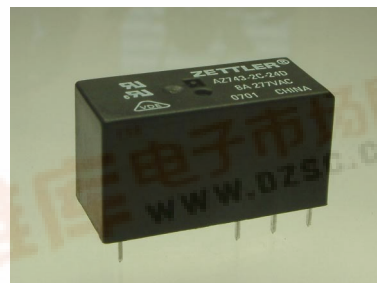


# AZ743

## 10 AMP DPDT MINIATURE POWER RELAY

### FEATURES

- Dielectric strength 5000 Vrms
- Low cost
- Epoxy sealed version available
- 10 Amp switching — double pole contacts
- Isolation spacing greater than 10 mm
- Reinforced insulation, EN 60730-1 (VDE 0631, part 1), EN 60335-1 (VDE 0700, part 1)
- UL, CUR file E44211
- VDE file 40006031



### CONTACTS

<b>Arrangement</b>	DPST (2 Form A, 2 Form B) DPDT (2 Form C)
<b>Ratings</b>	Resistive load: Max. switched power: 240 W or 2500 VA Max. switched current: 10 A Max. switched voltage: 150 VDC* or 400 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
<b>Rated Load</b> <b>UL, CUR</b>	10 A at 250 VAC Resistive, 30k cycles (N.O.) [1] 10 A at 250 VAC Resistive, 6k cycles (N.C.) [1] 8 A at 277 VAC Resistive, 30k cycles [1] 8 A at 277 VAC Resistive, 75k cycles [2] 8 A at 277 VAC Resistive, 100k cycles [3] 1/2 HP at 250 VAC (2 Form A) [1] 1/4 HP at 125 VAC (2 Form A) [1]
<b>VDE</b>	8 A at 250 VAC Resistive, [1] [2] and [3]
<b>Material</b>	Silver cadmium oxide [1], silver tin oxide [2] or silver nickel [3]. Gold plating available
<b>Resistance</b>	< 50 milliohms initially

### COIL

<b>Power</b>	
<b>At Pickup Voltage (typical)</b>	190 mW
<b>Max. Continuous Dissipation</b>	1.7 W at 20°C (68°F) ambient
<b>Temperature Rise</b>	26°C (47°F) at nominal coil voltage
<b>Max. Temperature</b>	130°C (266°F)

### 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.

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 8 A 250 VAC Res.
<b>Operate Time (typical)</b>	7 ms at nominal coil voltage
<b>Release Time (typical)</b>	4 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength</b> <b>(at sea level for 1 min.)</b>	5000 Vrms coil to contact 3000 Vrms between contact sets 1000 Vrms between open contacts
<b>Insulation Resistance</b>	1000 megohms min. at 500 VDC, 20°C, 50% RH
<b>Insulation</b> <b>(according to</b> <b>DIN VDE 0110,</b> <b>IEC 60664-1)</b>	C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature</b> <b>Operating</b> <b>Storage</b>	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.062" (1.5 mm) DA at 10–55 Hz
<b>Shock</b>	10 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>	16 grams
<b>Packing unit in pcs</b>	20 per plastic tube / 1000 per carton box

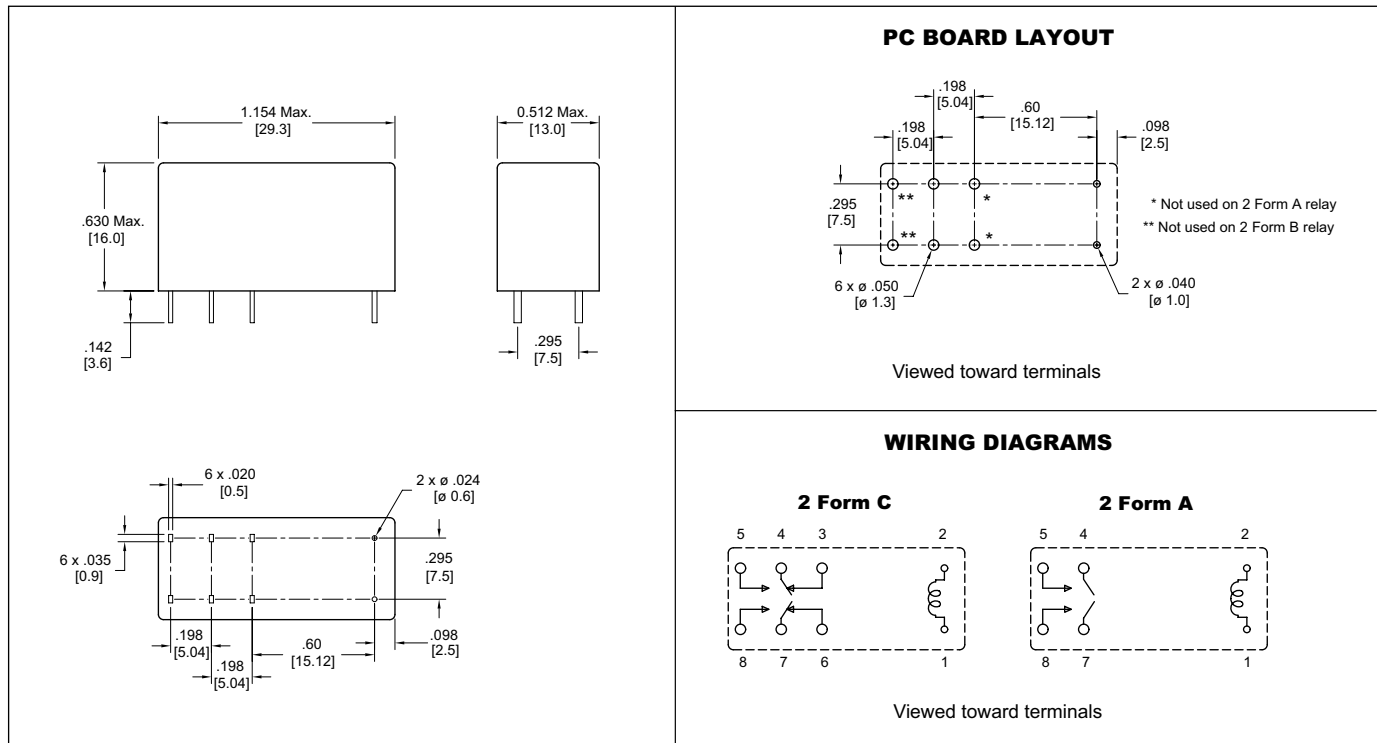
# AZ743

## RELAY ORDERING DATA

COIL SPECIFICATIONS - DC COIL				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	2 Form A	2 Form C
5	3.5	10.2	62	AZ743-2A-5D	AZ743-2C-5D
6	4.2	12.3	90	AZ743-2A-6D	AZ743-2C-6D
9	6.3	18.3	200	AZ743-2A-9D	AZ743-2C-9D
12	8.4	24.7	360	AZ743-2A-12D	AZ743-2C-12D
24	16.8	49.4	1,440	AZ743-2A-24D	AZ743-2C-24D
48	33.6	98.0	5,760	AZ743-2A-48D	AZ743-2C-48D
60	42.0	112.9	7,500	AZ743-2A-60D	AZ743-2C-60D
110	77.0	206.9	25,200	AZ743-2A-110D	AZ743-2C-110D

\* "2A" or "2C" denote silver cadmium oxide contacts.  
 Substitute "2B" in place of "2A" for 2 Form B contacts.  
 Add suffix "E" to "2A" or "2B" or "2C" for silver tin oxide contacts.  
 Add suffix "B" to "2A" or "2B" or "2C" for silver nickel contacts.  
 Add suffix "E" at the end of order number for sealed version.  
 Add suffix "A" at the end of order number for gold plated contacts.

## MECHANICAL DATA



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