AZ7621P

MINIATURE LATCHING POWER RELAY

FEATURES

- 16 A switching capability
- SPST-N.O. (1 Form A) and SPDT (1 Form C) contact arrangements
- Single coil latching and dual coil latching versions
- High Dielectric strength 5 kV_{RMS}
- Compact size, low height 15.7 mm
- Epoxy sealed versions available
- Gold plated versions optional
- RoHS compliant
- UL, CUR file E43203



CONTACTS **GENERAL DATA** Arrangement SPST-N.O. (1 Form A) Life Expectancy (minimum operations) mechanical SPDT (1 Form C) 5 x 10⁶ 5 x 10⁴ at 16 A 250 VDC resistive electrical (resistive load) Ratings (max.) switched power 4000 VA Set Time 10 ms (max.) at nominal coil voltage switched current 16 A **Reset Time** 10 ms (max.) at nominal coil voltage switched voltage 440 VAC Note: If switching voltage is greater than 30 VDC, **Dielectric Strength** (at sea level for 1 min.) special precautions must be taken. Please coil to contacts δ kV_{RMS} 1 kV_{RMS} contact the factory. between open contacts **Rated Loads** Isolation spacing 16 A at 250 VAC, resistive, 50k cycles, 85°C UL, CUR ≥ 8.4 mm creepage Contact materials AgSnO₂ - silver tin oxide Insulation Resistance 1000 MΩ (min.) at 20°C, 500 VDC, 50% RH gold plating available (at nominal coil voltage) -40°C (-40°F) to 85°C (185°F) **Temperature Range** Minimum switching operating non gold plated 100 mA / 6 V gold plated 50 mA / 6 V Vibration resistance 1.5 mm (0.138") DA at 10-55 Hz operating Initial resistance < 50 mO Shock operating 10 g Terminals Tinned copper alloy, P. C. COIL Nominal coil DC voltages see coil voltage specifications tables Soldering 260°C (500°F) max. temperature Power at pickup voltage (typ.) max. time 5 seconds single coil latching 196 mW 294 mW (24 VDC coil: 318 mW) dual coil latching Cleaning max. solvent temp. 80°C (176°F) max, immersion time 30 seconds Max. temperature 105°C (221°F) Dimensions 29.0 mm $(1 \ 14")$ lenath NOTES width 12.7 mm (0.50")15.7 mm height (0.62")

- 1. All values at 20°C (68°F).
- 2. Relay may pull in with less than "Must Operate" value.
- Relay has fixed coil polarity.
- 4. Initial state of contacts may be changed during transportation or shock.
- 5. Pulse width should be minimum three times the specified set/reset time.
- Do not power set and reset coil simultaneously (dual coil versions).
 Relay adjustment may be affected if undue pressure is exerted on relay
- Case.

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8. Specifications subject to change without notice.

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Weight

Compliance

A ZETTLER GROUP Company

13 grams

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

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COIL VOLTAGE SPECIFICATIONS

Single coil latching

-	J	5		
	Nominal Coil VDC	Must Operate VDC	Coil Power mW	Resistance Ohm ± 10%
	5	3.5		63
	6	4.2		90
	9	6.3	400	203
	12	8.4		360
	24	16.8		1440

Dual coil latching

ORDERING DATA

AZ7621P

1A:

1C:

single coil latching

2: dual coil latching

Latching type

Example ordering data AZ7621P1-1A-12D

AZ7621P2-1C-5DEA

AZ7621P2-1A-9DR

Nominal Coil VDC	Must Operate VDC	Coil Power mW	Resistance Ohm ± 10%
5	3.5		42
6	4.2		60
9	6.3	600	135
12	8.4		240
24	16.8		886

Reverse polarity option nil: standard polarity coil

R: reversed polarity coil

Plating option nil: non plated A: Gold plating

Sealing option nil: non sealed

Nominal coil voltage

1 Form A (SPST-N.O.) 1 Form C (SPDT)

plated, standard coil polarity

standard coil polarity

polarity

Contact arrangement

E: sealed version

see coil voltage specifications tables

Single coil latching, 1 Form A contact arrangement, 12 VDC nominal coil voltage, non sealed, non gold

Dual coil latching, 1 Form C contact arrangement,

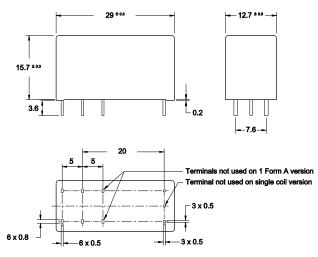
5 VDC nominal coil voltage, sealed, gold plated,

Dual coil latching, 1 Form A, 9 VDC nominal coil

voltage, non sealed, non gold plated, reversed coil

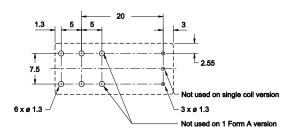
MECHANICAL DATA

Dimensions in mm.



PC BOARD LAYOUT

Viewed towards terminals. Dimensions in mm.



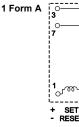
WIRING DIAGRAMS

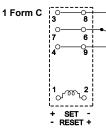
Viewed towards terminals, shown in reset condition.

8

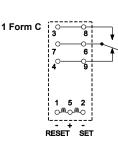
Note: The diagrams show the standard coil polarity. The polarity is reversed for types with reverse polarity option 'R'.

Single coil latching type





Dual coil latching type



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