AZ2150W

NEW !!!

Designed for Solar Power Switch 30 A !!!

RoHS compliant !

30 AMP MINIATURE POWER RELAY

FEATURES

- 1.75 mm contact gap
- DC coils up to 48V
- High dielectric strength 4 kV contact to coil
- All plastics PTI 250
- Epoxy sealed versions available
- UL Class F (155°C) standard
- UL, CUR file E44211
- VDE certificate 40023154

CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 900 W or 8310 VA Max. switched current: 30 A Max. switched voltage: 250 VDC* or 440 VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Ratings **UL, CUR** **VDE**	 30 A at 277 VAC, General use 20 A at 250 VAC, AC7a
Material	Silver tin oxide
Resistance	< 50 milliohm initially (24 V, 1A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	625 mW
Max. Continuous Dissipation	1.7 W at 20°C (68°F) ambient
Temperature Rise	43°C (77°F) at nominal coil voltage
Max. Temperature	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.
4. If higher electrical loads are to be switched by the relay contacts, the vent nib has to be opened prior to use of the relay.

GENEREAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 2 x 10^5 3 x 10^4 at 30 A 250 VAC Res.
Operate Time	15 ms max. at nominal coil voltage
Release Time	10 ms max. at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	3000 Vrms between open contacts 4000 Vrms contact to coil
Insulation Resistance	1000 megaohms min. at 20°C, 500 VDC 50% RH
Insulation (according to DIN VDE 0110, IEC 60664-1)	C250 Overvoltage category: III Pollution degree: 2 Nominal voltage: 250 VAC
Holding Voltage	Greater than 50% of nominal coil voltage
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature **Operating** **Storage**	 -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
Vibration	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	25 grams
Packing unit in pcs	40 per plastic tray / 280 per carton

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2010-09-28

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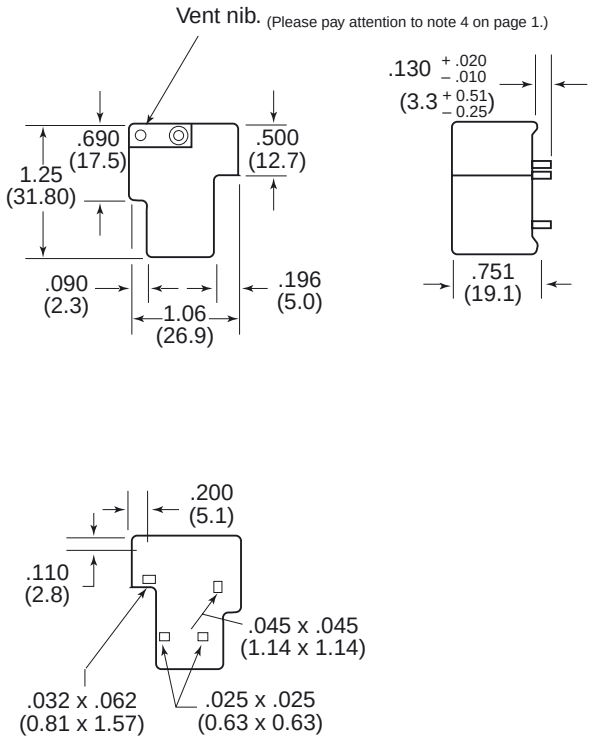
RELAY ORDERING DATA

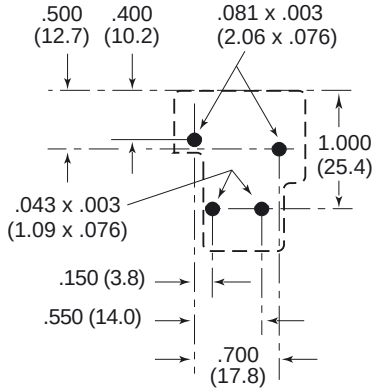
COIL SPECIFICATIONS – DC Coil					ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Min. Holding VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	
5	3.75	2.5	6.0	22.5	AZ2150W–1AE–5DFT
6	4.50	3.0	7.2	32.5	AZ2150W–1AE–6DFT
9	6.75	4.5	10.8	73	AZ2150W–1AE–9DFT
12	9.0	6.0	14.4	130	AZ2150W–1AE–12DFT
24	18.0	12.0	38.8	520	AZ2150W–1AE–24DFT
48	36.0	24.0	57.6	2,080	AZ2150W–1AE–48DFT

* Substitute “DEFT” in place of “DFT” for epoxy sealed version.
Coils 5VDC, 6VDC, 48VDC not VDE approved.

MECHANICAL DATA

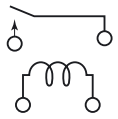


PC BOARD LAYOUT



Viewed toward terminals

WIRING DIAGRAM



1 FORM A
(SPST-NO)

Viewed toward terminals

Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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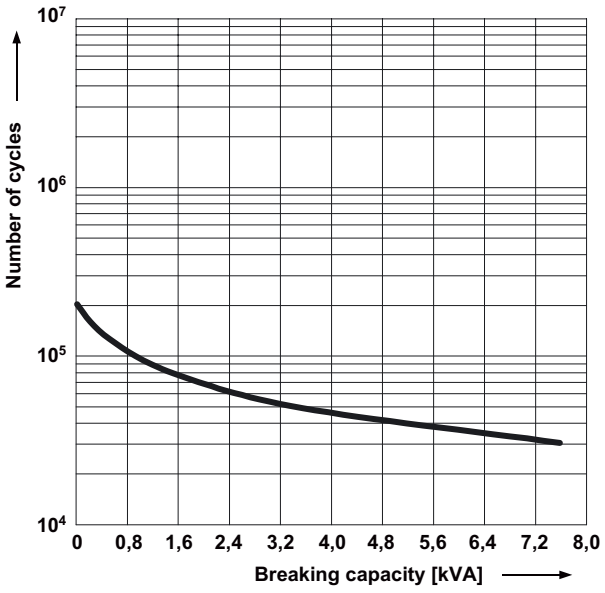
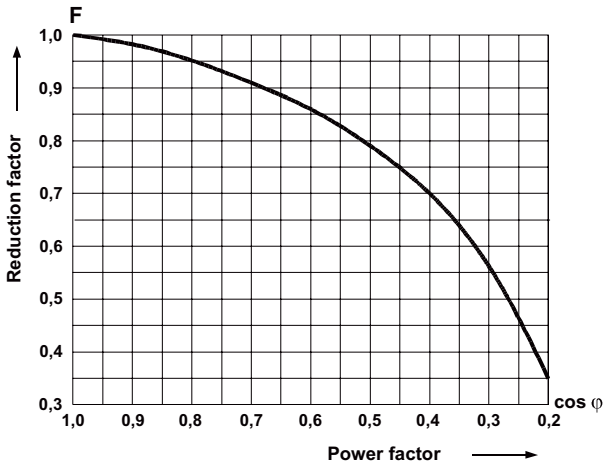
Electrical life at 250 VAC, resistive load

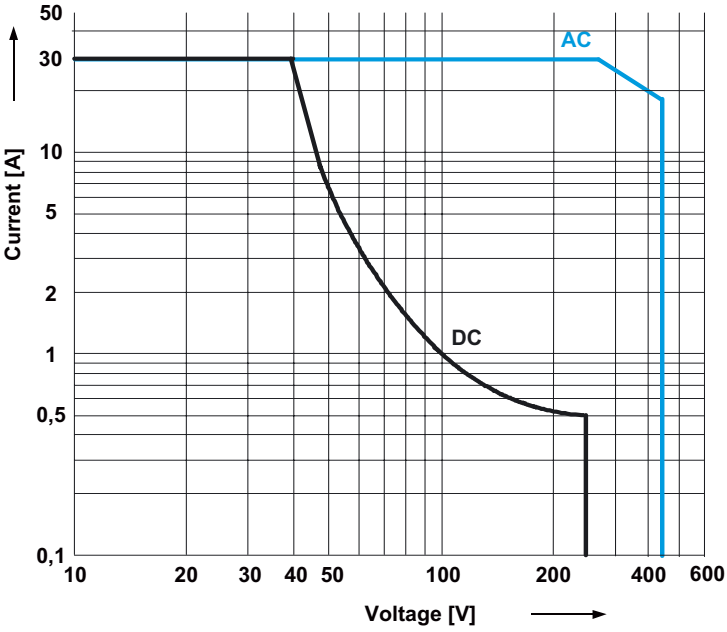


Electrical life reduction factor at inductive AC load



$N_{\cos \varphi} = N \times F$

Max. AC/DC resistive load breaking capacity



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