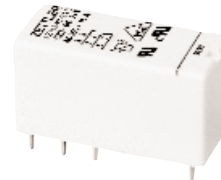


8 A DPDT MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- Low height: 15.7 mm
- Epoxy sealed version available
- 8 Amp switching — double pole contacts
- AC and DC coils
- Isolation spacing greater than 10 mm
- Proof tracking index (PTI/CTI) 250
- Surpasses requirements of VDE 0631/0700
- UL, CUR file E43203; VDE 119918



CONTACTS

Arrangement	DPDT (2 Form C) DPST (2 Form A)
Ratings	Resistive load: Max. switched power: 2 X 240 W or 2000 VA Max. switched current: 2 X 8 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, CUR VDE	8 A at 250 VAC General Use 8 A at 250 VAC
Material	Silver nickel, silver nickel gold plated or silver tin oxide
Resistance	< 100 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	200 mW (DC coil) .422 VA (AC coil)
Max. Continuous Dissipation	1.7 W at 20°C (68°F) ambient 1.7 VA at 20°C (68°F) ambient
Temperature Rise	26°C (47°F) at nominal coil voltage
Max. Temperature	115°C (239°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

Life Expectancy Mechanical Electrical	Minimum operations 3 x 10 ⁷ 1 x 10 ⁵ at 8 A 240 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.)	5000 Vrms coil to contact 2500 Vrms between contact sets 1000 Vrms between open contacts
Insulation Resistance	10 ⁵ megohms min. at 500 VDC, 20°C, 50% RH
Insulation (according to DIN VDE 0110, IEC 60664-1)	B250 at 2 Form C, unsealed C250 at other relay versions Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC
Dropout DC coils AC coils	Greater than 10% of nominal coil voltage Greater than 15% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) - DC coils -40°C (-40°F) to 70°C (158°F) - AC coils -40°C (-40°F) to 105°C (221°F)
Vibration	Break contacts: 5 g at 20...500 Hz Make contacts: 20 g at 30...500 Hz
Shock	20 g
Enclosure	P.B.T. polyester, UL-94 : V0
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	14 grams

AZ742

RELAY ORDERING DATA

COIL SPECIFICATIONS - DC COIL				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	Unsealed	Sealed
3	2.1	7.6	22	AZ742-2C-3D	AZ742-2C-3DE
5	3.5	12.7	60	AZ742-2C-5D	AZ742-2C-5DE
6	4.2	15.3	90	AZ742-2C-6D	AZ742-2C-6DE
9	6.3	22.9	200	AZ742-2C-9D	AZ742-2C-9DE
12	8.4	30.6	360	AZ742-2C-12D	AZ742-2C-12DE
18	12.6	45.9	710	AZ742-2C-18D	AZ742-2C-18DE
24	16.8	61.2	1,440	AZ742-2C-24D	AZ742-2C-24DE
36	25.2	92.0	3,140	AZ742-2C-36D	AZ742-2C-36DE
48	33.6	122.0	5,700	AZ742-2C-48D	AZ742-2C-48DE
60	42.0	153.0	7,500	AZ742-2C-60D	AZ742-2C-60DE
110	77.0	280.0	25,200	AZ742-2C-110D	AZ742-2C-110DE

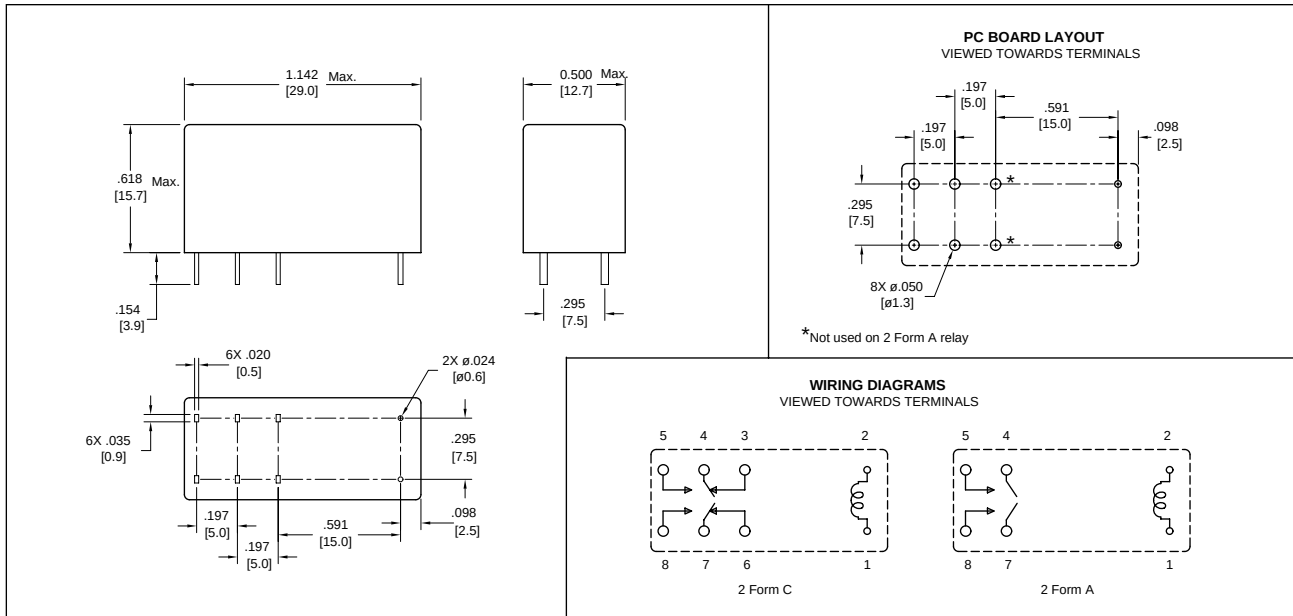
COIL SPECIFICATIONS - AC COIL					ORDER NUMBER*	
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Current mA $\pm 10\%$	Coil Resistance Ohm $\pm 10\%$	Unsealed	Sealed
24	18.0	36.0	31.3	400	AZ742-2C-24A	AZ742-2C-24AE
48	36.0	72.0	15.6	1,550	AZ742-2C-48A	AZ742-2C-48AE
60	45.0	90.0	12.5	2,600	AZ742-2C-60A	AZ742-2C-60AE
110	82.5	165.0	6.8	8,900	AZ742-2C-110A	AZ742-2C-110AE
115	86.3	172.5	6.5	9,600	AZ742-2C-115A	AZ742-2C-115AE
120	90.0	180.0	6.3	10,200	AZ742-2C-120A	AZ742-2C-120AE
220	165.0	330.0	3.4	35,500	AZ742-2C-220A	AZ742-2C-220AE
230	172.5	345.0	3.3	38,500	AZ742-2C-230A	AZ742-2C-230AE
240	180.0	360.0	3.1	42,500	AZ742-2C-240A	AZ742-2C-240AE

* "2C" : 2 Form C, contact material AgNi; "2A" : 2 Form A, contact material AgNi;

"2CG" : 2 Form C, contact material AgNi gold plated; "2AG" : 2 Form A, contact material AgNi gold plated.

"2CE" : 2 Form C, contact material AgSnO₂; "2AE" : 2 Form A, contact material AgSnO₂.

MECHANICAL DATA



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

HARDWARE

For P.C.B. mount:	Socket EC50	Retaining Clip MP16 / MH16
For DIN rail mount:	Socket ES50	Retaining Clip MS16

ZETTLER electronics GmbH

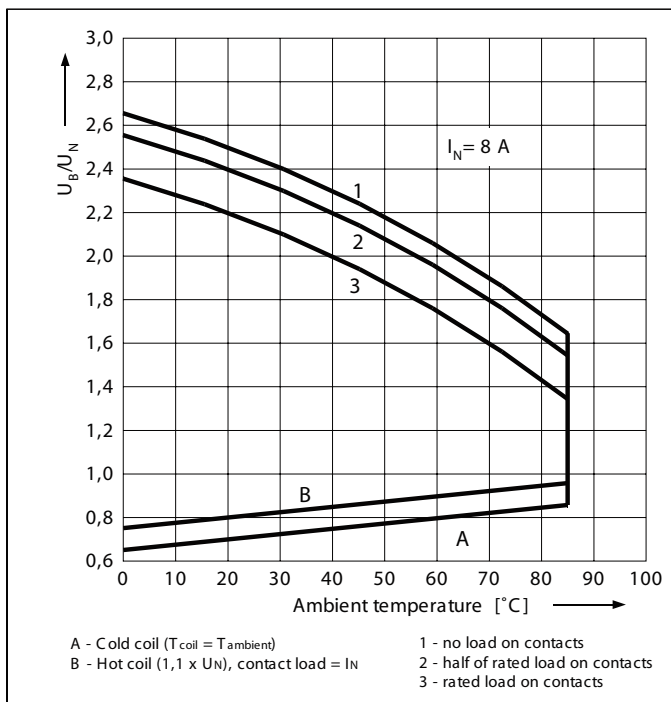
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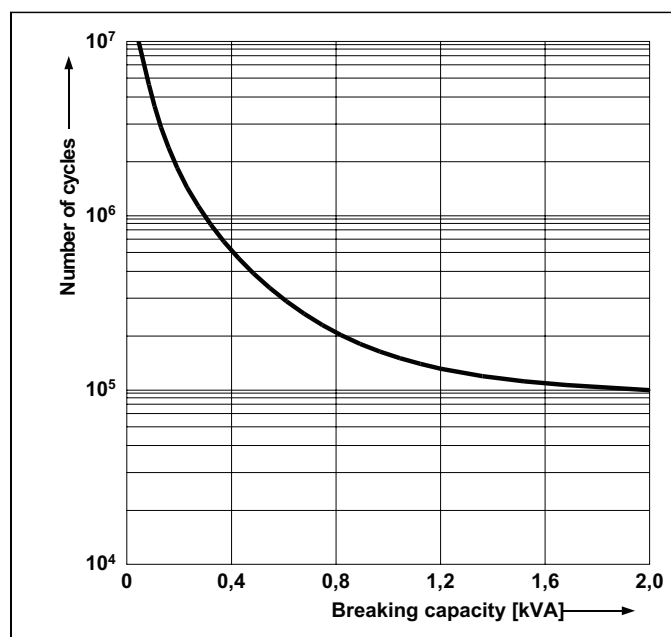
office@ZETTLERelectronics.com
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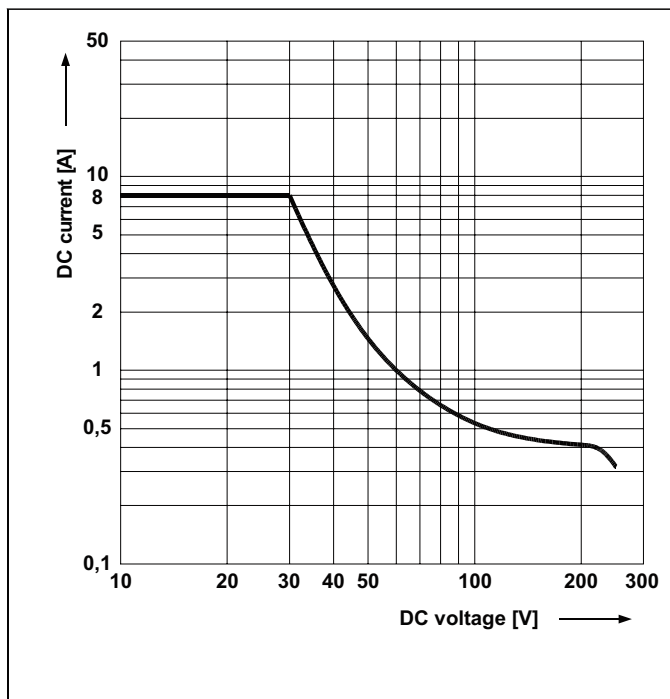
DC - Coil operating range



Electrical life at 250 VAC, resistive load



Max. DC resistive load breaking capacity



Electrical life reduction factor at inductive AC load

