

## GLENTEK GMB & GMBF BRUSHLESS SERVO MOTOR SELECTION TABLE

Model Number	Power @ Rated Speed		Speed, RPM		Cont. Stall Rating			Peak Stall Rating			K <sub>T</sub>		K <sub>V</sub>	R <sub>A</sub>	L <sub>A</sub>	Rotor Inertia	
	HP	KW	Max	Rated	Lb-in	Nm	Amps	Lb-in	Nm	Amps	Lb-in/A	Nm/A	V	Ω	mH	Lb-in-sec <sup>2</sup>	Kg-m <sup>2</sup>
<b>GMB2005-8</b>	0.16	0.12	5000	4000	2.4	0.27	2.7	7.2	0.81	8.1	0.90	0.10	8	6.3	5.8	0.000054	0.000006
<b>GMB2005-17</b>	0.16	0.12	5000	4000	2.4	0.27	1.2	7.2	0.81	3.6	1.92	0.22	17	26.0	25	0.000054	0.000006
<b>GMB2010-8</b>	0.34	0.25	5000	4000	5	0.56	5.5	15	1.68	16.5	0.90	0.10	8	1.8	2.3	0.000074	0.000008
<b>GMB2010-17</b>	0.34	0.25	5000	4000	5	0.56	2.6	15	1.68	7.8	1.92	0.22	17	8.1	9.3	0.000074	0.000008
<b>GMB2010-28</b>	0.34	0.25	5000	4000	5	0.56	1.6	15	1.68	4.8	3.16	0.36	28	20.0	23	0.000074	0.000008
<b>GMB2015-8</b>	0.48	0.36	5000	4000	7	0.79	7.7	21	2.37	23.1	0.90	0.10	8	0.9	1.6	0.000099	0.000011
<b>GMB2015-17</b>	0.48	0.36	5000	4000	7	0.79	3.6	21	2.37	10.8	1.92	0.22	17	5.3	8.3	0.000099	0.000011
<b>GMB2020-8</b>	0.69	0.51	5000	4000	10	1.13	11.1	30	3.39	33.3	0.90	0.10	8	0.6	0.9	0.000113	0.000013
<b>GMB2020-17</b>	0.69	0.51	5000	4000	10	1.13	5.2	30	3.39	15.6	1.92	0.22	17	3.0	4.7	0.000113	0.000013
<b>GMB2020-28</b>	0.69	0.51	5000	4000	10	1.13	3.2	30	3.39	9.6	3.16	0.36	28	7.8	14	0.000113	0.000013
<b>GMB3515-23</b>	1.10	0.82	5000	4000	16	1.81	6.2	48	5.43	18.6	2.60	0.29	23	1.3	4.6	0.00059	0.000067
<b>GMB3515-38</b>	1.10	0.82	5000	4000	16	1.81	3.8	48	5.43	11.4	4.25	0.48	37	3.6	13.5	0.00059	0.000067
<b>GMB3515-75</b>	0.55	0.41	2500	2000	16	1.81	1.9	48	5.43	5.7	8.50	0.96	75	9.3	36	0.00059	0.000067
<b>GMB3530-24</b>	2.07	1.54	5000	4000	30	3.39	11.1	90	10.17	33.3	2.71	0.31	24	0.5	2.5	0.0010	0.000113
<b>GMB3530-37</b>	2.07	1.54	5000	4000	30	3.39	7.3	90	10.17	21.9	4.14	0.47	36	1.3	5.8	0.0010	0.000113
<b>GMB3530-48</b>	1.65	1.23	4000	3200	30	3.39	5.5	90	10.17	16.5	5.42	0.61	48	2.5	10.3	0.0010	0.000113
<b>GMB3530-73</b>	1.03	0.77	2500	2000	30	3.39	3.6	90	10.17	10.8	8.27	0.93	73	3.1	16	0.0010	0.000113
<b>GMB3545-25</b>	2.69	2.00	5000	4000	39	4.41	13.8	117	13.23	41.4	2.82	0.32	25	0.5	2.1	0.0014	0.000158
<b>GMB3545-50</b>	2.15	1.60	4000	3200	39	4.41	6.9	117	13.23	20.7	5.65	0.64	50	1.1	5.6	0.0014	0.000158
<b>GMB3545-110</b>	0.94	0.70	1800	1400	39	4.41	3.1	117	13.23	9.3	12.43	1.40	110	6.5	33.6	0.0014	0.000158
<b>GMBF4320-25</b>	1.21	0.91	4000	3200	22	2.49	7.5	66	7.47	22.5	2.94	0.33	26	1.1	8.4	0.0032	0.000362
<b>GMBF4320-50</b>	1.21	0.91	4000	3200	22	2.49	3.8	66	7.47	11.4	5.76	0.65	51	4.7	14.7	0.0032	0.000362
<b>GMBF4320-75</b>	0.76	0.57	2500	2000	22	2.49	2.6	66	7.47	7.8	8.47	0.96	75	11.0	39.5	0.0032	0.000362
<b>GMBF4320-100</b>	0.53	0.40	1800	1400	22	2.49	1.9	66	7.47	5.7	11.41	1.29	101	18.5	43.8	0.0032	0.000362
<b>GMBF4340-25</b>	1.98	1.48	4000	3200	36	4.07	12.3	108	12.21	36.9	2.94	0.33	26	0.4	5.2	0.0059	0.000667
<b>GMBF4340-50</b>	1.98	1.48	4000	3200	36	4.07	6.2	108	12.21	18.6	5.76	0.65	51	2.1	14	0.0059	0.000667
<b>GMBF4340-75</b>	1.24	0.92	2500	2000	36	4.07	4.2	108	12.21	12.6	8.47	0.96	75	4.1	36.3	0.0059	0.000667
<b>GMBF4340-100</b>	0.87	0.65	1800	1400	36	4.07	3.2	108	12.21	9.6	11.41	1.29	101	7.0	41.2	0.0059	0.000667
<b>GMBF4360-25</b>	2.53	1.89	4000	3200	46	5.20	23.9	138	15.60	71.7	1.92	0.22	25	0.1	3.6	0.0086	0.000972
<b>GMBF4360-50</b>	2.53	1.89	4000	3200	46	5.20	8.0	138	15.60	24.0	5.76	0.65	51	1.0	11.9	0.0086	0.000972
<b>GMBF4360-75</b>	1.58	1.18	2500	2000	46	5.20	5.5	138	15.60	16.5	8.36	0.94	74	2.3	19.8	0.0086	0.000972
<b>GMBF4360-100</b>	1.11	0.83	1800	1400	46	5.20	4.1	138	15.60	12.3	11.30	1.28	100	3.9	28.7	0.0086	0.000972
<b>GMB4525-34</b>	3.78	2.82	5000	4000	55	6.21	14.3	165	18.63	42.9	3.84	0.43	34	0.6	3.5	0.0026	0.000294
<b>GMB4525-55</b>	2.65	1.98	3500	2800	55	6.21	8.9	165	18.63	26.7	6.21	0.70	55	1.8	11.2	0.0026	0.000294
<b>GMB4525-110</b>	1.32	0.99	1800	1400	55	6.21	4.4	165	18.63	13.2	12.43	1.40	110	7.2	39.8	0.0026	0.000294
<b>GMB4550-37</b>	5.72	4.26	5000	4000	83	9.38	19.9	249	28.14	59.7	4.18	0.47	37	0.2	1.8	0.0051	0.000576
<b>GMB4550-55</b>	4.00	2.98	3500	2800	83	9.38	13.4	249	28.14	40.2	6.21	0.70	55	0.6	4.9	0.0051	0.000576
<b>GMB4550-74</b>	2.86	2.13	2500	2000	83	9.38	9.9	249	28.14	29.7	8.36	0.94	74	1.1	8.3	0.0051	0.000576
<b>GMB4550-110</b>	2.00	1.49	1800	1400	83	9.38	6.7	249	28.14	20.1	12.43	1.40	110	2.6	17	0.0051	0.000576

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	HP	KW	Max	Rated	Lb-in	Nm	Amps	Lb-in	Nm	Amps	Lb-in/A	Nm/A	V	Ω	mH	Lb-in-sec <sup>2</sup>	Kg-m <sup>2</sup>
<b>GMB4560-50</b>	5.51	4.11	4000	3200	100	11.30	19.2	300	33.90	57.6	5.20	0.58	50	0.4	2.8	0.0064	0.000727
<b>GMB4560-90</b>	2.93	2.18	2100	1700	100	11.30	9.8	300	33.90	29.4	10.17	1.15	90	1.1	9.7	0.0064	0.000727
<b>GMB4575-35</b>	7.99	5.96	5000	4000	116	13.11	29.3	348	39.33	87.9	3.95	0.45	35	0.1	1.1	0.0074	0.000836
<b>GMB4575-55</b>	5.59	4.17	3500	2800	116	13.11	18.7	348	39.33	56.1	6.21	0.70	55	0.3	2.5	0.0074	0.000836
<b>GMB4575-70</b>	4.39	3.28	2700	2200	116	13.11	14.7	348	39.33	44.1	7.91	0.89	70	0.5	4.4	0.0074	0.000836
<b>GMB4575-110</b>	2.80	2.08	1800	1400	116	13.11	9.3	348	39.33	27.9	12.43	1.40	110	1.7	13.4	0.0074	0.000836
<b>GMBF5030-25</b>	1.57	1.17	3500	2800	33	3.68	11.5	98	11.04	34.5	2.82	0.32	25	0.7	3.1	0.014	0.001582
<b>GMBF5030-50</b>	1.57	1.17	3500	2800	33	3.68	5.8	98	11.04	17.4	5.65	0.64	50	2.3	10.2	0.014	0.001582
<b>GMBF5030-61</b>	1.35	1.00	3000	2400	33	3.68	4.4	98	11.04	13.2	7.46	0.84	66	4.6	19.9	0.014	0.001582
<b>GMBF5030-75</b>	1.12	0.84	2500	2000	33	3.68	3.8	98	11.04	11.4	8.47	0.96	75	4.8	23	0.014	0.001582
<b>GMBF5040-25</b>	1.93	1.44	3500	2800	40	4.52	14.2	120	13.56	42.6	2.82	0.32	25	0.3	3	0.019	0.002147
<b>GMBF5040-50</b>	1.93	1.44	3500	2800	40	4.52	7.1	120	13.56	21.3	5.65	0.64	50	1.4	12	0.019	0.002147
<b>GMBF5040-75</b>	1.38	1.03	2500	2000	40	4.52	4.7	120	13.56	14.1	8.47	0.96	75	3.5	28	0.019	0.002147
<b>GMBF5060-25</b>	3.61	2.69	3500	2800	75	8.47	26.6	225	25.41	79.8	2.82	0.32	25	0.2	2	0.028	0.003164
<b>GMBF5060-50</b>	3.61	2.69	3500	2800	75	8.47	13.3	225	25.41	39.9	5.65	0.64	50	0.9	7	0.028	0.003164
<b>GMBF5060-75</b>	2.58	1.92	2500	2000	75	8.47	8.9	225	25.41	26.7	8.47	0.96	75	2.1	11	0.028	0.003164
<b>GMB5627-70</b>	4.93	3.67	2700	2200	130	14.70	11.7	390	44.10	35.1	11.1	1.26	70	0.54	3.5	0.0111	0.00125
<b>GMB5627-115</b>	3.13	2.34	1700	1400	130	14.70	7.1	390	44.10	21.3	18.3	2.06	115	1.5	10.0	0.0111	0.00125
<b>GMB5654-70</b>	7.94	5.92	2700	2200	210	23.70	18.9	630	71.10	56.7	11.1	1.26	70	0.20	1.6	0.0197	0.00223
<b>GMB5654-115</b>	5.05	3.77	1700	1400	210	23.70	11.5	630	71.10	34.4	18.3	2.06	115	0.50	4.1	0.0197	0.00223
<b>GMB5681-80</b>	9.15	6.82	2400	1900	280	31.60	22.0	840	94.80	66.0	12.7	1.44	80	0.17	1.5	0.0287	0.00324
<b>GMB5681-115</b>	6.74	5.03	1700	1400	280	31.60	15.3	840	94.80	45.9	18.3	2.06	115	0.34	2.9	0.0287	0.00324
<b>GMB56108-80</b>	11.78	8.78	2400	1900	360	40.70	28.3	1080	122.10	84.9	12.7	1.44	80	0.12	1.1	0.0370	0.00418
<b>GMB56108-115</b>	8.68	6.47	1700	1400	360	40.70	19.7	1080	122.10	59.1	18.3	2.06	115	0.22	1.9	0.0370	0.00418
<b>GMB7530-80</b>	13.08	9.75	2400	1900	400	45.20	31.5	1200	135.60	94.5	12.7	1.44	80	0.25	2.3	0.0432	0.00488
<b>GMB7530-162</b>	6.88	5.13	1200	1000	400	45.20	15.6	1200	135.60	46.8	25.7	2.91	162	0.95	9.0	0.0432	0.00488
<b>GMB7560-80</b>	20.92	15.60	2400	1900	640	72.30	50.4	1920	216.90	140.2	12.7	1.44	80	0.09	1.00	0.0750	0.00848
<b>GMB7560-162</b>	11.01	8.21	1200	1000	640	72.30	24.9	1920	216.90	74.7	25.7	2.91	162	0.36	4.0	0.0750	0.00848
<b>GMB7590-80</b>	28.77	21.45	2400	1900	880	99.40	69.3	2640	298.20	140.2	12.7	1.44	80	0.05	0.65	0.1082	0.01223
<b>GMB7590-162</b>	15.14	11.29	1200	1000	880	99.40	34.2	2640	298.20	102.6	25.7	2.91	162	0.19	2.6	0.1082	0.01223
<b>GMB75120-108</b>	26.32	19.62	1800	1400	1092	123.40	63.5	3276	370.20	103.5	17.2	1.94	108	0.06	0.84	0.1397	0.01579
<b>GMB75120-162</b>	18.80	14.02	1200	1000	1092	123.40	43.0	3276	370.20	127.5	25.7	2.91	162	0.14	1.9	0.1397	0.01579
<b>GMB75120-248*</b>	8.41	6.27	800	600	1092	123.30	27.7	4412	498.5	112	39.4	4.45	248	0.37	4.4	0.1397	0.01579

**Note:** The values for Max and Rated Speed are for motors operated with a 220 VAC power supply. Values for motors denoted with an asterisk (\*) are for 460 VAC.

All ratings are based on a 25°C ambient temperature and with the motor face mounted to a 14" x 14" x 3/4" aluminum heatsink.

K<sub>T</sub> = Torque Constant • K<sub>V</sub> = B<sub>EMF</sub> = Volts/1000 RPM • R<sub>A</sub> = Phase to Phase Resistance • L<sub>A</sub> = Phase to Phase Inductance