



## INNERSPACE CORPORATION

1138 E. EDNA PLACE, COVINA, CA 91724  
TEL: (626) 331-0921 FAX: (626) 966-6391  
www.innerspacethrusters.com

### 1004B ELECTRIC THRUSTER. 2 HP 240VDC w/Resolver

MOTOR: BDC2240R-02

FEEDBACK: Resolver

Performance Analysis

#### MOTOR PERFORMANCE BASED ON MIN SYSTEM VOLTAGE = 240 VDC

SPEED RPM	VOLTAGE (VDC)	CURRENT (A rms)	TORQUE		THRUST		POWER SHAFT		POWER IN		Efficiency Pout/Pin	CURRENT (A peak)
			N-M	in-lbs	lbs	Kgf	(HP)	(watts)	(watts)	(HP)		
500	27.0	1.2	0.5	4.2	2	1	0.03	25	32	0.0	78.1%	1.5
1000	52.7	2.2	0.9	7.8	6	3	0.12	92	117	0.2	79.3%	2.7
1200	64.4	2.8	1.1	9.9	9	4	0.19	141	180	0.2	78.4%	3.4
1500	83.3	3.9	1.6	13.8	14	7	0.33	245	321	0.4	76.5%	4.8
1800	103.9	5.3	2.1	18.6	21	10	0.53	396	532	0.7	74.4%	6.4
2000	118.6	6.3	2.5	22.2	27	12	0.71	526	722	1.0	72.9%	7.7
2200	134.0	7.4	3.0	26.3	32	15	0.92	684	957	1.3	71.5%	9.1
2400	150.2	8.7	3.5	30.7	39	18	1.17	872	1244	1.7	70.1%	10.6
2500	158.6	9.4	3.7	33.1	42	19	1.31	978	1410	1.9	69.4%	11.5
2600	167.2	10.0	4.0	35.5	46	21	1.47	1093	1591	2.1	68.7%	12.3
2700	175.9	10.8	4.3	38.1	49	22	1.63	1216	1789	2.4	68.0%	13.2
2800	184.9	11.5	4.6	40.7	54	24	1.81	1349	2004	2.7	67.3%	14.1
2900	194.0	12.3	4.9	43.4	57	26	2.00	1491	2237	3.0	66.7%	15.1



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## 2HP 240VDC THRUST OUTPUT

- BDC 2240R-02 w/ AMC DPRANIR30A400

