

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

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

Power	
At Pickup Voltage (typical)	270 mW
Max. Continuous Dissipation	1.7 W at 20°C (68°F) ambient
Temperature Rise	32°C (58°F) nominal coil voltage
Temperature	Max. 130°C (266°F)

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 3 x 10 ⁷ 1 x 10 ⁵ 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

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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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-24D	AZ725-1C-24D
48	33.6	85.0	4,400	AZ725-1A-48D	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

PC BOARD LAYOUT

WIRING DIAGRAMS

Form A

Form B

Form C

Viewed toward terminals

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