 Form A, 1 Form B)					
Ratings	Resistive load:					
	Max. switched power: 480 W or 5540 VA Max. switched current: 20 A Max. switched voltage: 150 VDC* or 420 VAC					
	* Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.					
Rated Load UL, CUR	20 A at 125 VAC, general use, 50k cycles [1] 16 A at 240 VAC, general use, 100k cycles [1][2] 20 A at 24 VDC, resistive, 50k cycles [2] 20 A at 24 VDC, resistive, 20k cycles [1] 16 A at 24 VDC, resistive, 50k cycles [1][2] 1 HP (8 FLA) at 240 VAC, 100k cycles [1][2] 1 Form A 20 A at 277 VAC, resistive, 50k cycles [2] 20 A at 277 VAC, resistive, 20k cycles [1] 16 A at 277 VAC, resistive, 50k cycles [1] 12 A at 277 VAC, resistive, 100k cycles [1][2] 12 A at 277 VAC, resistive, 100k cycles [1][2] 12 A at 24 VDC, resistive, 100k cycles [1][2] 10 FLA / 60 LRA, 250 VAC, 30k cycles [2] TV-8 at 125 VAC, 85°C					
	1 Form B 12 A at 24 VDC, resistive, 50 k cycles [2]					
	1Form C 16 A at 277 VAC, resistive, 50 k cycles (N.O.) [2] 16 A at 277 VAC, resistive, 6 k cycles (N.C.) [2] All values at 85°C ambient					
τüν	1 Form A 16 A at 250 VAC, resistive, 70°C, 30k cycles [1][2] 13 A at 420 VAC, resistive, 70°C, 30k cycles [1] 16 A at 30 VDC, resistive, 70°C, 30k cycles [1][2]					
Material	Silver cadmium oxide [1], silver tin oxide [2]					
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)					

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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HL : FU 200 24 FL : FU 200 24 PL : FU 200 2

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 5×10^{6} 5×10^{4} at 16 A 250 VAC Res. 2×10^{4} at 20 A 277 VAC Res.		
Operate Time (typical)	8 ms at nominal coil voltage		
Release Time (typical)	5 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 85°C (185°F) -40°C (-40°F) to 105°C (221°F)		
Vibration	0.062" (1.5 mm) 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	18.5 grams		
Packing unit in pcs	50 per plastic tray / 500 per carton box		

COIL

Power				
At Pickup Voltage (typical)	270 mW			
Max. Continuous Dissipation	1.9 W at 20°C (68°F) ambient			
Temperature Rise (at nominal voltage)	34°C (61°F) at nominal coil voltage			
Temperature	Max. 130°C (266°F) Class B Max. 155°C (311°F) Class F			

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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

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RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm	Form A (SPST)	Form C (SPDT)
5	3.6	9.4	47 ±10%	AZ755–1A–5D	AZ755–1C–5D
6	4.3	11.4	69 ±10%	AZ755–1A–6D	AZ755–1C–6D
9	6.5	17.4	155 ±10%	AZ755–1A–9D	AZ755–1C–9D
12	8.6	22.8	275 ±10%	AZ755–1A–12D	AZ755–1C–12D
18	13.0	27.9	620 ±10%	AZ755–1A–18D	AZ755–1C–18D
24	17.3	45.7	1,100 ±15%	AZ755–1A–24D	AZ755–1C–24D
48	34.6	89.0	4,400 ±15%	AZ755–1A–48D	AZ755–1C–48D
60	43.2	115.3	6,880 ±15%	AZ755–1A–60D	AZ755–1C–60D
110 **	73.9	170.5	22,900 ±15%	AZ755–1A–110D	AZ755–1C–110D

* "1A" or "1C" denote silver cadmium contacts.

Substitute "1B" in place of "1A" or "1C" for 1 Form B relay.

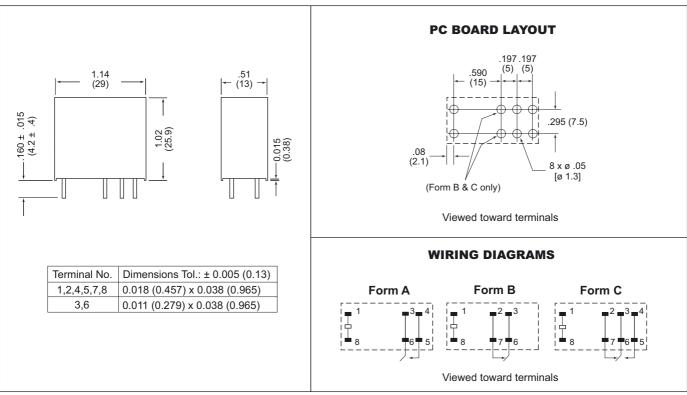
Add suffix "E" at the end of order number for sealed version.

Add suffix "A" at the end of order number for silver tin oxide contacts.

Add suffix "F at the end of order number for Class F.

** 110 VDC coil is not TÜV approved.

MECHANICAL DATA



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

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