



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

## 1004B ELECTRIC THRUSTER. 1 HP 150VDC w/Resolver

**MOTOR:** BDC 2150R-01

**FEEDBACK:** Resolver

**Performance Analysis**

**MOTOR PERFORMANCE BASED ON MIN SYSTEM VOLTAGE = 150 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	Meas (lbs)	(HP)	(watts)	(watts)	(HP)		
500	21.0	1.5	0.5	4.2	2	1	2.6	0.03	25	32	0.0	77.4%	1.9
900	36.7	2.5	0.8	6.9	5	2	7.0	0.10	73	93	0.1	79.0%	3.1
1000	41.0	2.9	0.9	7.8	6	3	8.5	0.12	92	117	0.2	78.7%	3.5
1200	50.1	3.7	1.1	9.9	9	4	11.2	0.19	141	181	0.2	77.7%	4.5
1500	64.8	5.1	1.6	13.8	15	7	16.2	0.33	245	324	0.4	75.8%	6.2
1800	81.0	6.8	2.1	18.6	21	10	22.4	0.53	396	538	0.7	73.7%	8.4
2000	92.5	8.2	2.5	22.2	27	12	26.8	0.71	526	729	1.0	72.2%	10.0
2200	104.6	9.7	3.0	26.3	32	15	32.4	0.92	684	968	1.3	70.7%	11.8
2400	117.3	11.3	3.5	30.7	39	18	38.0	1.17	872	1259	1.7	69.3%	13.8
2500	123.9	12.2	3.7	33.1	42	19	41.8	1.31	978	1427	1.9	68.6%	14.9
2600	130.6	13.1	4.0	35.5	46	21	43.6	1.47	1093	1610	2.2	67.9%	16.0



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

## 1 HP 150VDC THRUST OUTPUT

- BDC 2150R-01 Motor w/ AMC DPRANIR30A400

