

AZ9405

10 AMP MINIATURE POWER RELAY

FEATURES

- 10 A switching capability
- Available in SPST-N.O. and SPDT versions
- 4 kV dielectric strength, 8 kV surge withstand voltage
- Epoxy sealed version available
- Standard and sensitive coil available
- UL Class F insulation (155°C) standard
- Compact size, low seated height of 15.2 mm
- UL, CUR file E44211
- TÜV R50304647



CONTACTS

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

Ratings (max.) (resistive load)
switched power 150 W or 1400 VA
switched current 10 A
switched voltage 30 VDC* or 277 VAC

* Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.

Rated Loads

UL

1 Form A

10 A at 125 VAC, resistive, 85°C, 100k cycles
5 A at 277 VAC, gen.use/resistive, 85°C, 100k cycles
5 A at 30 VDC, gen.use/resistive, 85°C, 100k cycles
 $\frac{1}{10}$ HP at 125/250 VAC, 100k cycles

1 Form C (N.O. contact)

5 A at 277 VAC, gen.use/resistive, 85°C, 100k cycles
5 A at 30 VDC, gen.use/resistive, 85°C, 100k cycles
 $\frac{1}{10}$ HP at 125/250 VAC, 100k cycles

1 Form C (N.C. contact)

3 A at 277 VAC, gen.use/resistive, 85°C, 100k cycles
3 A at 30 VDC, gen.use/resistive, 85°C, 100k cycles

TÜV

1 Form A

10 A at 125 VAC, resistive, 85°C, 100k cycles
5 A at 277 VAC, resistive, 85°C, 100k cycles

1 Form C (N.O. contact)

5 A at 277 VAC, resistive, 85°C, 100k cycles
5 A at 30 VDC, resistive, 85°C, 100k cycles

1 Form C (N.C. contact)

3 A at 277 VAC, resistive, 85°C, 100k cycles
3 A at 30 VDC, resistive, 85°C, 100k cycles

Contact material AgSnO₂ (silver tin oxide)

Initial resistance ≤ 100 mΩ (1 A / 6 V - voltage drop method)

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 rated loads

Operate Time (max.) at nominal coil voltage
standard coil 10 ms
sensitive coil 15 ms

Release Time 5 ms (max.) at nominal coil voltage, without coil suppression

Dielectric Strength (at sea level for 1 min.)
4000 V_{RMS} coil to contact
1000 V_{RMS} between open contacts

Surge voltage 8 kV (at 1.2 x 50 μs) coil to contact

Insulation Resistance 1000 MΩ (min.) at 20°C, 500 VDC, 50% RH
Clearance 4 mm (1 Form A), 3 mm (1 Form C)
Creepage 6 mm (1 Form A), 5 mm (1 Form C)

Temperature Range (at nominal coil voltage)
operating -40°C (-40°F) to 85°C (185°F)

Vibration resistance 0.062" (1.5 mm) DA at 10–55 Hz
Shock 10 g operating

Enclosure P.B.T. polyester, UL94 V-0
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 20.0 mm (0.787")
width 10.0 mm (0.394")
height 15.2 mm (0.598")
Weight 7 grams (approx.)

Compliance UL 508, IEC 61810-1, RoHS, REACH

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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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