

AZ8

MINIATURE PCB RELAY

FEATURES

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



CONTACTS

Arrangement	SPDT (1 Form C) SPST (1 Form A) 10A version only
Ratings Light Duty	Resistive load : Max switched power : 100W or 600VA Max switched current : 3A Max switched voltage : 150*VDC / 300VAC UL Rating : 2A at 28VDC or 300VAC 0.125HP 120VAC 0.1HP 120/240VAC, pilot duty 100K cyc. ^{1.2} / _{0.8} A at 120/240VAC, pilot duty 100K cyc. ^{3.0} / _{1.5} A at 120/240VAC gen use 100K cyc.
Medium Duty	Max switched power : 180W or 1800VA Max switched current : 6A Max switched voltage : 150*VDC or 300VAC UL Rating : 6A at 28VDC or 300VAC 0.125HP 120/240VAC (100K cyc.) ^{1.5} / _{0.8} A at 120/240VAC, pilot duty 100K cyc. ^{3.8} / _{1.9} A at 120/240VAC gen use 100K cyc.
Heavy Duty	Max switched power : 300W or 2400VA Max switched current : 10A Max switched voltage : 150*VDC or 300VAC UL Rating : 10A at 30VDC or 120VAC 0.25HP 120VAC, 0.5HP 250VAC * Note : If switching voltage is greater than 30VDC, 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

COIL

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

GENERAL DATA

Life Expectancy Mechanical Electrical Light Duty Med Duty Heavy Duty	Minimum operations 100 million operations 3x10 ⁵ at 3A, 120VAC 1.8x10 ⁵ at 6A, 120VAC 1x10 ⁵ at 10A, 120VAC
Operate Time (typical)	5ms at nominal coil voltage
Release Time (typical)	2ms 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. 500VDC, 50% RH
Dropout	Greater than 5% of nominal coil voltage
Ambient Temperature Operating	At nominal coil voltage -55°C to 90°C Class B -55°C to 115°C Class F
Storage	-55°C to 130°C Class B -55°C to 155°C Class F
Vibration	0.062" DA at 10 – 55 Hz 10g at 55 – 55Hz
Shock	10g
Enclosure	PET polyester
Terminals	Tinned copper alloy, PC
Max Solder Temp	270°C
Max Solder Time	5 seconds
Max Solvent Temp	80°C
Max Immersion Time	30 seconds
Weight	8 grammes

NOTES

1. All values at 20°C
2. Relay may pull in with less than 'Must Operate' value
3. Unsealed relays should not be dip cleaned
4. Other coil resistances and sensitivities available upon request
5. Specifications subject to change without notice

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