

AZ951/AZ952

SUBMINIATURE POWER RELAY

FEATURES

- Subminiature size for high density packaging
- Low cost relay, SPDT contact arrangement
- 2 different pinnings available
- 1 Amp, 3 Amp and 5 Amp versions available
- Standard and sensitive coils up to 24 VDC available
- Sensitive coils with low pickup power of 116 mW
- Epoxy sealed
- Life expectancy of up to 10 million operations
- UL, CUR file E43203



CONTACTS

Arrangement	SPDT (1 Form C)
Ratings (max.) (resistive load)	
Light duty version	
switched power	30 W or 125 VA
switched current	1 A
switched voltage	60 VDC* or 220VAC
Medium duty version	
switched power	90 W or 375 VA
switched current	3 A
switched voltage	60 VDC* or 220VAC
Heavy duty version	
switched power	150 W or 625 VA
switched current	5 A
switched voltage	60 VDC* or 220VAC
	* Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
UL Rated Loads	
Light duty version	1 A at 125 VAC 1 A at 30 VDC
Medium duty version	3 A at 125 VAC 3 A at 30 VDC 270 VA, 125 VAC, Pilot Duty, 30k cycles (N.O.), 6k cycles (N.C.)
Heavy duty version	5 A at 125 VAC 5 A at 30 VDC
Contact materials	
Light duty version	Silver (Ag + Au), gold plated
Medium duty version	Silver (Ag + Au), gold plated
Heavy duty version	Silver nickel (AgNi + Au), gold plated
Initial resistance	≤ 50 mΩ

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	1×10^7
electrical	1×10^5 at 3 A 120 VAC resistive
Operate Time	5 ms (typ.) at nominal coil voltage
Release Time	1 ms (typ.) at nominal coil voltage, without coil suppression
Dielectric Strength	(at sea level for 1 min.) 1000 V _{RMS} coil to contact 500 V _{RMS} between open contacts
Insulation Resistance	1000 MΩ (min.) at 20°C, 500 VDC, 50% RH
Temperature Range	(at nominal coil voltage)
operating	
standard coil versions	-25°C (-13°F) to 55°C (131°F)
sensitive coil versions	-25°C (-13°F) to 70°C (158°F)
Vibration resistance	1.5 mm (0.062") DA at 10–55 Hz
Shock	10 g operating
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P. C.
Soldering	
Max. Temperature	270°C (518°F)
Max. Time	5 seconds
Cleaning	
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Dimensions	
length	15.75 mm (0.620")
width	10.75 mm (0.423")
height	11.81 mm (0.465")
Weight	3.5 grams (approx.)
Packing unit in pcs	25 per plastic tray / 2000 per carton box
Compliance	UL 508, RoHS

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This product specification to be used only together with the application notes which can be downloaded from www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf

