

BRUSHLESS SERVO MOTOR SELECTION TABLE FOR GMBM SERIES

Brushless Servo Motor Selection Table for GMBM Series

Model Number	Rated Power	Speed, RPM		Cont. Stall Rating			Peak Stall Torque		Peak Stall Current	KT		KV	RA	LA	Rotor Intertia	
		W	Max	Rated	Lb-in	Nm	Amps	Lb-in		Nm	Amps				Lb-in/A	Nm/A
GMBM40030-8	30	5000	3000	0.94	0.11	1.07	2.82	0.32	3.21	0.876	0.099	7.8	11.69	8.54	0.0000145	0.0167
GMBM40050-11	50	5000	3000	1.51	0.17	1.20	4.53	0.51	3.60	1.257	0.142	10.6	9.43	8.27	0.0000213	0.0245
GMBM40100-13	100	5000	3000	3.03	0.34	1.38	9.09	1.03	4.14	2.193	0.248	12.7	6.89	6.73	0.0000378	0.0435
GMBM60100-14	100	5000	3000	3.00	0.34	1.65	9.00	1.02	4.95	1.820	0.206	13.6	2.50	7.37	0.0001007	0.1160
GMBM60200-30	200	5000	3000	6.01	0.68	1.63	18.0	2.03	4.89	3.687	0.417	29.2	4.15	15.21	0.0001614	0.1860
GMBM60400-29	400	5000	3000	11.8	1.33	2.89	35.4	4.00	8.67	4.073	0.460	29.5	1.64	7.32	0.0002838	0.3270
GMBM80400-29	400	5000	3000	11.7	1.32	2.82	35.1	3.97	8.46	4.164	0.471	29.3	2.42	16.22	0.0005972	0.6880
GMBM80600-35	600	5000	3000	17.6	1.99	3.58	52.8	5.97	10.7	4.906	0.554	35.2	1.43	9.18	0.0009669	1.1140
GMBM80800-36	800	5000	3000	23.4	2.64	4.83	70.2	7.93	14.5	4.842	0.547	35.6	0.87	5.94	0.0013367	1.5400
GMBM801000-39	1000	5000	3000	29.4	3.32	5.37	88.2	9.97	16.1	5.466	0.618	39.2	0.75	5.04	0.0017064	1.9660
GMBM80300-34	300	3000	2000	13.2	1.49	2.59	39.6	4.47	7.77	5.089	0.575	34.2	3.20	19.60	0.0005972	0.6880
GMBM80500-43	500	3000	2000	19.7	2.23	3.23	59.1	6.68	9.69	6.112	0.691	43.3	2.00	13.43	0.0009669	1.1140
GMBM80550-45	550	3000	2000	23.7	2.68	3.82	71.1	8.03	11.5	6.196	0.700	44.6	1.29	9.06	0.0013367	1.5400
GMBM80650-46	650	3000	2000	28.0	3.16	4.42	84.0	9.49	13.3	6.346	0.717	45.7	1.02	6.90	0.0017064	1.9660
GMBM130900-35	900	5000	3000	26.2	2.96	4.95	78.6	8.88	14.9	5.286	0.597	35.3	0.89	7.87	0.0058978	6.7950
GMBM1301500-39	1500	5000	3000	43.2	4.88	8.23	129.6	14.6	24.7	5.251	0.593	38.6	0.41	4.11	0.0106273	12.2440
GMBM1302200-38	2200	5000	3000	63.1	7.13	11.98	189.3	21.4	35.9	5.269	0.595	37.8	0.23	2.53	0.0153569	17.6930
GMBM1303000-37	3000	5000	3000	85.8	9.70	17.16	257.4	29.1	51.5	4.999	0.565	37.3	0.15	1.82	0.0200864	23.1420
GMBM130600-46	600	3000	2000	26.1	2.95	3.970	78.3	8.85	11.9	6.570	0.742	45.6	1.55	12.98	0.0058978	6.7950
GMBM1301100-53	1100	3000	2000	47.5	5.37	6.280	142.5	16.1	18.8	7.560	0.854	53.1	0.77	7.76	0.0106273	12.2440
GMBM1301600-54	1600	3000	2000	68.7	7.76	9.230	206.1	23.3	29.7	7.447	0.842	54.2	0.47	5.27	0.0153569	17.6930
GMBM1302200-54	2200	3000	2000	94.5	10.7	12.37	283.5	32.0	37.1	7.638	0.863	53.9	0.30	3.82	0.0200864	23.1420
GMBM130450-46	450	3000	1500	26.1	2.95	3.970	78.3	8.85	11.9	6.570	0.742	45.6	1.55	12.98	0.0058978	6.7950
GMBM130850-53	850	3000	1500	48.9	5.53	6.470	146.7	16.6	19.4	7.560	0.854	53.1	0.77	7.76	0.0106273	12.2440
GMBM1301300-54	1300	3000	1500	74.4	8.41	10.00	223.2	25.2	30.0	7.438	0.840	54.2	0.47	5.27	0.0153569	17.6930
GMBM1301700-54	1700	3000	1500	97.4	11.0	12.75	292.2	33.0	38.3	7.638	0.863	53.9	0.30	3.82	0.0200864	23.1420
GMBM130300-71	300	2000	1000	26.5	2.99	2.510	79.5	8.98	7.53	10.563	1.194	71.0	3.44	30.53	0.0058978	6.7950
GMBM130600-86	600	2000	1000	52.4	5.92	4.150	157.2	17.8	12.5	12.620	1.426	85.8	1.89	20.07	0.0106273	12.2440
GMBM130900-95	900	2000	1000	78.1	8.83	5.780	234.3	26.5	17.3	13.514	1.527	94.6	1.41	15.99	0.0153569	17.6930
GMBM1301200-90	1200	2000	1000	103.8	11.7	7.630	311.4	35.2	22.9	13.610	1.538	90.0	0.87	10.67	0.0200864	23.1420
GMBM1803000-37	3000	5000	3000	89.3	10.1	16.70	267.9	30.3	50.1	5.347	0.604	36.7	0.11	1.72	0.0272106	31.3500
GMBM1805000-36	5000	5000	3000	148.9	16.8	27.40	446.7	50.5	82.2	5.433	0.614	36.4	0.05	0.90	0.0461409	53.1600
GMBM1802200-50	2200	3000	2000	98.4	11.1	13.50	295.2	33.4	40.5	7.291	0.824	49.8	0.22	3.21	0.0272106	31.3500
GMBM1803500-56	3500	3000	2000	152.0	17.2	18.83	456.0	51.5	56.5	8.072	0.912	55.5	0.11	2.04	0.0461409	53.1600
GMBM1805500-56	5500	3000	2000	242.1	27.4	30.25	726.3	82.1	90.8	8.003	0.904	55.6	0.06	1.14	0.0739851	85.2400
GMBM1807500-66	7500	2500	2000	328.6	37.1	34.60	985.8	111.4	103.8	9.496	1.073	66.3	0.05	1.13	0.1074016	123.7400
GMBM1801800-80	1800	3000	1500	104.6	11.8	14.70	313.8	35.5	44.1	7.117	0.804	79.8	0.22	3.21	0.0272106	31.3500
GMBM1802900-56	2900	3000	1500	166.8	18.8	20.60	500.4	56.5	61.8	8.098	0.915	55.5	0.11	2.04	0.0461409	53.1600
GMBM1804400-56	4400	3000	1500	256.3	29.0	31.75	768.9	86.9	95.3	8.072	0.912	55.6	0.06	1.14	0.0739851	85.2400
GMBM1801200-79	1200	2000	1000	104.3	11.8	8.400	312.9	35.4	25.2	12.412	1.403	78.5	0.57	8.24	0.0272106	31.3500
GMBM1802000-81	2000	2000	1000	172.5	19.5	14.40	517.5	58.5	43.2	11.978	1.354	81.0	0.24	4.53	0.0461409	53.1600
GMBM1803000-85	3000	2000	1000	258.6	29.2	20.25	775.8	87.7	87.6	12.768	1.443	85.0	0.13	2.87	0.0739851	85.2400
GMBM1804400-84	4400	2000	1000	378.8	42.8	31.24	1136.4	128.4	93.72	12.125	1.370	84.1	0.09	1.88	0.1014016	123.7400

KT = Torque/Amp KV = Volts/1000 RPM RA = Phase to Phase Resistance LA = Phase to Phase Inductance

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