

AZ22801

50 AMP MINIATURE POWER RELAY

FEATURES

- Panel Mount
- 1 Form A, B and C contacts available
- AC and DC coils available
- Class F high temperature available
- Lower cost 30A contact available
- UL, CUR file E44211
- TÜV Pending



CONTACTS

Arrangement	SPST (1 Form A, or B) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 1200W or 7200VA Max. switched current: 40A (Form A) Max. switched voltage: 300VAC, 110VDC
UL, CUR	NO: 50A at 240VAC, Resistive [2] 40A at 240VAC, Resistive 30A at 277VAC, General Purpose 25A at 277VAC, Resistive, 100k cycles 20A at 240VAC, Resistive, 250k cycles 2HP at 250VAC 5A at 280VAC, Ballast
TÜV	NC: 35A at 240VAC, Resistive [2] 30A at 240VAC / 30VDC, Resistive 20A at 277VAC, General Purpose 1.5HP at 250VAC 5A at 280VAC, Ballast
	NO: 40A at 240VAC, 14VDC 30A at 277VAC NC: 30A at 240VAC, 14VDC 30A at 277VAC
Material	Silver cadmium oxide [1], silver tin oxide [2]
Resistance	< 50 milliohms initially (24V, 1A voltage drop method)

COIL

Power At Pickup Voltage (typical) Max. Continuous Dissipation	DC: 506mW (30/40A), 844mW (50A) AC: 1.4VA DC: 1.7W at 20°C AC: 2.7VA at 20°C
Max. Temperature	Max. 130°C (266°F) Class B Max. 155°C (311°F) Class F

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 30A 120 VAC Res.
Operate Time	15 msec max. at nominal coil voltage
Release Time	10 msec max. at nominal coil voltage (without suppression)
Dielectric Strength (at sea level for 1 min.)	1500Vrms contact to contact 2500Vrms contact to coil 4000Vrms contact to coil-Contact Factory
Insulation Resistance	1000 megohms min. at 20°C, 500VDC 50% RH
Dropout	DC: > 10% of nominal coil voltage AC: > 30% of nominal coil voltage
Ambient Temperature Operating Storage	-55°C (-67°F) to 100°C (212°F) Class B -55°C (-67°F) to 125°C (257°F) Class B -55°C (-67°F) to 130°C (266°F) Class F -55°C (-67°F) to 155°C (311°F) Class F
Vibration	0.06" DA at 10-55Hz
Shock	20g
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	35 grams

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.

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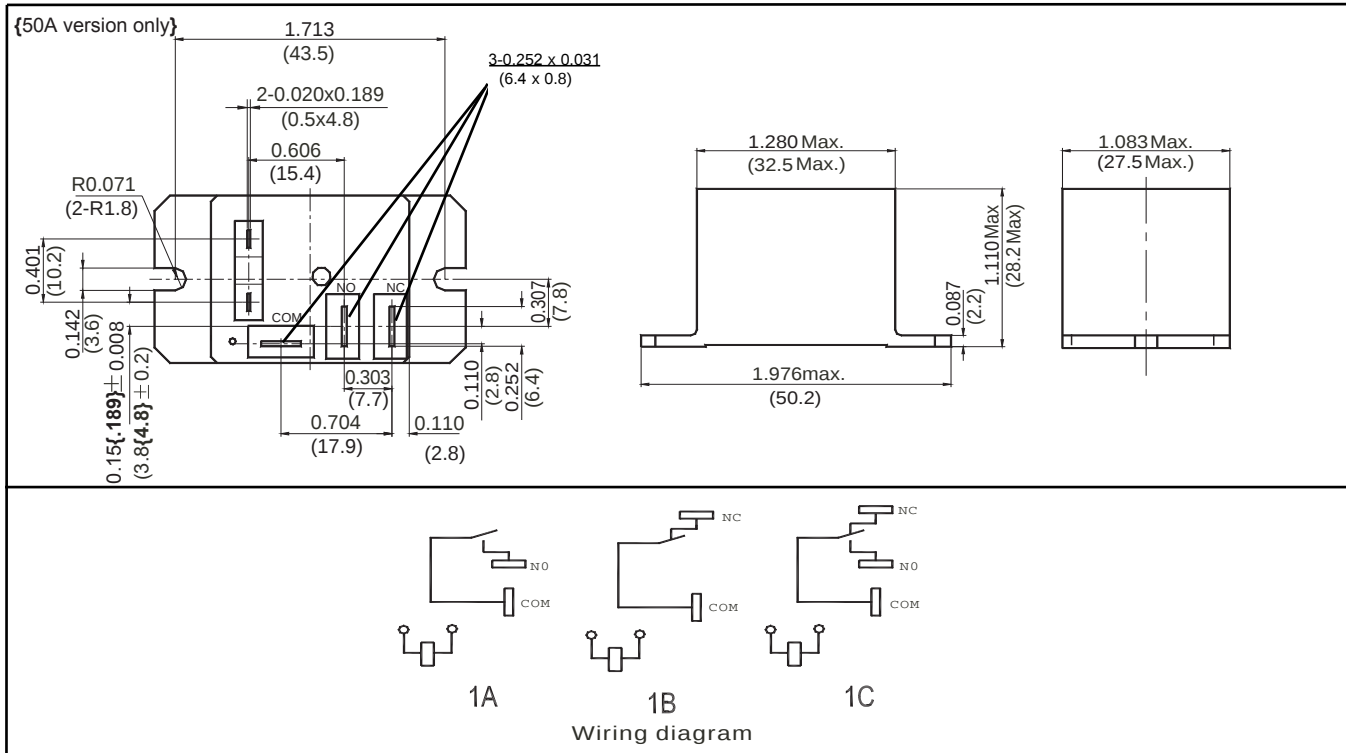
AZ22801

RELAY ORDERING DATA

COIL SPECIFICATIONS – DC Coil						ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance ± 10% (30/40A) (50A)		
3	2.25	3.9	300	10	6	AZ22801–1A–3DE
5	3.75	6.5	179	28	16.7	AZ22801–1A–5DE
6	4.50	7.8	150	40	24	AZ22801–1A–6DE
9	6.75	11.7	100	90	54	AZ22801–1A–9DE
12	9.00	15.6	75	160	96	AZ22801–1A–12DE
15	10.25	19.5	60	250	150	AZ22801–1A–15DE
18	13.5	23.4	50	360	216	AZ22801–1A–18DE
24	18.0	31.2	38	640	384	AZ22801–1A–24DE
48	36.0	62.4	19	2,560	1536	AZ22801-1A–48DE
110	82.50	143	8	13,445	8067	AZ22801–1A–110DE
COIL SPECIFICATIONS – AC Coil 50/60 Hz						ORDER NUMBER*
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Coil Power VA	Coil Resistance ±10% (30/40A only)		
12	9	15.6	2.0	27		AZ22801–1A–12AE
24	18	31.2	2.0	120		AZ22801–1A–24AE
110	82.5	143	2.0	2,360		AZ22801–1A–110AE
120	90	156	2.0	3,040		AZ22801–1A–120AE
220	165	286	2.0	13,490		AZ22801–1A–220AE
240	180	312	2.0	15,740		AZ22801–1A–240AE
277	207.75	360.1	2.0	20,300		AZ22801–1A–277AE

Substitute "-1B" or "-1C" in place of "-1A" for 1 Form B or 1 Form C respectively. For silver tin oxide contacts substitute "-1AE", "-1BE", or "-1CE" in place of "-1A" or "-1B" or "-1C." For 30A version, add "H" after "-1A", "-1AE", "-1B", "-1BE", or "-1C", "-1CE.", or for 50A version, add "T" after "-1AE", "-1BE", or "-1CE." To indicate class F version, add suffix "F".

MECHANICAL DATA



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