MINIATURE PC BOARD RELAY

FEATURES

- Subminiature size
- High sensitivity, 110 mW pickup
- Coils to 48 VDC
- Epoxy sealed for automatic wave soldering
- Contacts rated at 3, 6 or 10 Amps
- Life expectancy to 20 million operations
- Extremely low cost
- Class B insulation (130°C) standard
- Class F insulation (155°C) version available
- UL, CUR file E44211
- VDE approved versions available

CONTACTS

Arrangement	SPDT (1 Form C) SPST (1 Form A) 10 A version only				
Ratings Light Duty	Resistive load: Max. switched power: 100 W or 600 VA Max. switched current: 3 A Max. switched voltage: 150* VDC or 300 VAC UL Rating: 2 A at 28 VDC or 300 VAC 1/8 HP 120 VAC 1/10 HP 120/240 VAC (100,000 cyc) 1.2/0.6 A at 120/240 VAC, pilot duty 100,000 cyc 3.0/1.5 A at 120/240 VAC general use 100,000 cyc				
Medium Duty	Max. switched power: 180 W or 1800 VA Max. switched current: 6 A Max. switched voltage: 150* VDC or 300 VAC UL Rating: 6 A at 28 VDC or 300 VAC 1/8 HP 120/240 VAC (100,000 cyc) 1.5/0.8 A at 120/240 VAC, pilot duty 100,000 cyc 3.8/1.9 A at 120/240 VAC general use 100,000 cyc				
Heavy Duty	Max. switched power: 300 W or 2400 VA Max. switched current: 10 A Max. switched voltage: 150* VDC or 300 VAC UL Rating: 10 A at 30 VDC or 120 VAC 1/4 HP 120 VAC, 1/2 HP 250 VAC Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.				
Material	Light duty: Silver Medium duty: Silver nickel Heavy duty: Silver cadmium oxide				
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. Other coil resistances and sensitivities available upon request.
- 4. Unsealed relays should not be dip cleaned.
- 5. Specifications subject to change without notice.



COIL

Power At Pickup Voltage (typical)	Standard coil: 210 mW Sensitive coil: 140 mW Heavy duty: 228 mW (110 mW available)		
Max. Continuous Dissipation	Class B: 2.0 W 20°C (68°F) ambient 1.6 W 40°C (104°F) ambient Class F: 2.5 W 20°C (68°F) ambient 2.1 W 40°C (104°F) ambient		
Temperature Rise	At nominal coil voltage Standard coil: 38°C (68°F) Sensitive coil: 28°C (50°F)		
Temperature	Max. 130°C (266°F) Class B Max. 155°C (311°F) Class F		

GENERAL DATA

Heavy Duty	Minimum operations 100 million operations 3 x 10 ⁵ at 3 A, 120 VAC 1.8 x 10 ⁵ at 6 A, 120 VAC 1 x 10 ⁵ at 10 A, 120 VAC			
Operate Time (typical)	5 ms at nominal coil voltage			
Release Time (typical)	2 ms at nominal coil voltage (with no coil suppression)			
Dielectric Strength (at sea level for 1 min.)	750 Vrms contact to contact 3000 Vrms contact to coil			
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH			
Dropout	Greater than 5% of nominal coil voltage			
Ambient Temperature Operating Storage	At nominal coil voltage -55°C (-67°F) to 90°C (194°F) Class B -55°C (-67°F) to 115°C (239°F) Class F -55°C (-67°F) to 130°C (266°F) Class B -55°C (-67°F) to 155°C (311°F) Class F			
Vibration	0.062" DA at 10-55 Hz, 10 g at 55-110 Hz			
Shock	10 g			
Enclosure	P.E.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	8 grams			



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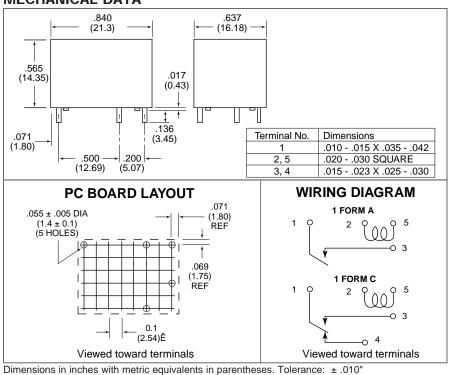
AZ8

RELAY ORDERING DATA

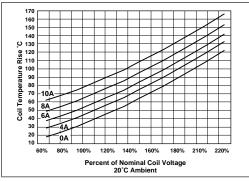
COIL SPECIFICATIONS				ORDER NUMBER*			
STANDARD RELAYS: 1 Form C (SPDT)				LIGHT DUTY (3 Amp contact)		MEDIUM DUTY (6 Amp contact)	
Nominal Coil VDC	Max. VDC Continuous	Resistance ± 10%	Must Operate VDC	Unsealed	Epoxy Sealed	Unsealed	Epoxy Sealed
5	10.6	56	3.25	AZ8-1C-5D	AZ8-1C-5DE	AZ8-1CH-5D	AZ8-1CH-5DE
6	12.6	80	3.90	AZ8-1C-6D	AZ8-1C-6DE	AZ8-1CH-6D	AZ8-1CH-6DE
9	19.0	180	5.85	AZ8-1C-9D	AZ8-1C-9DE	AZ8-1CH-9D	AZ8-1CH-9DE
12	25.0	320	7.80	AZ8-1C-12D	AZ8-1C-12DE	AZ8-1CH-12D	AZ8-1CH-12DE
24	50.0	1,280	15.60	AZ8-1C-24D	AZ8-1C-24DE	AZ8-1CH-24D	AZ8-1CH-24DE
48	87.0	3,800	28.80	AZ8-1C-48D	AZ8-1C-48DE	AZ8-1CH-48D	AZ8-1CH-48DE
SENSITIVE RELAYS: 1 Form C (SPDT)				LIGHT DUTY (3 Amp contact)		MEDIUM DUTY (6 Amp contact)	
Nominal Coil VDC	Max. VDC Continuous	Resistance ± 10%	Must Operate VDC	Unsealed	Epoxy Sealed	Unsealed	Epoxy Sealed
5	12.6	80	3.25	AZ8-1C-5DS	AZ8-1C-5DSE	AZ8-1CH-5DS	AZ8-1CH-5DSE
6	14.8	110	3.90	AZ8-1C-6DS	AZ8-1C-6DSE	AZ8-1CH-6DS	AZ8-1CH-6DSE
9	22.4	250	5.85	AZ8-1C-9DS	AZ8-1C-9DSE	AZ8-1CH-9DS	AZ8-1CH-9DSE
12	30.0	440	7.80	AZ8-1C-12DS	AZ8-1C-12DSE	AZ8-1CH-12DS	AZ8-1CH-12DSE
24	60.0	1,780	15.60	AZ8-1C-24DS	AZ8-1C-24DSE	AZ8-1CH-24DS	AZ8-1CH-24DSE
STANDARD RELAYS: 1 Form C (SPDT)				HEAVY DUTY (10 Amp contact)			
Nominal Coil VDC	Max. VDC Continuous	Resistance ± 10%	Must Operate VDC	Unsealed		Epoxy Sealed	
5	10.6	56	4.0	AZ8-1CT-5D*		AZ8-1CT-5DE*	
6	12.6	80	4.8	AZ8-1CT-6D		AZ8-1CT-6DE	
9	19.0	180	7.2	AZ8-1CT-9D		AZ8-1CT-9DE	
12	25.0	320	9.6	AZ8-1CT-12D		AZ8-1CT-12DE	
24	50.0	1,280	19.2	AZ8-1CT-24D		AZ8-1CT-24DE	
48	87.0	3,800	38.4	AZ8-1CT-48D		AZ8-1CT-48DE	

^{*}To indicate Class F version, add suffix "F". Other coil resistances and sensitivities available. Please contact the factory. Substitute "1AT" in place of "1CT" to indicate 1 Form A.

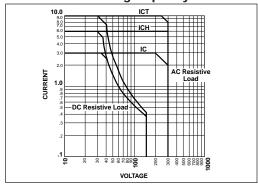
MECHANICAL DATA



Coil Temperature Rise



Maximum Switching Capacity





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