AZDC110 ___

DC HIGH VOLTAGE POWER RELAY

FEATURES

- 10A 300VDC / 16A 180VDC switching capability
- Magnetic arc blow-out design
- 5 kV dielectric strength, 10 kV surge withstand voltage
- Ambient temperature up to 105°C (221°F)
- UL Class F insulation (155°C) standard
- Compact size, low seated height of 19 mm
- UL / CUR E44211
- TÜV R 50386704



CONTACTS

Arrangement	S PST -N.O. (1 Form A)	
Ratings (max.) switched power switched current switched voltage	(resistive load) 3000 W or 4800 VA 16 A 420 VDC or 300 VAC	
Rated Loads UL/CUR TÜV	16 A at 180 VDC, gen.use/res, 105°C, 30k cycles 10 A at 300 VDC, gen.use/res, 105°C, 30k cycles 5 A at 420 VDC, gen.use/res, 105°C, 30k cycles 16 A at 300 VAC, gen.use/res, 105°C, 30k cycles 16 A at 180 VDC, resistive, 30k cycles 10 A at 300 VDC, resistive, 30k cycles 5 A at 420 VDC, resistive, 30k cycles 16 A at 300 VAC, cos phi = 0.75 - 0.8, 30k cycles	
Contact material	AgSnO ₂ (silver tin oxide) ≤ 100 mΩ (1 A / 6 V - voltage drop method)	
Initial resistance		

COIL

Nominal coil DC voltages	see coil voltage specifications table		
Dropout voltage	≥ 5% of nominal coil voltage		
Coil power nominal at pickup voltage max. cont. dissipation	400 mW 225 mW (typ.) 1.7 W at 20°C (68°F)		
Temperature Rise	26 K (47°F) at nominal coil voltage		
Max. temperature	Class F insulation - 155°C (311°F)		

NOTES

- Relay may pull in with less than "Must Operate" value.
- All values at 20°C (68°F).
 Relay may pull in with less
 This relay is a continuous. This relay is equipped with a permanent magnet. This has to be taken into account during handling and assembly of the component.
- Specifications subject to change without notice.

GENERAL DATA

Life Expectancy	(minimum operations)			
' '	(minimum operations)			
mechanical electrical	3 x 10 ⁷ 3 x 10 ⁴ at rated loads			
Operate Time	10 ms (max.) at nominal coil voltage			
Release Time	5 ms (max.) at nominal coil voltage, without coil suppression			
Dielectric Strength	(at sea level for 1 min.) 5000 VRMS coil to contact 1000 VRMS between open contacts			
Surge voltage coil to contact	10 kV (at 1.2 x 50 μs)			
Insulation Resistance	1000 MΩ (min.) at 20°C, 500 VDC, 50% RH			
Temperature Range operating	(at nominal coil voltage) -40°C (-40°F) to 105°C (221°F)			
Vibration resistance	0.062" (1.5 mm) DA at 10-55 Hz			
Shock resistance	10 g			
Enclosure	RTII - flux proof (vented) P.B.T. polyester, UL94 V-0			
Terminals	Tinned copper alloy, P. C.			
Soldering max. temperature max. time	270 °C (518°F) 5 seconds			
Cleaning max. solvent temp. max. immersion time	80°C (176°F) 30 seconds			
Dimensions length width height	29.3 mm (1.154") 12.7 mm (0.500") 19.0 mm (0.748")			
Weight	15 grams (approx.)			
Packing unit in pcs	25 per tray / 250 per carton box			
Compliance	UL 508, IEC 61810-1, IEC60335-1 (GWT), RoHS, REACH			

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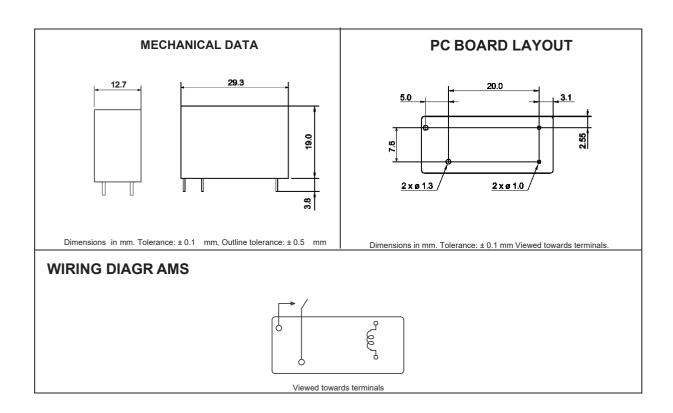
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COIL VOLTAGE SPECIFICATIONS

COLL VOLTAGE OF EGIT IDATIONS								
	Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Resistance Ohm ± 10%	Order Number			
	5	3.75	7.5	62.5	AZDC110-1AE-5DF			
	6	4.5	9.0	90	AZDC110-1AE-6DF			
	9	6.75	13.5	203	AZDC110-1AE-9DF			
	12	9.0	18.0	360	AZDC110-1AE-12DF			
	18	13.5	27.0	810	AZDC110-1AE-18DF			
	24	18.0	36.0	1440	AZDC110-1AE-24DF			



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