AZPRD_

50 AMP HEAVY DUTY POWER RELAY

FEATURES

- SPST, DPST, SPDT, and DPDT versions available
- AC and DC coils available
- UL Class F (155°C) molded construction
- PRD, PRDD and PRDE are UL and cUL Listed
- PRDS, PRDQ, and PRDR are UL cUR Recognized
- UL, CUL file E44211



CONTACTS

COIL

Arrangement	SPST (1 Form A & B), SPST-NO-DM (Form 1X), SPST-NC-DB (Form 1Y), DPST (2 Form A & B), SPDT (1 Form C), DPDT (2 Form C)
Ratings UL, CUR	Max. switched power: 840W or 12000 VA Res. Load Max. switched current: 30A Max. switched voltage: 600 VAC, 28 VDC 30A at 240 VAC Res. [1][2][3] 1.5 HP at 120; 240 VAC [1][2][3] 2.0 HP at 240; 277; 600 VAC [1][2][3] 3600W at 120 VAC / 240 VAC ballast [1][2][3] 30A at 240 VAC Res., 100k cycles [1][2][3] 20A at 600 VAC Res. [1][2][3] 30A at 28 VDC Res. [1][2][3] Aux. Snap Switch 1/4HP at 125 VAC / 240 VAC [2] 20A at 125 VDC [3] 50A at 277 VAC Res., [4][5] 40A at 277 VAC General use (inductive) [4][5]
	PRDQ series [1], PRDS [2]. PRDD [3], PRDE [4], PRDR [5]
Material	Silver cadmium oxide
Resistance	< 50 milliohms initially (24V, 1A voltage drop method)

Power			
At Pickup Voltage (typical)	DC: 1.12W AC: 6.9 VA		
Max. Continuous Dissipation	DC: 3.3W at 25°C AC: 12.5 VA at 25°C		
Temperature Rise	70°C at nominal coil voltage (AC) 35°C at nominal coil voltage (DC)		
Max. Temperature	155°C (311°F)		

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 30A 240 VAC Res.			
Operate Time (typical)	30 msec at nominal coil voltage			
Release Time (typical)	30 msec at nominal coil voltage (without suppression)			
Dielectric Strength (at sea level for 1 min.)	2200 Vrms contact to contact 2200 Vrms contact to coil			
Insulation Resistance	100 megohms min. at 20°C, 500 VDC 50% RH			
Dropout	DC: > 10% of nominal coil voltage AC: > 20% of nominal coil voltage			
Ambient Temperature Operating	-45°C (-49°F) to 80°C (176°F) AC coil, 30A -45°C (-49°F) to 70°C (239°F) AC coil, 50A -45°C (-49°F) to 115°C (176°F) DC coil, 30A -45°C (-49°F) to 105°C (239°F) DC coil, 50A			
Weight	227 grams			

NOTES

- 1. All values at 25°C (77°F).
- 2. Relay may pull in with less than "Must Operate" value.
- 3. Specifications subject to change without notice.



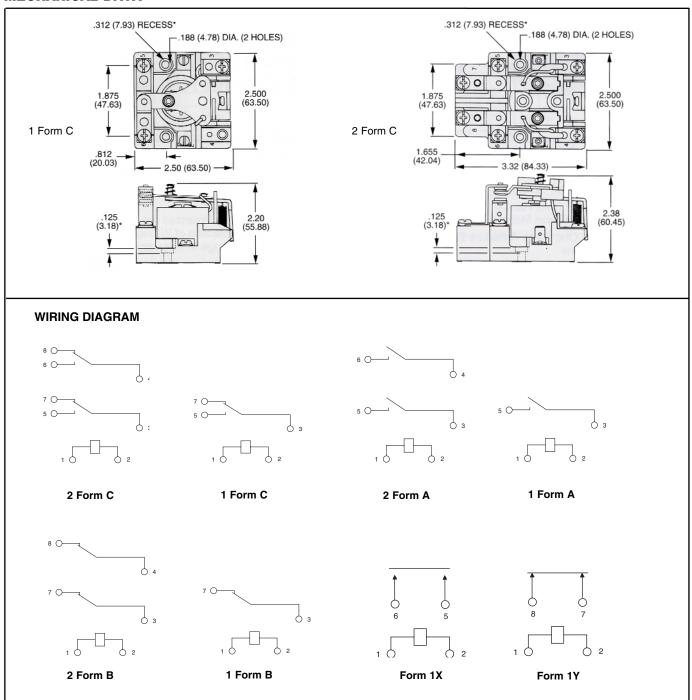
RELAY ORDERING DATA

Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance ± 10%	ORDER NUMBER*	
6	4.50	7.8	333	18	AZPRD-1C-6D	
12	9.1	15.4	166	72	AZPRD-1C-12D	
24	18.0	32.0	83	290	AZPRD-1C-24D	
48	36.0	62.6	42	1150	AZPRD-1C-48D	
110	82.5	143.0	18.2	6050	AZPRD-1C-110D	
	COIL SPECIFICATIONS – AC Coil 50/60 Hz					
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Coil Power VA	Coil Resistance ± 10%	ORDER NUMBER*	
6	5.1	6.9	9.5	0.85	AZPRD-1C-6A	
12	10.2	13.8	9.5	2.85	AZPRD-1C-12A	
24	20.4	27.6	9.5	11.5	AZPRD-1C-24A	
120	102.0	138.0	9.5	295.0	AZPRD-1C-120A	
240	204.0	276.0	9.5	1170.0	AZPRD-1C-240A	
480	408.0	552.0	9.5	4860.0	AZPRD-1C-480A	

*For double pole version replace "-1C" with "-2C", "-2A", or "-2B". For SPST replace "-1C" with "-1A" or "-1B". For SPST-NO-DM replace "-1C" with "-1X"(Short Base). For SPST-NC-DB replace "-1C" with "-1Y"(Long Base). For addition of SPDT Auxiliary Snap Switch Rated at 10A and 1/4 H.P. add "S" after PRD. For Q.C. 0.250" terminals add "Q" after PRD. For blow out magnets used in high dc loads add "D" after PRD. For 50A rating with box lug termination add "E" after PRD. For 50A rating with screw termination add "R" after PRD.

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MECHANICAL DATA



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