

AZ2900

25 AMP POWER RELAY

FEATURES

- Panel mount
- Universal mounting bracket with break-away tabs
- 25 Amp switching
- Quick-connect terminals
- UL insulation system Class F
- UL, CUR file E44211
- UL LZGH2/8 Certified for use with A2L refrigerants



CONTACTS

Arrangement	SPST (1 Form A) SPST (1 Form B) SPST (1 Form A and 1 Form B) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 6925 VA Max. switched current: 25 A Max. switched voltage: 277 VAC
UL, CUR	1 Form A 12 FLA, 60 LRA at 125 VAC, 30k cycles [1],[2],[3] 8 FLA, 48 LRA at 250 VAC, 30k cycles [1],[2],[3] 8 FLA, 48 LRA at 277 VAC, 30k cycles [2],[3] 25 A at 277 VAC, resistive, 50k cycles [1],[3] 18 A at 277 VAC, resistive, 50k cycles [2],[3] 3 A at 277 VAC, 30k cycles General Use [2],[3] 277 VA at 277 VAC, 30k cycles (Pilot duty) [2] 1 Form B 14 FLA, 84 LRA at 125 VAC, 30k cycles at 40°C [1] 8 FLA, 48 LRA at 250 VAC, 30k cycles [1] 8 FLA, 48 LRA at 277 VAC, 30k cycles [1] 25 A at 277 VAC, resistive, 50k cycles [1] 3 A at 277 VAC, 30k cycles General Use [2] 277 VA at 277 VAC, 30k cycles (Pilot duty) [2] 1 Form C 14 FLA, 84 LRA at 125 VAC, 30k cycles [1],[3] 8 FLA, 48 LRA at 250 VAC, 30k cycles [1],[2],[3] 8 FLA, 48 LRA at 277 VAC, 30k cycles [1],[2],[3] 25 A at 277 VAC, resistive, 50k cycles [1],[3] 3 A at 277 VAC, 30k cycles General Use [1],[2] 277 VA at 277 VAC, 30k cycles (Pilot duty) [2] 18 A at 277 VAC, resistive, 50k cycles [2] 1 Form A & B 12 FLA, 60 LRA at 125 VAC, 30k cycles [1],[2],[3] 8 FLA, 48 LRA at 250 VAC, 30k cycles [1],[2],[3] 8 FLA, 48 LRA at 277 VAC, 30k cycles [1],[2] 18 A at 277 VAC, resistive, 100k cycles [1] 18 A at 277 VAC, resistive, 50k cycles [2],[3] 25 A at 277 VAC, resistive, 50k cycles [1] 3 A at 277 VAC, 30k cycles General Use [2] 277 VA at 277 VAC, 30k cycles (Pilot duty) [2]
Material	Silver Cadmium Oxide [1], Silver Cerium (Pilot) [2], Silver Tin Oxide [3]
Resistance	< 200 milliohms initially (24 V, 1 A voltage drop method)

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁶ 1 x 10 ⁵ at 25 A 277 VAC Res.
Operate Time (typical)	25 ms at nominal coil voltage
Release Time (typical)	25 ms at nominal coil voltage
Dielectric Strength (at sea level for 1 min.)	2500 Vrms coil to contact 1000 Vrms between open contacts
Insulation Resistance	500 megohms min. at 500 VDC, 20°C 50% RH
Dropout	Greater than 20% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 65°C (149°F) -40°C (-40°F) to 105°C (221°F)
Vibration	0.062" DA at 10–55 Hz
Shock Operating	10 g, 11 ms 1/2 sine (no false operation)
Enclosure	Phenolic
Terminals	Quick-connect
Weight	85 grams

COIL

Power At Nominal Voltage (typical)	4.0 VA
Temperature Rise	60°C (108°F) at nominal coil voltage
Temperature	Max. 155°C (311°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.

ZETTLER Controls, Inc. www.zettlercontrols.com

75 Columbia • Aliso Viejo, CA 92656 • Phone: (949) 360-5840 • Fax: (949) 360-5839 • E-Mail: sales@zettlercontrols.com

9/16/2024

AZ2900

RELAY ORDERING DATA

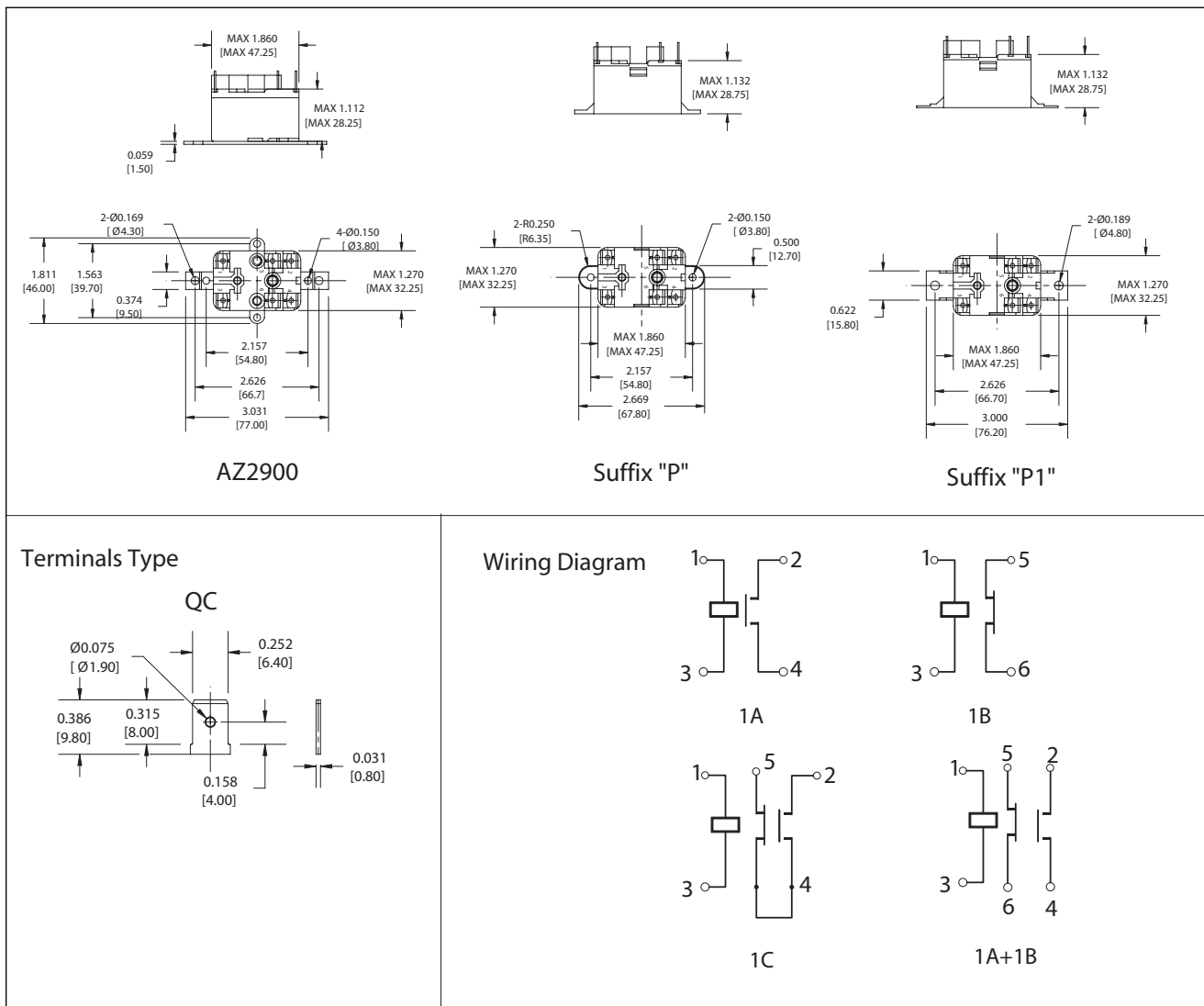
COIL SPECIFICATIONS					ORDER NUMBER*
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Coil Resistance $\pm 10\%$	Coil Current A	1 Form C**
24	20.4	31.2	77	0.167	AZ2900-1C-24A
120	102	132	2000	0.033	AZ2900-1C-120A
240	204	264	7250	0.017	AZ2900-1C-240A
277	235	305	11000	0.014	AZ2900-1C-277A

*For 1 Form A, 1 Form B, or 1 Form A & B, substitute "-1A", "-1B" or "-1AB" in place of "-1C". For Silver Cerium (AgCe) contact material add suffix "E". For Silver Tin Oxide (AgSnO₂) contact material add Suffix "T".

For permanent plastic mounting tabs on 2.15" (hole diameter .150") centers add suffix "P" or for 2.62" centers (hole diameter .189") add "P1".

**There is no terminal "6" on 1 Form C relays.

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "

ZETTLER Controls, Inc. www.zettlercontrols.com

75 Columbia • Aliso Viejo, CA 92656 • Phone: (949) 360-5840 • Fax: (949) 360-5839 • E-Mail: sales@zettlercontrols.com