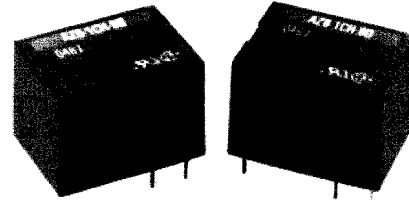


AZ 8 SERIES MINIATURE PCB RELAY

Features

- Subminiature Size for High-Density Packaging
- High Sensitivity, 100mW Pickup
- Extremely Low Cost
- Coil Voltages to 48VDC
- Epoxy Sealed for Automatic Wave Soldering
- Contacts Rated at 3, 6 or 10 Amps
- Life Expectancy to 20 Million Operations
- Class B Insulation Standard with Optional Class F



- UL, CUR File E44211
- VDE Approved Versions Available

Specifications

Contacts	
Arrangement	SPDT 3 or 6A & SPST 10A Versions
Rating	Noninductive load
Light Duty	Max switched power: 100W or 600VA
	Max switched current: 3 Amps
	Max switched voltage: 150*VDC or 300VAC
	UL Rating: 2A @ 28VDC or 300VAC
	1/8 HP @ 120VAC
	1/10 HP @ 120/240 VAC, 100,000 cycles
	1.2/0.6A @ 120/240VAC, Pilot Duty 100,000
	3.0/1.5A @ 120/240VAC General Use 100,000
	Max switched power: 180W or 1,800VA
	Max switched current: 6 Amps
Medium Duty	Max switched voltage: 150*VDC or 300VAC
	UL Rating: 6A @ 28VDC or 300VAC
	1/8 HP @ 120/240VAC, 100,000 cycles
	1.5/0.8A @ 120/240VAC, Pilot Duty 100,000
	3.8/1.9A @ 120/240VAC General Use 100,000
	Max switched power: 300W or 2,400VA
	Max switched current: 10 Amps
	Max switched voltage: 150*VDC or 300VAC
	UL Rating: 10A @ 30VDC or 120VAC
	1/4 HP @ 120VAC
Heavy Duty	1/2 HP @ 250VAC
Material	Light Duty: Silver Medium Duty: Silver Nickel Heavy Duty: Silver Cadmium Oxide
Resistance	100 milliohms initially

Coil	
Power at Pickup Voltage (typical)	Standard coil: 210mW Sensitive coil: 140mW Heavy duty: 228mW (110mw available)
Max Continuous Dissipation	Class B: 2.0W @ 20C (68F) ambient
	1.6W @ 40C (104F) ambient
	Class F: 2.5W @ 20C (68F) ambient
	2.1W @ 40C (104F) ambient
Temperature Rise (at nominal voltage)	Standard: 38C (100F) Sensitive: 28C (82F)

General Data	
Life Expectancy	Minimum operations
Mechanical	100,000,000
Electrical (light duty)	300,000 @ 3A, 120VAC
	180,000 @ 6A, 120VAC
	100,000 @ 10A, 120VAC
Operate Time	5ms at nominal voltage (typical)
Release Time (typical)	2ms at nominal coil voltage with no coil suppression
Dielectric Strength (at sea level)	750Vrms contact to contact
	3,000Vrms contact to coil VDE standard
Insulation Resistance	1,000 megohms min @ 20C (68F), 500VDC, 50% RH
	2,000Vrms contact to coil standard
Dropout	> 5% of nominal coil voltage
Ambient Temp (operating)	At nominal coil voltage
	Class B: -55C (-67F) to 90C (194F)
	Class F: -55C (-67F) to 115C (239F)
	Class B: -55C (-67F) to 130C (266F)
(storage)	Class F: -55C (-67F) to 155C (311F)
Vibration	0.062" DA @ 10-55 Hz, 10g @ 55-110 Hz
Shock	10 g
Enclosure	P.E.T. Polyester
Terminals	Tinned copper alloy, P.C.
Max Solder Temp	270C (518F)
Max Solder Time	5 seconds
Immersion Time	30 seconds maximum
Weight	8 grams

Relay Ordering Data

Standard Relays - 1 Form C (SPDT)				Light Duty (3 Amp Contact)	
Coil VDC nominal	Max VDC continuous	Coil Resistance	Must Operate VDC	ORDER NUMBER	
				Unsealed	Epoxy Sealed
5	10.6	56	3.25	AZ 8-1C-5D	AZ 8-1C-5DE
6	12.6	80	3.90	AZ 8-1C-6D	AZ 8-1C-6DE
9	19.0	180	5.85	AZ 8-1C-9D	AZ 8-1C-9DE
12	25.0	320	7.80	AZ 8-1C-12D	AZ 8-1C-12DE
24	50.0	1,280	15.60	AZ 8-1C-24D	AZ 8-1C-24DE
48	87.0	3,800	28.80	AZ 8-1C-48D	AZ 8-1C-48DE

Standard Relays - 1 Form C (SPDT)				Medium Duty (6 Amp Contact)	
Coil VDC nominal	Max VDC continuous	Coil Resistance	Must Operate VDC	ORDER NUMBER	
				Unsealed	Epoxy Sealed
5	10.6	56	3.25	AZ 8-1CH-5D	AZ 8-1CH-5DE
6	12.6	80	3.90	AZ 8-1CH-6D	AZ 8-1CH-6DE
9	19.0	180	5.85	AZ 8-1CH-9D	AZ 8-1CH-9DE
12	25.0	320	7.80	AZ 8-1CH-12D	AZ 8-1CH-12DE
24	50.0	1,280	15.60	AZ 8-1CH-24D	AZ 8-1CH-24DE
48	87.0	3,800	28.80	AZ 8-1CH-48D	AZ 8-1CH-48DE

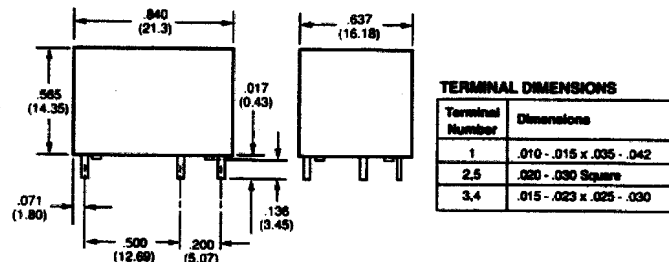
Sensitive Relays - 1 Form C (SPDT)				Light Duty (3 Amp Contact)	
Coil VDC nominal	Max VDC continuous	Coil Resistance	Must Operate VDC	ORDER NUMBER	
				Unsealed	Epoxy Sealed
5	12.6	80	3.25	AZ 8-1C-5DS	AZ 8-1C-5DSE
6	14.8	110	3.90	AZ 8-1C-6DS	AZ 8-1C-6DSE
9	22.4	250	5.85	AZ 8-1C-9DS	AZ 8-1C-9DSE
12	30.0	440	7.80	AZ 8-1C-12DS	AZ 8-1C-12DSE
24	60.0	1,780	15.60	AZ 8-1C-24DS	AZ 8-1C-24DSE

Sensitive Relays - 1 Form C (SPDT)				Medium Duty (6 Amp Contact)	
Coil VDC nominal	Max VDC continuous	Coil Resistance	Must Operate VDC	ORDER NUMBER	
				Unsealed	Epoxy Sealed
5	12.6	80	3.25	AZ 8-1CH-5DS	AZ 8-1CH-5DSE
6	14.8	110	3.90	AZ 8-1CH-6DS	AZ 8-1CH-6DSE
9	22.4	250	5.85	AZ 8-1CH-9DS	AZ 8-1CH-9DSE
12	30.0	440	7.80	AZ 8-1CH-12DS	AZ 8-1CH-12DSE
24	60.0	1,780	15.60	AZ 8-1CH-24DS	AZ 8-1CH-24DSE

Standard Relays - 1 Form A (SPST)				Heavy Duty (10 Amp Contact)	
Coil VDC nominal	Max VDC continuous	Coil Resistance	Must Operate VDC	ORDER NUMBER	
				Unsealed	Epoxy Sealed
5	10.6	56	4.00	AZ 8-1AT-5D	AZ 8-1AT-5DE
6	12.6	80	4.80	AZ 8-1AT-6D	AZ 8-1AT-6DE
9	19.0	180	7.20	AZ 8-1AT-9D	AZ 8-1AT-9DE
12	25.0	320	9.60	AZ 8-1AT-12D	AZ 8-1AT-12DE
24	50.0	1,280	19.20	AZ 8-1AT-24D	AZ 8-1AT-24DE
48	87.0	3,800	38.40	AZ 8-1AT-48D	AZ 8-1AT-48DE

To indicate Class F version, add suffix "F". Other coil resistances and sensitivities are available.

Mechanical Dimensions



Dimensions in inches with metric equivalents in parentheses. Tolerance is 0.010"