

# AZ732

## MINIATURE POWER RELAY

### FEATURES

- Dielectric strength 4000 Vrms coil to contact
- Isolation spacing greater than 8 mm
- Approvals/Standards include: UL, VDE, IEC, SEMKO, CEE
- Double pole — Forms A, B, C, available
- 10 Amp switching
- SLIMPAK™ version saves board space
- Epoxy sealed version for automatic wave soldering and cleaning
- UL, CUR file E44211; VDE 4120–4940–4002/A1



### CONTACTS

<b>Arrangement</b>	DPDT (2 Form C)
<b>Ratings</b>	Resistive load: Max. switched power: 300 W or 2770 VA Max. switched current: 10 A, 51 A for 2 ms Max. switched voltage: 150* VDC or 400 VAC <b>UL Rating:</b> 10 A at 30 VDC or 277 VAC 1/8 HP 120 VAC motor load *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
<b>Material</b>	Silver cadmium oxide
<b>Resistance</b>	< 30 milliohms initially (at rated current, voltage drop method)

### COIL

<b>Power</b> <b>At Pickup Voltage (typical)</b> <b>Max. Continuous Dissipation</b> <b>Temperature Rise</b>	Standard coil: 337 mW Sensitive coil: 250 mW 1.9 W at 20°C (68°F) ambient 1.4 W at 40°C (104°F) ambient Standard: 40°C (72°F) at nominal coil voltage Sensitive: 32°C (58°F) at nominal coil voltage
<b>Temperature</b>	Max. 110°C (230°F)

### NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Unsealed relays should not be dip cleaned.
4. Specifications subject to change without notice.

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 30 million 1 x 10 <sup>5</sup> at 10 A 30 VDC 1 x 10 <sup>5</sup> at 10 A 115 VAC
<b>Operate Time (typical)</b>	7 ms at nominal coil voltage
<b>Release Time (typical)</b>	2 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	4000 Vrms contacts to coil 2500 Vrms contact to contact 1000 Vrms between open contacts
<b>Insulation Resistance</b>	10,000 megohms min. at 20°C, 500 VDC, 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature</b> <b>Operating</b> <b>Storage</b>	At nominal coil voltage Standard: -55°C (-67°F) to 70°C (158°F) Sensitive: -55°C (-67°F) to 80°C (176°F) Both: -55°C (-67°F) to 110°C (230°F)
<b>Vibration</b>	0.062" DA at 10–55 Hz
<b>Shock</b>	20 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	20 grams

**AMERICAN ZETTLER, INC.**

[www.azettler.com](http://www.azettler.com)

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7/26/02W

# AZ732

## RELAY ORDERING DATA

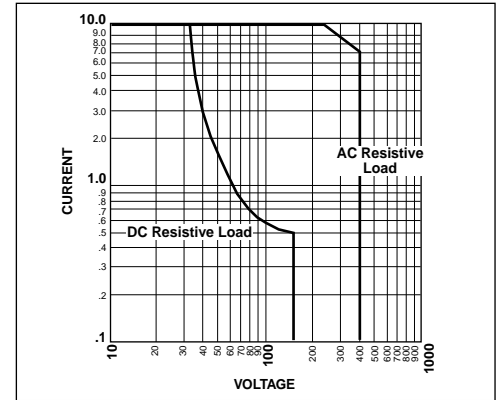
STANDARD RELAYS: 2 Form C (DPDT) Contacts					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC		
5	8	38	3.5	AZ732-125-2	AZ2732-125-2
6	10	58	4.2	AZ732-112-2	AZ2732-112-2
12	19	215	8.4	AZ732-08-2	AZ2732-08-2
24	35	740	16.8	AZ732-560-2	AZ2732-560-2
48	74	3,200	33.6	AZ732-04-2	AZ2732-04-2
SENSITIVE RELAYS: 2 Form C (DPDT) Contacts					
5	9	47	3.5	AZ732-118-52	AZ2732-118-52
6	11	70	4.2	AZ732-509-52	AZ2732-509-52
12	21	270	8.4	AZ732-521-52	AZ2732-521-52
24	43	1,100	16.8	AZ732-053-52	AZ2732-053-52
48	86	4,400	33.6	AZ732-510-52	AZ2732-510-52

\* Substitute "4 or 54," "6 or 56" in place of "2 or 52" to indicate 2 Form A and 2 Form B respectively.

## HARDWARE ORDERING DATA

DESCRIPTION	ORDER NUMBER
Socket	ST484-U1
Retaining Clip	ST482-2

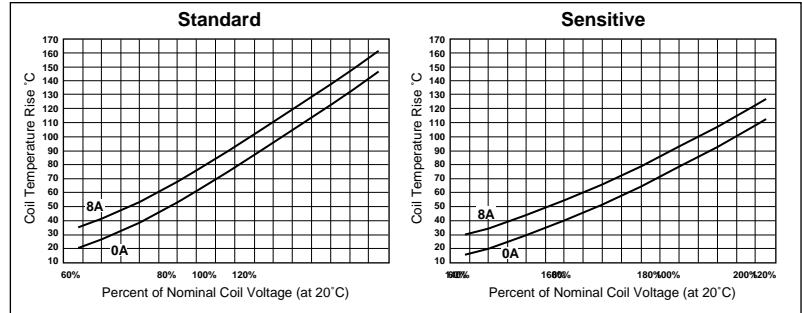
## Maximum Switching Capacity



## INTERNATIONAL APPROVALS

Passed International Electrical Code IEC 380	
<b>Germany</b>	VDE 0860/8.81 paragraphs 10, 14 VDE 0806/8.81 paragraphs 7, 11, 15, 16, 29 VDE 0631/9.77 paragraphs 9, 12, 14 VDE 0730/T.1/3.72 paragraph 22 VDE 0435/9.72 (with production monitoring)
<b>U.S.A.</b>	UL File E44211

## Coil Temperature Rise



## MECHANICAL DATA

### PC BOARD LAYOUT

Viewed toward terminals

### HARDWARE

### WIRING DIAGRAMS

**2 FORM C (DPDT)**

**2 FORM B (DPST-NC)**

**2 FORM A (DPST-NO)**

Viewed toward terminals

### PC BOARD LAYOUT

Viewed toward terminals

Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm .010$ "

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