



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

MAX VOLTAGE: 300 VDC

1004B Electric Thruster with 3300 Motor

SPEED RPM	VOLTAGE (VDC)	CURRENT (A rms)	TORQUE		THRUST		REV THRUST		POWER SHAFT		POWER IN		Efficiency Pout/Pin
			N-M	in-lbs	lbs	Kgf	lbs	Kgf	(HP)	(watts)	(watts)	(HP)	
100	7.3	0.6	0.3	3.0	0	0	0.0	0.0	0.00	4	4	0.0	81.1%
200	12.6	0.6	0.4	3.2	0	0	0.0	0.0	0.01	8	8	0.0	89.1%
300	18.1	0.7	0.4	3.4	1	0	0.5	0.2	0.02	12	13	0.0	91.9%
400	23.5	0.7	0.4	3.8	1	0	0.9	0.4	0.02	18	19	0.0	93.3%
500	29.1	0.8	0.5	4.2	2	1	1.5	0.7	0.03	25	26	0.0	94.0%
600	34.7	0.9	0.5	4.7	2	1	2.0	0.9	0.05	34	36	0.0	94.3%
800	46.1	1.2	0.7	6.1	4	2	4.0	1.8	0.08	58	61	0.1	94.5%
1000	57.8	1.5	0.9	7.8	7	3	6.0	2.7	0.12	92	98	0.1	94.4%
1200	69.7	1.9	1.1	9.9	10	4	9.0	4.1	0.19	141	150	0.2	94.0%
1400	81.9	2.4	1.4	12.4	13	6	12.0	5.4	0.28	206	220	0.3	93.6%
1600	94.3	3.0	1.7	15.3	17	8	15.0	6.8	0.39	290	311	0.4	93.2%
1800	107.0	3.6	2.1	18.6	22	10	20.0	9.1	0.53	396	427	0.6	92.7%
2000	119.9	4.3	2.5	22.2	27	12	24.0	10.9	0.71	526	571	0.8	92.2%
2200	133.1	5.1	3.0	26.3	32	15	29.0	13.2	0.92	684	747	1.0	91.6%
2400	146.6	5.9	3.5	30.7	39	18	35.0	15.9	1.17	872	958	1.3	91.1%
2600	160.3	6.9	4.0	35.5	46	21	41.0	18.6	1.47	1093	1207	1.6	90.5%
2800	174.3	7.9	4.6	40.7	53	24	48.0	21.8	1.81	1349	1499	2.0	90.0%
3000	188.5	8.9	5.2	46.3	61	28	55.0	24.9	2.20	1644	1838	2.5	89.4%
3200	203.0	10.1	5.9	52.3	70	32	63.0	28.6	2.65	1979	2226	3.0	88.9%
3300	210.3	10.7	6.3	55.4	74	34	67.0	30.4	2.90	2163	2441	3.3	88.6%
3400	217.7	11.3	6.6	58.6	79	36	71.0	32.2	3.16	2358	2669	3.6	88.3%

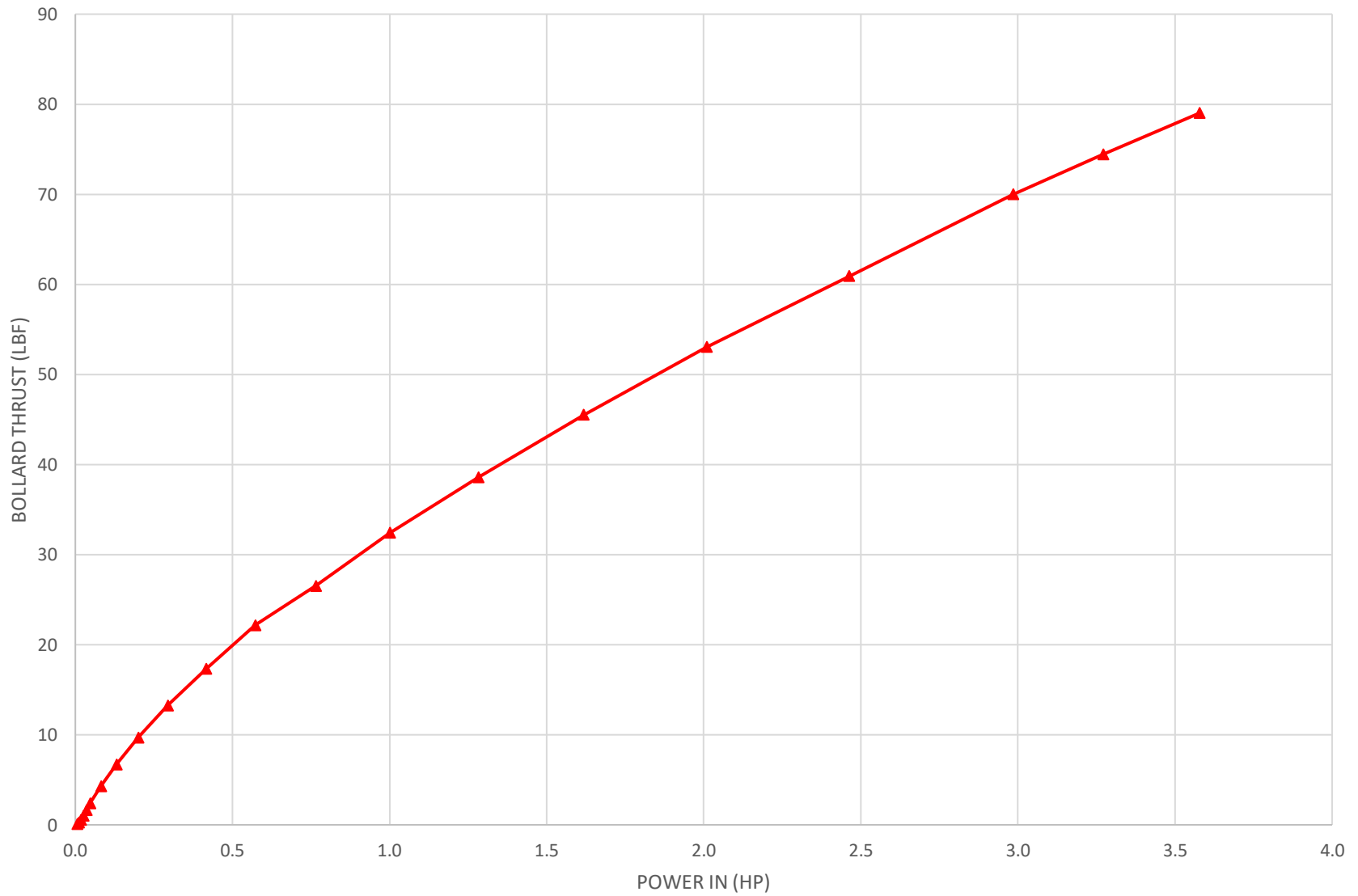
NOTES:

- 1) Voltage in the above chart shows the minimum voltage needed to achieve the performance at that given propeller rpm
- 2) The system voltage should typically be 20-40 VDC higher than the minimum voltage referenced above.
- 3) The Current shown represents the continues RMS current to the motor to achieve the torque at the corresponding propeller rpm.
- 4) The Shaft HP developed is a function of the propeller and increases with propeller rpm.
- 5) The maximum performance achieved will depend on the limitations of customers system voltage and driver current capacity.
- 6) The current/rpm might need to be limited depending on customer connector spec and or system current limitations.



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

1004B-3300 ELECTRIC THRUSTER





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

1004B-3300 ELECTRIC THRUSTER

