Discontinuation Notice for the European region

Discontinuation date: 31.12.2024 Date of last order: 30.06.2024 Recommended replacement

AZ2280.

30 AMP MINIATURE POWER RELAY

FEATURES

- · Quick-connect leads for contacts and coil
- 1 Form A. B and C contacts available
- AC and DC coils available
- Epoxy sealed versions available
- UL Class F (155°C) standard
- UL, CUR file E44211
- VDE certificate 40027037



CONTACTS

Arrangoment	SDST (1 Form A)			
Arrangement	SPST (1 Form A) SPST (1 Form B)			
	SPDT (1 Form C)			
Ratings	Resistive load:			
1 Form A	Max. switched power:	840 W or 8310 VA		
	Max. switched current:	30 A		
	Max. switched voltage:	28 VDC or 277 VAC		
1 Form B	Max. switched power:	280 W or 4155VA		
	Max. switched current:	15 A 📃 💊		
	Max. switched voltage:	28 VDC or 277 VAC		
1 Form C	Max. switched power:	560 W or 8310 VA (N.O.)		
		280 W or 5540 VA (N.C.)		
	Max. switched current:	30 A (N.O.)		
	20 A (N.C.)			
	Max. switched voltage: 28 VDC or 277 VAC			
Material	Silver cadmium oxide [1], silver tin oxide [2]			
Resistance	< 50 milliohm initially (24 V, 1A voltage drop method)			
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GENERAL DATA

	Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 30 A 120 VAC Res. N.O.		
	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.)	2500 Vrms coil to contact 1500 Vrms between open contacts		
		1000 megaohms min. at 20°C, 500 VDC 50% RH		
	Dropout	DC: > 10% of nominal coil voltage AC: > 20% of nominal coil voltage		
	Ambient Temperature Operating	-40°C (-40°F) to 85°C (185°F), DC coils -40°C (-40°F) to 70°C (158°F), AC coils		
	Vibration	1.5 mm DA at 10-55 Hz		
	Shock	10 g P.B.T. polyester Tinned copper alloy, Quick Connects Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.		
	Enclosure			
	Terminals			
	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	36 grams		
	Packing unit in pcs	40 per plastic tray / 240 per carton		

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COIL	
Power At Pickup Voltage (typical)	500 mW, DC coil 1.4 VA, AC coil
Max. Continuous Dissipation	1.7 W at 20°C (68°F) ambient, DC coil 2.7 VA at 20°C (68°F) ambient, AC coil
Temperature Rise	38°C (68°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. AC coils are not VDE approved
- 4. 18 VDC coil is not VDE approved.
- 5. Specification subject to change without notice.



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This product specification to be used only together with the application notes which can be downloaded from http://www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf

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CONTACTS

Rated load		Rated load	
UL	1 Form A	VDE	1 Form A, DC coils only
	30 A at 277 VAC, General Use, 6k cycles [1][2]		30 A at 250 VAC, resistive, 30k cycles [1]
	30 A at 28 VDC, resistive, 6k cycles [1]		15 A at 250 VAC, cos phi = 0.4, 100k cycles [1][2]
	28 A at 277 VAC, General Use, 100k cycles [1]		
	20 FLA / 60 LRA at 277 VAC, 30k cycles [1]		1 Form B, DC coils only
	2 HP at 250 VAC [1][2]		15 A at 250 VAC, resistive, 30k cycles [1]
	1 HP at 125 VAC [1][2]		
			1 Form C, (N.O.), DC coils only
	1 Form B		30 A at 250 VAC, resistive, 30k cycles [1]
	15 A at 277 VAC, General Use, 6k cycles [1]		20 A at 250 VAC, resistive, 100k cycles [2]
	10 A at 28 VDC, resistive, 6k cycles [1]		
	10 FLA / 33 LRA at 277 VAC, 30k cycles [1]		1 Form C, (N.C.), DC coils only
	0.5 HP at 250VAC [1]		15 A at 250 VAC, resistive, 30k cycles [1]
	0.25 HP at 125 VAC [1]		10 A at 250 VAC, resistive, 100k cycles [2]
	1 Form C, (N.O.)		Note: 18 VDC coil is not VDE approved.
	30 A at 277 VAC, General Use, 6k cycles [1][2]		AC coils are not VDE approved.
	20 A at 277 VAC, General Use, 6k cycles [1]		
	20 A at 28 VDC, resistive, 6k cycles [1]		
	20 FLA / 60 LRA at 277 VAC, 30k cycles [1]		
	2 HP at 250 VAC [1][2]		
	1 HP at 125 VAC [1][2]		
	1 Form C, (N.C.)		
	20 A at 277 VAC, General Use, 6k cycles [1][2]		
	10 A at 28 VDC, resistive, 6k cycles [1]		
	10 FLA / 33 LRA at 277 VAC, 30k cycles [1]		
	0.5 HP at 250 VAC [1][2]		
	0.25 HP at 125 VAC [1][2]		

RELAY ORDERING DATA

COIL SPECIFICA	COIL SPECIFICATIONS – DC Coil				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance Ohm ± 10%	ORDER NUMBER*
5	3.75	6.4	185	27	AZ2280-1AT-5DF
6	4.5	7.8	150	40	AZ2280-1AT-6DF
9	6.75	12.2	93	97	AZ2280-1AT-9DF
12	9.0	15.4	77	155	AZ2280-1AT-12DF
15	11.25	19.8	59	256	AZ2280-1AT-15DF
18	13.5	24.1	47	380	AZ2280-1AT-18DF
24	18.0	32.0	36	660	AZ2280-1AT-24DF
48	36.0	62.6	19	2,560	AZ2280-1AT-48DF

COIL SPECIFICATIONS – AC Coil 50/60 Hz				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Coil Power VA	Coil Resistance Ohm ± 10%	
12	9.6	13.8	2.3	25	AZ2280-1AT-12AF
24	19. 2	27.6	2.1	100	AZ2280-1AT-24AF
120	96.0	138.0	2.3	2,500	AZ2280-1AT-120AF
220	176.0	286.0	2.2	13,490	AZ2280-1AT-220AF
240	192.0	286.0	2.6	13,490	AZ2280-1AT-240AF
277	220.0	318.5	2.2	15,000	AZ2280-1AT-277AF

fax:

* "1AT" denote silver cadmium oxide contacts.

Substitute "1BT" in place of "1AT" for 1 Form B relay. Substitute "1CT" in place of "1AT" for 1 Form C relay.

Substitute "1AET" or "1CET" in place of "1AT" or "1CT" for silver tin oxide contacts.

Substitute "DEF" or "AEF" for epoxy sealed version.

Add suffix "K "at the end of order number for 0.11 x 0.02 [2.8 x 0.5] coil terminals.

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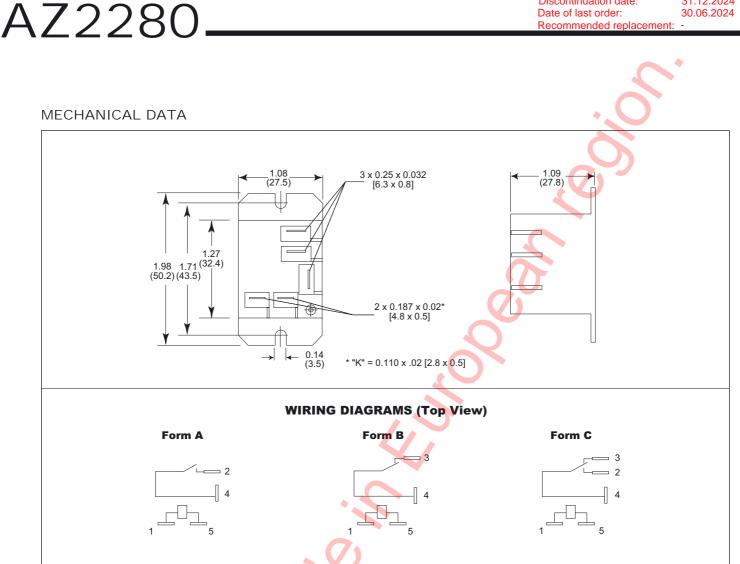
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Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"



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