AZ697 _____ 10 AMP MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- Low cost
- Epoxy sealed version available
- 10 Amp switching single pole contacts
- UL TV-5
- Isolation spacing greater than 8mm
- UL Class B insulation system, Class F available
- UL, CUR file E44211; TÜV file R50129288

CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 300 W or 2770 VA Max. switched current: 10 A Max. switched voltage: 150* VDC or 380 VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load	
UL, CUR	TV-5 at 120 VAC [1][2][3] 10 A at 277 VAC, General Use [1] 10 A 30 VDC, Resistive [1] 1/ ₃ HP at 250 VAC [1] 1/ ₄ HP at 125 VAC N.O. [1] 10 A at 277 VAC, General Use, 100k cycles [2][3] 10 A at 30 VDC, Resistive, 100k cycles [2][3] 1/3 HP at 250 VAC, 100k cycles [2][3] 1/4 HP at 125 VAC, 100k cycles [2][3]
ΤÜV	10 A at 250 VAC, 30 VDC Resistive 100k cycles [1][2] 10 A at 250 VAC, 30 VDC Resistive 50k cycles [3]
Material	Silver cadmium oxide [1], silver nickel [2], silver tin oxide [3], Gold plating available
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	257 mW
Max. Continuous Dissipation Temperature Rise	1.9 W at 20°C (68°F) ambient (Class B) 2.5 W at 20°C (68°F) ambient (Class F) 34° C (61°F) at nominal voltage
Temperature	Max. 130°C (266°F) Class B Max. 155° C (311° F) Class F



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10^7 1 x 10^5 at 10 A 240 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 90°C (194°F) Class B -40°C (-40°F) to 110°C (230°F) Class F -40°C (-40°F) to 130°C (266°F) Class B -40°C (-40°F) to 155°C (311°F) Class F		
Vibration	0.062" 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 grams		

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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RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance	Form A (SPST)	Form C (SPDT)
3	2.1	5.7	17 ±10%	AZ697–1A–3D	AZ697-1C-3D
5	3.5	9.4	47 ±10%	AZ697–1A–5D	AZ697–1C–5D
6	4.2	11.4	68 ±10%	AZ697–1A–6D	AZ697–1C–6D
9	6.3	17.4	160 ±10%	AZ697-1A-9D	AZ697-1C-9D
12	8.4	22.8	275 ±10%	AZ697–1A–12D	AZ697–1C–12D
18	12.6	27.9	650 ±10%	AZ697–1A–18D	AZ697–1C–18D
24	16.8	45.7	1100 ±15%	AZ697–1A–24D	AZ697–1C–24D
48	33.6	89.0	4170 ±15%	AZ697–1A–48D	AZ697-1C-48D
60	42.0	115.3	7000 ±15%	AZ697-1A-60D	AZ697-1C-60D
110	79.3	170.5	22900 ±15%	AZ697-1A-110D	AZ697-1C-110D

*For silver nickel contacts change "-1A" or "-1C" to "-1AB" or "-1CB". For silver tin oxide contacts change "-1A" or "-1C" to "-1AE" or "-1CE". For epoxy seal change "D" to "DE". For gold plating change "D" or "DE" to "DA" or "DEA". For Class F insulation add suffix "F" to part number. When suffix "E" is specified for Epoxy Seal, refer to AZ "Relay Technical Notes" on AZ website - Product Resources. Consult factory for other PCB process conditions that may apply.

HARDWARE ORDERING DATA

DESCRIPTION	ORDER NUMBER	DESCRIPTION	ORDER NUMBER
Socket	ST482–U1	Retainer	ST482–2

MECHANICAL DATA



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