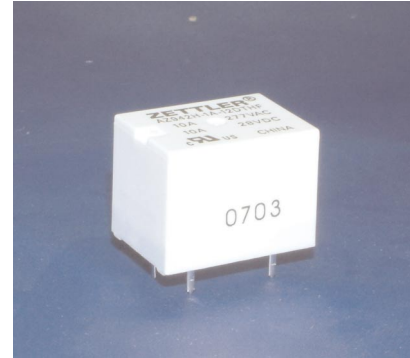


AZ942H

12 AMP MINIATURE PC BOARD RELAY

FEATURES

- Extremely low cost
- 12 Amp switching capacity
- Proof tracking index (PTI/CTI) 250
- Clearance and creepage distance >2.5 mm
- Class F insulation (155 °C) available
- Meets IEEE 587 6 kV lightning surge
- UL, CUR file E43203,
- VDE file 40010958



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load
Form A	Max. switched power: 196 W or 2770 VA Max. switched current: 12 A Max. switched voltage: 150 VDC* or 300 VAC
Form C	Max. switched power: 196 W or 1939 VA Max. switched current: 12 A Max. switched voltage: 150 VDC* or 300 VAC
	* Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR Form A	10 A at 28 VDC, 100k cycles 10 A at 277 VAC, 25k cycles
Form C	7 A at 28 VDC, 100k cycles 7 A at 277 VAC, 100k cycles 12 A at 125 VAC, 100k cycles (N.O.) 12 A at 125 VAC, 50k cycles (N.C.)
VDE	10 A at 250 VAC, 50k cycles (N.O.) 7 A at 250 VAC, 50k cycles (N.C.)
Material	Silver tin oxide
Resistance	<100 milliohms initially

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 10A 250 VAC Res.
Operate Time (typical)	10 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.)	3000 Vrms contact to coil 1000 Vrms across contacts
Insulation Resistance	100 megohms min. at 20°C, 500 VDC, 50% RH
Insulation (according to DIN VDE 0110, IEC 60664-1)	Overvoltage category: II Pollution degree: 2 Nominal voltage: 250 VAC
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage Class B: -40°C(-40°F) to 70°C(158°F) Class F: -40°C(-40°F) to 85°C(185°F) -40°C(-40°F) to 105°C(221°F)
Vibration	0.062" (1.5 mm) DA at 10–55Hz
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	13 g
Packing unit in pcs	20 per plastic tube / 1000 per carton box

COIL

Power At Pickup Voltage (typical)	230 mW
Max Continuous Dissipation	Class B: 1.7 W at 20°C (68°F) ambient Class F: 2.2 W at 20°C (68°F) ambient
Temperature Rise	25°C (45°F) at nominal coil voltage
Temperature	Class B: Max. 130°C (266°F) Class F: Max. 155°C (311°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.

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AZ942H

RELAY ORDERING DATA

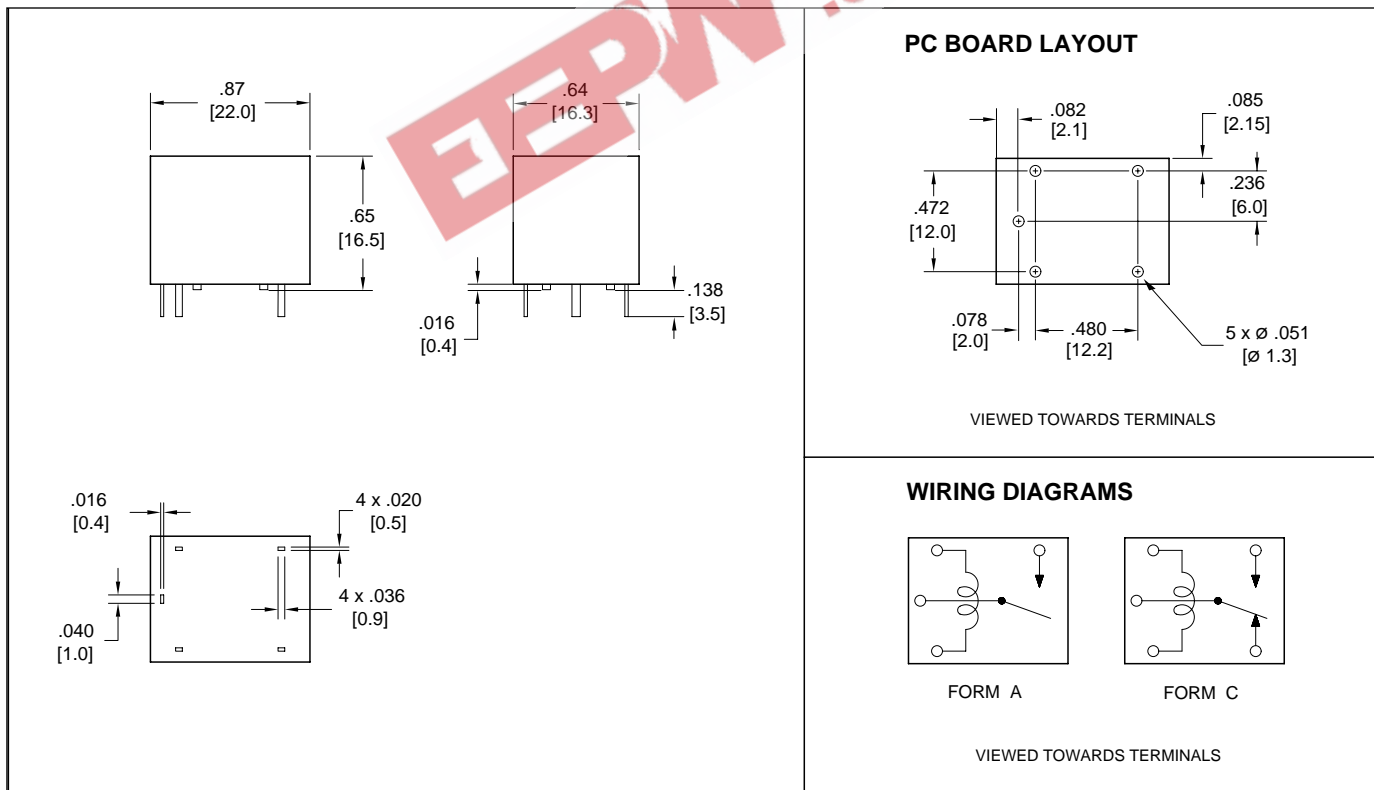
STANDARD RELAYS				ORDER NUMBER*	
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	Form A (SPST-N.O.)	Form C (SPDT)
3	2.4	6.5	25	AZ942H-1A-3DTH	AZ942H-1C-3DTH
5	4.0	11.0	70	AZ942H-1A-5DTH	AZ942H-1C-5DTH
6	4.8	13.0	100	AZ942H-1A-6DTH	AZ942H-1C-6DTH
9	7.2	20.0	225	AZ942H-1A-9DTH	AZ942H-1C-9DTH
12	9.6	26.0	400	AZ942H-1A-12DTH	AZ942H-1C-12DTH
18	14.4	39.0	900	AZ942H-1A-18DTH	AZ942H-1C-18DTH
24	19.2	52.0	1,600	AZ942H-1A-24DTH	AZ942H-1C-24DTH
48	38.4	104.0	6,200	AZ942H-1A-48DTH	AZ942H-1C-48DTH

* Substitute "DETH" in place of "DTH" for epoxy sealed versions. To indicate Class F version, add suffix "F".

IEEE STANDARD 587-1980 (ANSI/IEEE C62.41-1980) SURGE VOLTAGE WITHSTAND RATING

Test	Rating	Description
1.2 x 50 usec positive pulse	6 kV	Contact to coil - 5 pulses
1.2 X 50 usec negative pulse	6 kV	Contact to coil - 5 pulses
0.5 us 100 kHz ring wave	6 kV	Contact to coil - 5 waves

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± 0.010 "

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