



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

MAX VOLTAGE: 150 VDC

1004B Electric Thruster with 3150 Motor

SPEED RPM	VOLTAGE (VDC)	CURRENT (A rms)	TORQUE		FWD THRUST		REV THRUST		POWER SHAFT		POWER IN		Efficiency Pout/Pin
			N-M	in-lbs	lbs	Kgf	lbs	Kgf	(HP)	(watts)	(watts)	(HP)	
100	5.0	0.9	0.3	3.0	0	0	0.0	0.0	0.00	4	5	0.0	79.5%
200	8.6	0.9	0.4	3.2	0	0	0.0	0.0	0.01	8	9	0.0	88.1%
300	12.3	1.0	0.4	3.4	1	0	0.5	0.2	0.02	12	13	0.0	91.2%
400	16.0	1.1	0.4	3.8	1	0	0.9	0.4	0.02	18	19	0.0	92.6%
500	19.7	1.2	0.5	4.2	2	1	1.5	0.7	0.03	25	27	0.0	93.4%
600	23.5	1.4	0.5	4.7	2	1	2.0	0.9	0.05	34	36	0.0	93.7%
800	31.3	1.7	0.7	6.1	4	2	4.0	1.8	0.08	58	61	0.1	94.0%
1000	39.2	2.2	0.9	7.8	7	3	6.0	2.7	0.12	92	99	0.1	93.8%
1200	47.3	2.9	1.1	9.9	10	4	9.0	4.1	0.19	141	151	0.2	93.4%
1400	55.6	3.6	1.4	12.4	13	6	12.0	5.4	0.28	206	221	0.3	93.0%
1600	64.1	4.4	1.7	15.3	17	8	15.0	6.8	0.39	290	314	0.4	92.5%
1800	72.8	5.3	2.1	18.6	22	10	20.0	9.1	0.53	396	431	0.6	92.0%
2000	81.7	6.4	2.5	22.2	27	12	24.0	10.9	0.71	526	576	0.8	91.4%
2200	90.7	7.6	3.0	26.3	32	15	29.0	13.2	0.92	684	754	1.0	90.8%
2400	100.0	8.8	3.5	30.7	39	18	35.0	15.9	1.17	872	967	1.3	90.2%
2600	109.4	10.2	4.0	35.5	46	21	41.0	18.6	1.47	1093	1219	1.6	89.6%
2800	119.1	11.7	4.6	40.7	53	24	48.0	21.8	1.81	1349	1515	2.0	89.0%

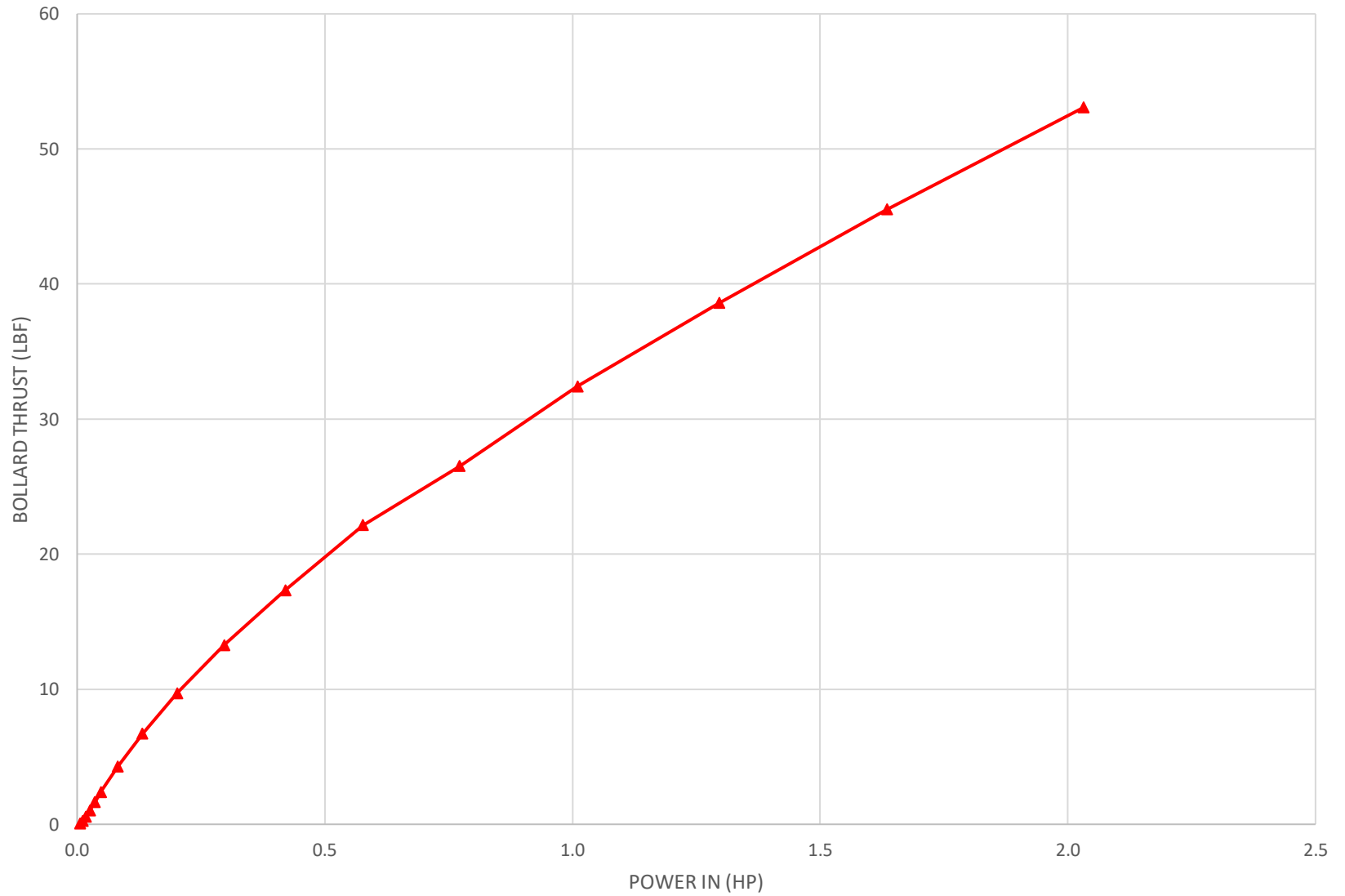
NOTES:

- 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-3150 ELECTRIC THRUSTER





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

1004B-3150 ELECTRIC THRUSTER

