AZ942H_

16 AMP MINIATURE PC BOARD RELAY

FEATURES

- Extremely low cost
- 16 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 E44211
- VDE file 40026048

CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)		
Ratings	Resistive load:		
1 Form A	Max. switched power: 280 W or 4000 VA Max. switched current: 16 A Max. switched voltage: 28 VDC or 250 VAC		
1 Form C	Max. switched power: 196 W or 2500 VA Max. switched current: 12 A Max. switched voltage: 28 VDC or 250 VAC		
Rated Load UL	1 Form A 16 A at 250 VAC, resistive, 85°C, 50k cycles [2] 12 A at 250 VAC, resistive, 85°C, 100k cycles [2] 10 A at 277 VAC, resistive, 85°C, 25k cycles [2], [1] 10 A at 28 VDC, resistive, 85°C, 100k cycles [2], [1] 1/2 HP at 125 / 250 VAC [2]		
	1 Form C 16 A at 250 VAC, resistive, 85°C, 50k cycles (N.O.) [2] 12 A at 250 VAC, resistive, 85°C, 100k cycles (N.O.) [2] 12 A at 125 VAC, resistive, 85°C, 100k cycles (N.O.) [2], [1] 12 A at 125 VAC, resistive, 85°C, 100k cycles (N.C.) [2] 7 A at 277 VAC, resistive, 85°C, 100k cycles [2], [1] 7 A at 28 VDC, resistive, 85°C, 100k cycles [2], [1] 1/2 HP at 125 / 250 VAC [2] 4 FLA / 4 LRA at 240 VAC (N.O.) [2] 2 FLA / 4 LRA at 240 VAC (N.C.) [2]		
VDE	1 Form A 10 A at 250 VAC, resistive, 85°C, 50k cycles [2]		
	1 Form C 10 A at 250 VAC, resistive, 85°C, 50k cycles (N.O.) [2] 7 A at 250 VAC, resistive, 85°C, 50k cycles [2]		
Material	Silver cadmium oxide [1] or Silver tin oxide [2]		
Resistance	< 100 milliohms initially		

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	Minimum operations			
Mechanical	1 x 10 ⁷			
Electrical	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	2000 Vrms contact to coil			
(at sea level for 1 min.)	750 Vrms across contacts			
Insulation Resistance	100 megohms min. at 20°C, 500 VDC,			
	50% RH			
Insulation	Overvoltage category: II			
(according to	Pollution degree: 2			
DIN VDE 0110,	Nominal voltage: 250 VAC			
IEC 60664-1)				
Dropout	Greater than 10% of nominal coil voltage			
Ambient Temperature	At nominal coil voltage			
Operating	Class B: -40°C(-40°F) to 70°C(158°F)			
	Class F: -40°C(-40°F) to 85°C(185°F)			
Storage	-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			
Enclosure Terminals	P.B.T. polyester Tinned copper alloy, P.C.			
	1,3			
Terminals	Tinned copper alloy, P.C.			
Terminals Max. Solder Temp.	Tinned copper alloy, P.C. 270°C (518°F)			
Terminals Max. Solder Temp. Max. Solder Time	Tinned copper alloy, P.C. 270°C (518°F) 5 seconds			
Terminals Max. Solder Temp. Max. Solder Time Max. Solvent Temp.	Tinned copper alloy, P.C. 270°C (518°F) 5 seconds 80°C (176°F)			

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	26°C (47°F) at nominal coil voltage		
Temperature	Class B: Max. 130°C (221°F) Class F: Max. 155°C (311°F)		

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AZ942H

RELAY ORDERING DATA

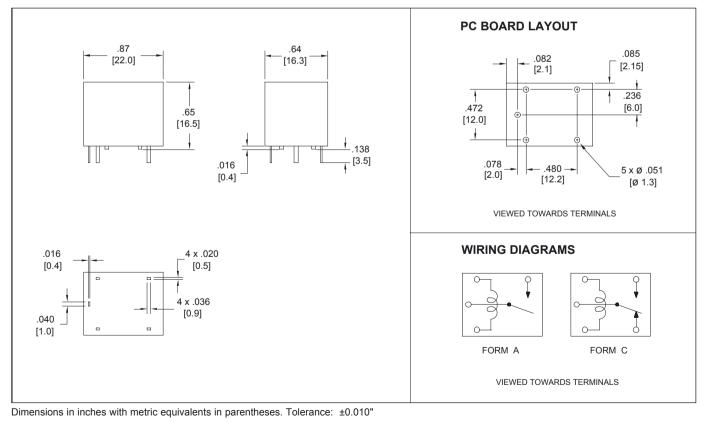
STANDARD REL	AYS				
	COIL SP	ORDER NUMBER*			
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	Form A (SPST-N.O.)	Form C (SPDT)
3	2.4	6.5	25	AZ942H-1A-3D	AZ942H-1C-3D
5	4.0	11.0	70	AZ942H-1A-5D	AZ942H-1C-5D
6	4.8	13.0	100	AZ942H-1A-6D	AZ942H-1C-6D
9	7.2	20.0	225	AZ942H-1A-9D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

* For epoxy sealed version, add suffix "E. For silver tin oxide contacts add suffix "T." 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





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