








MODEL	DIAMETER in (mm)	AVAILABLE LENGTH in (mm)	VOLTAGE RATINGS VDC	RANGE RATED TORQUE		
						
						
						
						
						
						

Silencer® Series Brushless DC High Speed Motors

MODEL	DIAMETER						
							

HIGH PERFORMANCE DIRECT DRIVE BRUSHLESS DC MOTORS



DB Matrix™ Series Motors

MODEL	PEAK TORQUE, T _P oz-in (Nm)	Amps @ PEAK TORQUE, I _P amps	TORQUE SENS., K _T oz-in/amp (Nm/amp)	MOTOR CONST., K _M oz-in/√W (Nm/√W)	WEIGHT oz (nom) (kg)	OD in (mm)	ID in (mm)	STACK LENGTH in (mm)
B-1500	21 - 212 (0.15 - 1.48)	15.0	1.43 - 14.1 (0.01 - 0.10)	2.76 - 14.66 (0.02 - 0.10)	2.7 - 15 (0.08 - 0.43)	1.5 (38.1)	0.250 (6.35)	0.25 - 2.5 (6.35 - 63.5)
B-2000	34.4 - 376 (0.24 - 2.63)	5.0	6.89 - 75.2 (0.05 - 0.53)	4.75 - 25.7 (0.03 - 0.18)	4.0 - 33 (0.11 - 0.93)	2.0 (50.80)	0.375 (9.53)	0.25 - 3.0 (6.35 - 76.2)
B ₂ -2000	43 - 377 (0.30 - 2.64)	5.0	8.60 - 75.5 (0.06 - 0.53)	5.93 - 25.8 (0.04 - 0.18)	4.6 - 34 (0.13 - 0.96)	2.0 (50.80)	0.375 (9.53)	0.25 - 3.0 (6.35 - 76.2)
B-3000	151 - 1210 (1.06 - 8.47)	10.0	15.1 - 121 (0.11 - 0.85)	10.4 - 51.2 (0.07 - 0.36)	8.0 - 41.0 (0.23 - 1.16)	3.0 (76.2)	1.250 (31.75)	0.25 - 2.0 (6.35 - 50.8)
B-4000	2,000 - 5,000 (14 - 35)	30.1	66.5 - 166.1 (0.47 - 1.16)	67.2 - 129.7 (0.47 - 0.91)	5.9 - 13.6 (0.17 - 0.39)	4.0 (101.6)	0.44 (11.18)	2.0 - 5.0 (50.8 - 127.0)
B-5000	578 - 9,024 (4.08 - 63.74)	8.0	72.0 - 1,128 (0.51 - 7.96)	22.2 - 186 (0.155 - 1.31)	31 - 255 (0.87 - 7.22)	5.0 (127)	2.0 (50.8)	0.25 - 4.05 (6.35 - 102.8)
B-6000	1,686 - 10,083 (11.80 - 70.58)	20.0	84.3 - 504.0 (0.59 - 3.53)	84.0 - 270.0 (0.59 - 1.89)	33.7 - 156 (0.95 - 4.42)	6.0 (152.4)	4.0 (101.6)	0.45 - 2.95 (11.43 - 74.93)
B ₂ -6000	1,686 - 10,083 (11.80 - 70.58)	20.0	84.3 - 504.0 (0.59 - 3.53)	84.0 - 270.0 (0.59 - 1.89)	45 - 168 (1.26 - 4.73)	6.0 (152.4)	4.0 (101.6)	0.45 - 2.95 (11.43 - 74.93)
B-8000	3,619 - 17,979 (25.33 - 125.85)	14.6	250.0 - 1,223.0 (1.75 - 8.56)	149.0 - 456.0 (1.04 - 3.19)	83.2 - 328 (2.36 - 9.28)	8.0 (203.2)	5.0 (127)	0.5 - 2.5 (12.7 - 63.5)
B ₂ -8000	3,619 - 17,979 (25.33 - 125.85)	14.5	250.0 - 1,223.0 (1.75 - 8.56)	149.0 - 456.0 (1.04 - 3.19)	83.2 - 328 (2.36 - 9.28)	8.0 (203.2)	5.0 (127)	0.5 - 2.5 (12.7 - 63.5)
B-9000	5,102 - 30,665 (35.71 - 214.66)	20.0	255.0 - 1,533.0 (1.79 - 10.73)	176.0 - 636.0 (1.23 - 4.45)	75.0 - 357.0 (2.12 - 10.10)	9.0 (228.6)	6.375 (161.93)	1.6 - 2.95 (40.64 - 74.93)
B-14540	2,1674 - 10,8319 (151.72 - 758.23)	34.0	639.0 - 3,149.0 (4.47 - 22.04)	324.0 - 1,142.0 (2.27 - 7.99)	171.0 - 720.0 (4.84 - 20.38)	14.540 (369.32)	11.46 (291.08)	0.5 - 2.5 (12.7 - 63.5)
B-22000	102660 - 678689 (725 - 4793)	40.0	2573 - 16974 (18.17 - 119.87)	1218 - 4743 (8.60 - 33.49)	768 - 3968 (21.5 - 111.1)	22.0 (559)	17.50 (445)	1.00 - 7.00 (25.4 - 177.8)

FRAMELESS PERMANENT MAGNET ALTERNATORS

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AC



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Low Cost Brushless Pancake Resolvers



GEARHEADS

