



INNERSPACE CORPORATION

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

INNERSPACE BDC 13240-05

INNERSPACE - 5HP - 240VDC - 1002 ELECTRIC THRUSTER

Thruster Detail

MOTOR TYPE: **3 Phase BDC**
BUS VOLTAGE: **200-260 VDC**
THRUSTER DIA: **14.5 inch**
LENGTH: **22 inch**

Performance

Max Current: **25.0 Amps**
Max THRUST: **320 lbs**
TOTAL DRY WEIGHT: **56 lbs**
TOTAL WET WEIGHT: **41 lbs**

Reference Operating Point

SPEED: **1600 RPM**
POWER IN: **4300 Watts**
MIN VOLTAGE: **200 VDC**
CURRENT: **18.4 Amps**

Command SPEED (RPM)	Motor Voltage (Peak)	Current (A rms)	Motor SPEED RPM	Torque		Thrust			SHAFT POWER		POWER IN (watts)	POWER IN (HP)	Efficiency Pout/Pin
				N-M	in-lbs	lbf	Kgf	N	(HP)	(watts)			
750	89	4.6	750	5.9	52.3	48	22	214	0.62	465	485	0.7	95.8%
1000	121	7.6	1000	9.8	86.8	86	39	384	1.38	1028	1084	1.5	94.8%
1100	134	9.1	1100	11.7	103.4	106	48	470	1.80	1346	1425	1.9	94.4%
1200	147	10.6	1200	13.7	121.5	127	58	565	2.31	1726	1836	2.5	94.0%
1300	160	12.4	1300	16.0	141.2	151	68	670	2.91	2173	2321	3.1	93.6%
1400	174	14.2	1400	18.4	162.5	177	80	786	3.61	2693	2889	3.9	93.2%
1500	188	16.2	1500	20.9	185.3	204	92	907	4.41	3291	3546	4.8	92.8%
1600	202	18.4	1600	23.7	209.8	233	106	1037	5.33	3973	4300	5.8	92.4%
1650	209	19.5	1650	25.2	222.6	249	113	1108	5.83	4347	4716	6.3	92.2%
1700	216	20.7	1700	26.6	235.8	266	121	1183	6.36	4745	5158	6.9	92.0%
1750	223	21.8	1750	28.2	249.4	283	128	1260	6.92	5166	5629	7.5	91.8%
1800	230	23.1	1800	29.8	263.4	301	137	1340	7.52	5611	6128	8.2	91.6%
1850	237	24.3	1850	31.4	277.8	320	145	1422	8.15	6082	6656	8.9	91.4%
1900	245	25.6	1900	33.1	292.5	339	154	1508	8.82	6579	7216	9.7	91.2%