## PCN Notice

Discontinuation date of silver cadmium oxide contacts: 31.12.2017

# AZ725.

## 20 AMP MINIATURE POWER RELAY

### FEATURES

- Dielectric strength 5000 Vrms
- 20 Amp switching single pole contacts
- High inrush capability: 120 Amp (20 ms) (1 Form A only)
- Isolation spacing greater than 8mm
- Proof tracking index (PTI/CTI) 250
- Reinforced insulation, EN 60730-1 (VDE 0631, part 1) EN 60335-1 (VDE 0700, part 1)
- UL, CUR file E43203
- VDE file 40013003 (only AgCdO contact material)



#### CONTACTS

Power

(typical)

Dissipation

Temperature

At Pickup Voltage

Max. Continuous

Temperature Rise

Arrangement	SPST (1 Form C) SPST (1 Form A and 1 Form B)
Ratings	Resistive load:
	Max. switched power: 600 W or 5000 VA Max. switched current: 20 A Max. switched voltage: 300 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	20 A at 250 VAC, resistive [1][2]
VDE	1 Form C 16 A at 250VAC, resistive, 80k cycles [1]
	1 Form A / 1 Form B 16 A at 250VAC, resistive, 100k cycles [1]
Material	Silver cadmium oxide* [1], silver tin oxide [2]
	*Note: Silver cadmium oxide will be discontinued on 31,12,2017.
Resistance	< 30 milliohms initially (at 6 V, 1 A, voltage drop method)
COIL	

270 mW

## **GENERAL DATA**

Life Expectancy Mechanical Electrical	Minimum operations $3 \times 10^7$ 1 x 10 <sup>5</sup> at 16 A 250 VAC Res.		
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.)	4000 Vrms coil to contact 1000 Vrms between open contacts		
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH		
Insulation (according to DIN VDE 0110, IEC 60664-1)	C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC		
Dropout	Greater than 10% of nominal coil voltage		
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 70°C (158°F)		
Vibration	0.062" (1.5 mm) DA at 10–55 Hz		
Shock	20 g		
Enclosure	P.B.T. polyester, UL94 V-0		
Terminals	Tinned copper alloy		
Max. Solder Temp.	270°C (518°F)		
Max. Solder Time	5 seconds		
Weight	19 grams		
Packing unit in pcs	50 per plastic tray / 1000 per carton box		
NOTES			

### 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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1.7 W at 20°C (68°F) ambient

32°C (58°F) nominal coil voltage

Max. 130°C (266°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**

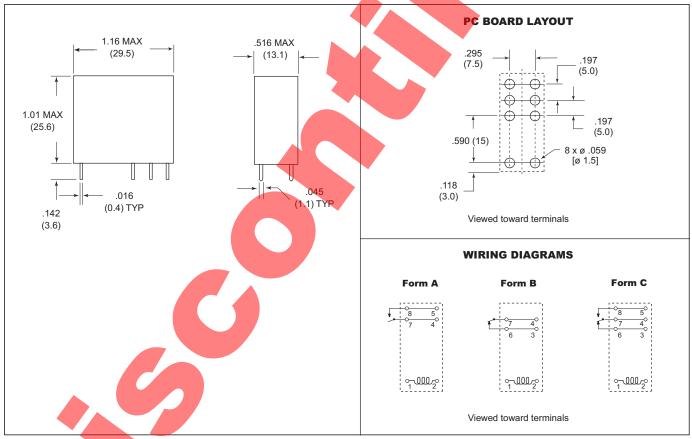
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	Form A (SPST)	Form C (SPDT)
5	3.5	8.85	49	AZ725–1A–5D	AZ725–1C–5D
6	4.2	10.6	68	AZ725–1A–6D	AZ725-1C-6D
12	8.4	21.2	260	AZ725–1A–12D	AZ725-1C-12D
24	16.8	42.5	1,100	AZ725–1A <mark>-24D</mark>	AZ725-1C-24D
48	33.6	85.0	4,400	AZ725–1 <mark>A–48</mark> D	AZ725–1C–48D
60	42.0	106.2	7,000	AZ725–1A–60D	AZ725–1C–60D
110	77.0	188.0	20,500	AZ725–1A–110D	AZ725–1C–110D

\* Substitute "1B" in place of "1A" for Form B contacts.

Add suffix "E" to "1A" or "1C" for silver tin oxide contacts

Note: Silver cadmium oxide will be discontinued on 31.12.2017.

#### **MECHANICAL DATA**



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

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