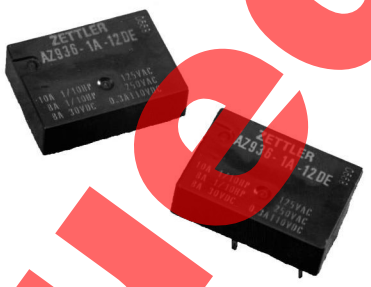
AZ936

10 AMP LOW PROFILE POWER RELAY



FEATURES

- High power switching (2000 VA)
- High sensitivity, 190 mW pickup
- Low profile
- SPST (1 Form A)
- DC coils up to 100 VDC
- UL file E44211, CSA file 720514
- TÜV file BL991234205002

CONTACTS

Arrangement	SPST (1 Form A)
Ratings	**Resistive load:** Max. switched power: 240 W, 2000 VA Max. switched current: 10 A Max. switched voltage: 250 VAC/110 VDC
Rated Load **UL, CSA**	10 A at 125 VAC, resistive 8 A at 250 VAC, 30 VDC, resistive $^1/_{10}$ HP 125 VAC $^1/_{10}$ HP 250 VAC
TÜV	10 A at 125 VAC, resistive 8 A at 250 VAC, 30 VDC, resistive
Material	Silver tin oxide
Resistance	< 100 milliohms initially (6 V, 1 A voltage drop method)

COIL

Power **At Pickup Voltage (typical)**	190 mW 3-24 VDC coils 245 mW 48 VDC coil 285 mW 100 VDC coil
Max. Continuous Dissipation	0.6 W at 20°C (68°F)
Temperature Rise	20°C (36°F) at nominal coil voltage
Temperature	Max. 115°C (239°F)

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 **Mechanical** **Electrical**	Minimum operations 1 x 10^7 1 x 10^5 at 8 A 250 VAC Res.
Operate Time (typical)	10 ms at nominal coil voltage
Release Time (typical)	2 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	1500 Vrms coil to contact 1000 Vrms contact to contact
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 5% of nominal coil voltage
Ambient Temperature **Operating** **Storage**	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) 3-24 VDC -40°C (-40°F) to 60°C (140°F) 48-100 VDC -40°C (-42°F) to 105°C (221°F)
Vibration	0.062" (1.5 mm) DA at 10–55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	5 grams

Discontinued!

ZETTLER electronics GmbH
Junkersstrasse 3, D-82178 Puchheim, Germany
Tel. +49 89 800 97 0 office@ZETTLERelectronics.com
Fax +49 89 800 97 200 www.ZETTLERelectronics.com

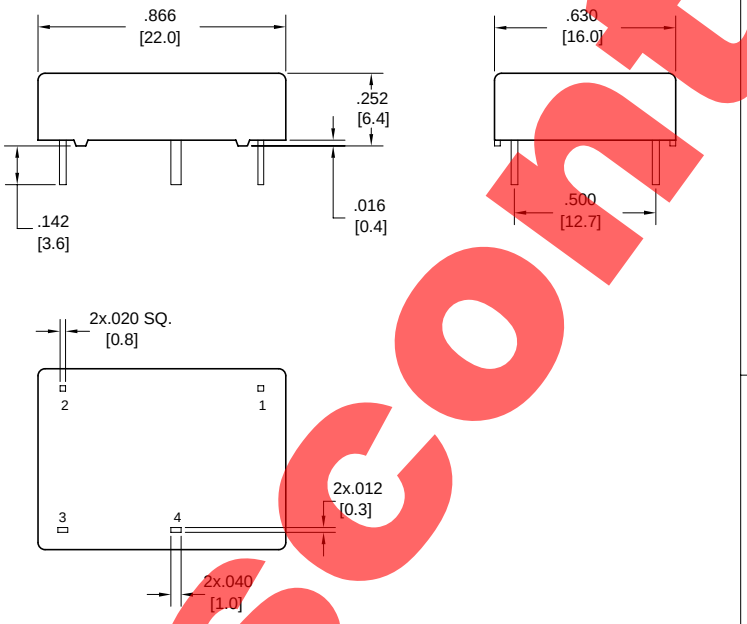
2003-06-15

AZ936

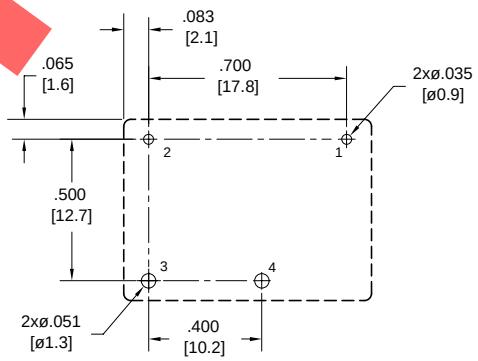
RELAY ORDERING DATA

COIL SPECIFICATIONS SPST-NO (1 Form A)				ORDER NUMBER	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ±10%	Unsealed	Sealed
3	2.4	3.9	30	AZ936–1A–3D	AZ936–1A–3DE
5	4.0	6.5	83	AZ936–1A–5D	AZ936–1A–5DE
6	4.8	7.8	120	AZ936–1A–6D	AZ936–1A–6DE
9	7.2	11.7	270	AZ936–1A–9D	AZ936–1A–9DE
12	9.6	15.6	480	AZ936–1A–12D	AZ936–1A–12DE
24	19.2	31.2	1,920	AZ936–1A–24D	AZ936–1A–24DE
48	33.6	52.8	4,608	AZ936–1A–48D	AZ936–1A–48DE
100	70.0	110.0	20,000	AZ936–1A–100D	AZ936–1A–100DE

MECHANICAL DATA

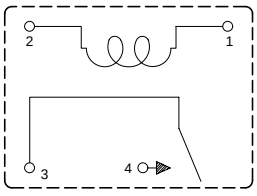


PC BOARD LAYOUT



VIEWED TOWARD TERMINALS

WIRING DIAGRAM



VIEWED TOWARD TERMINALS

Dimensions in inches with metric equivalents in parentheses. Tolerance: ±0.010"

Discontinued!

ZETTLER electronics GmbH
Junkersstrasse 3, D-82178 Puchheim, Germany
Tel. +49 89 800 97 0
Fax +49 89 800 97 200
office@ZETTLERelectronics.com
www.ZETTLERelectronics.com