

# MTI MOTION BRUSHLESS HIGH-PERFORMANCE DC MOTORS

MODEL NO.	MAX. CONTINUOUS STALL TORQUE, $T_{cs}$	INERTIA, $J_m$	MOTOR CONSTANT, $K_m$	THERMAL RESISTANCE, $t_r$
	OZ-IN	OZ-IN-S <sup>2</sup> X10 <sup>-4</sup>	OZ-IN/WATT <sup>1/2</sup>	°C/W
<b>Size 7, 4 pole</b>				
BLHP-07-01-4P	0.91	0.12	0.53	24.5
BLHP-07-02-4P	1.68	0.18	0.93	21.9
BLHP-07-03-4P	2.4	0.23	1.27	20
<b>Size 11, 6 pole</b>				
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BLHP-11-01-6P	3.64	0.3	1.42	11
BLHP-11-02-6P	7.19	0.45	2.63	9.6
BLHP-11-03-6P	10.39	0.6	3.63	8.8
BLHP-11-04-6P	13.16	0.76	4.42	8.1
BLHP-11-05-6P	15.79	0.91	5.13	7.6
<b>Size 13, 4 pole</b>				
BLHP-13-01-4P	4.53	1.1	1.61	9.1
BLHP-13-02-4P	8.12	1.5	2.79	8.5
BLHP-13-03-4P	11.22	1.9	3.74	8
BLHP-13-04-4P	14.14	2.3	4.6	7.6
BLHP-13-05-4P	17.11	2.7	5.41	7.2
BLHP-13-06-4P	19.96	3.13	6.17	6.9
BLHP-13-07-4P	22.74	3.55	6.9	6.6
BLHP-13-08-4P	25.62	3.98	7.58	6.3
BLHP-13-09-4P	28.45	4.4	8.23	6
BLHP-13-10-4P	31.44	4.8	8.85	5.7
<b>Size 15, 4 pole</b>				
BLHP-15-01-4P	5.42	0.45	1.7	7.1
BLHP-15-02-4P	10.24	0.82	3.05	6.4
BLHP-15-03-4P	15.42	1.2	4.42	5.9
BLHP-15-04-4P	20.4	1.6	5.59	5.4
BLHP-15-05-4P	26.66	2.1	7.1	5.1

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	OZ-IN	OZ-IN-S <sup>2</sup> X10 <sup>-4</sup>	OZ-IN/WATT <sup>1/2</sup>	°C/W
<b>Size 15, 4 pole (continued)</b>				
BLHP-15-07-4P	36.33	2.9	8.78	4.2
BLHP-15-11-4P	53.65	4.5	11.83	3.5
<b>Size 15, 6 pole</b>				
BLHP-15-01-6P	8	1.2	2.5	7
BLHP-15-02-6P	14.82	1.7	4.42	6.4
BLHP-15-03-6P	20.4	2.3	5.84	5.9
BLHP-15-04-6P	26.78	2.9	7.34	5.4
BLHP-15-05-6P	34.12	3.5	9	5
BLHP-15-07-6P	46.52	4.6	11.24	4.2
BLHP-15-11-6P	66.01	6.9	14.56	3.5
<b>Size 20, 8 pole</b>				
BLHP-20-01-8P	16.02	0.64	4.39	5.4
BLHP-20-02-8P	30.78	11	8.03	4.9
BLHP-20-03-8P	43.22	16	10.81	4.5
BLHP-20-04-8P	56.27	21	13.27	4
BLHP-20-05-8P	68.32	26	15.7	3.8
<b>Size 20, 4 pole</b>				
BLHP-20-02-4P	21.24	11.7	5.6	5
BLHP-20-05-4P	61.68	22.4	11.03	2.3
BLHP-20-07-4P	92.59	33.2	15.82	2.1
<b>Size 24, 12 pole</b>				
BLHP-24-01-12P	29.06	18	6.77	3.9
BLHP-24-02-12P	54.08	31	11.93	3.5
BLHP-24-03-12P	73.64	43	16.01	3.4
BLHP-24-04-12P	94.79	55	19.68	3.1
<b>Size 29, 12 pole</b>				
BLHP-29-01-12P	59.44	45	11.93	2.9

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	OZ-IN	OZ-IN-S <sup>2</sup> X10 <sup>-4</sup>	OZ-IN/WATT <sup>1/2</sup>	°C/W
<b>Size 29, 12 pole (continued)</b>				
BLHP-29-02-12P	112.58	78	21.4	2.6
BLHP-29-04-12P	157.33	110	28.74	2.4
<b>Size 38, 12 pole</b>				
BLHP-38-01-12P	125.9	99	20.99	2
BLHP-38-03-12P	227.93	177	36.05	1.8