AZ2505_

120 AMP LATCHING POWER RELAY

FEATURES

- Low cost
- 120 Amp switching
- Heavy loads to 30,000VA
- 4kV dielectric
- Single or Dual Coil Latching available
- Multiple Termination Options
- UL pending



CONTACTS

(1 Form A) (1 Form B) load: ched power: 30000VA ched current: 120A ched voltage: 250VAC
(1 Form B) load: ched power: 30000VA ched current: 120A ched voltage: 250VAC
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COIL

Power At Pickup Voltage (typical) 563mW Single Coil 1.125W Dual Coil

NOTES

- 1. All values at 23°C (73.4°F).
- 2. Relay may pull in with less than "Must Operate" value.
- 3. Specifications subject to change without notice.
- 4. Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.

GENERAL DATA

Life Expectancy	Minimum operations	
Mechanical Electrical	1 x 10 ⁶ 1 x 104 at 60A, 250VAC Res.	
Set Time (max)	20ms at nominal coil voltage	
Reset Time (max)	20ms at nominal coil voltage	
Dielectric Strength (at sea level for 1 min.)	4000VAC coil to contact 1500VAC between open contacts	
Insulation Resistance	1000 megohms min. at 500 VDC	
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 85°C (194°F) -40°C (-40°F) to 90°C (194°F)	
Vibration	0.059" DA at 10–55Hz	
Operating Humidity	20 - 85%RH (non-condensing)	
Shock Operating Non-Operating	10 g 100 g	
Enclosure	P.B.T. polyester	
Terminals	Quick connect terminal	
Max. Solder Temp.	270°C (518°F)	
Max. Solder Time	5 seconds	
Weight	50 grams	

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AZ2505 RELAY ORDERING DATA

COIL SPECIFICATIONS -Single Coil					ORDER NUMBER	
Nominal Coil VDC	Set Voltage VDC	Reset Voltage VDC	Max. Continuous VDC[1]	Coil Resistance ± 10%	1 Form A	1 Form B
5	3.75	4.0	6.5	25	AZ2505P1-1A-5D	AZ2505P1-1B-5D
6	4.50	4.8	7.8	36	AZ2505P1-1A-6D	AZ2505P1-1B-6D
9	6.75	7.2	11.7	81	AZ2505P1-1A-9D	AZ2505P1-1B-9D
12	9.00	9.6	15.6	144	AZ2505P1-1A-12D	AZ2505P1-1B-12D
24	18.00	19.2	31.2	576	AZ2505P1-1A-24D	AZ2505P1-1B-24D

Add suffix 'E' after A or B for 80A contacts, 'H' for 100A contacts, or 'T' for 120A contacts. Add Termination Suffix as seen in Chart below. Note 1: Max continuous voltage should not be applied for more than 30 seconds.

COIL SPECIFICAT	IONS -Dual	ORDER N	UMBER			
Nominal Coil VDC	Set Voltage VDC	Reset Voltage VDC	Max. Continuous VDC[1]	Coil Resistance ± 10%	1 Form A	1 Form B
5	3.75	4.0	6.5	12.5 + 12.5	AZ2505P2-1A-5D	AZ2505P2-1B-5D
6	4.50	4.8	7.8	18 + 18	AZ2505P2-1A-6D	AZ2505P2-1B-6D
9	6.75	7.2	11.7	40.5 + 40.5	AZ2505P2-1A-9D	AZ2505P2-1B-9D
12	9.00	9.6	15.6	72 + 72	AZ2505P2-1A-12D	AZ2505P2-1B-12D
24	18.00	19.2	31.2	288 + 288	AZ2505P2-1A-24D	AZ2505P2-1B-24D

Add suffix 'E' after A or B for 80A contacts, 'H' for 100A contacts, or 'T' for 120A contacts. Add Termination suffix as seen in chart below. Note[1]: Max continuous voltage should not be applied for more than 30 seconds.

TERMINATION OPTIONS

MS	Stationary Contact: Shunt	Moveable Contact: Lead Wire
ΜΗ	Stationary Contact: Shunt	Moveable Contact: Tab
МС	Stationary Contact: Shunt	Moveable Contact: Shunt
WHS	Stationary Contact: Tab	Moveable Contact: Lead Wire
WHH	Stationary Contact: Tab	Moveable Contact: Tab
СН	Stationary Contact: Tab	Moveable Contact: Shunt

NSS	Stationary Contact: Lead Wire	Moveable Contact: Lead Wire
NSH	Stationary Contact: Lead Wire	Moveable Contact: Tab
cs	Stationary Contact: Lead Wire	Moveable Contact: Shunt
* PCB	Printed Circuit Board	Tin Plated Terminals

* Only available in 60A, 80A, and 100A version

MECHANICAL DATA





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www.azettler.com This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.

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