

# DC BRUSH SERVO MOTOR SELECTION TABLE

**DC Brush Servo Motor Selection Table**

Model Number	Power @ Max Speed		Cont. Stall Rating			Peak Stall Torque		KT		RA	LA	RPM	KV	Armature Inertia	
	HP	KW	Lb-in	Nm	Amps	Lb-in	Nm	Lb-in/A	Nm/A	Ohms	mH	Max	V/kRPM	Lb-in-sec <sup>2</sup>	Kg-m <sup>2</sup>
GM2320-7	.12	0.090	1.9	0.21	3.0	9.5	1.07	0.63	0.07	1.6	3.30	4000	7.4	0.00023	0.000026
GM2320-16	.12	0.090	1.9	0.21	1.4	9.5	1.07	1.34	0.15	11.7	11.00	4000	15.8	0.00023	0.000026
GM2340-8	.25	0.186	3.1	0.35	5.0	15.5	1.75	0.63	0.07	0.9	2.50	5000	7.5	0.00040	0.000045
GM2340-11	.20	0.149	3.1	0.35	3.3	15.5	1.75	0.94	0.11	1.0	2.70	4000	11	0.00040	0.000045
GM2340-15	.20	0.149	3.1	0.35	2.5	15.5	1.75	1.25	0.14	2.8	5.00	4000	14.8	0.00040	0.000045
GM3310-25	.24	0.179	4.4	0.50	2.1	22.0	2.49	2.1	0.24	6.5	9.00	3400	24.6	0.00192	0.000217
GM3320-22	.42	0.313	7.5	0.85	4.4	37.5	4.24	1.70	0.19	2.1	4.00	3500	22	0.00208	0.000235
GM3320-30	.38	0.283	7.5	0.85	3.0	37.5	4.24	2.50	0.28	3.2	9.00	3200	30	0.00208	0.000235
GM3340-22	.59	0.440	10.6	1.20	6.3	53.0	5.99	1.69	0.19	1.0	2.00	3500	22	0.00310	0.000350
GMR3340-27	.84	0.627	16	1.81	7.1	80.0	9.04	2.25	0.25	1.3	2.40	3300	27	0.00310	0.000350
GMR3340-30	.54	0.403	16	1.81	6.3	80.0	9.04	2.53	0.29	2.0	6.80	3200	30	0.00310	0.000350
GM4010-20	.83	0.619	13	1.47	7.7	65.0	7.34	1.70	0.19	0.8	3.00	4000	20	0.00700	0.000791
GM4010-30	.76	0.567	13	1.47	5.1	65.0	7.34	2.55	0.29	1.8	7.50	3700	30	0.00700	0.000791
GM4020-25	1.46	1.089	23	2.60	11.0	115.0	12.99	2.10	0.24	0.8	3.60	4000	25	0.00920	0.001039
GM4020-39	1.28	0.955	23	2.60	6.6	115.0	12.99	3.50	0.40	1.3	7.40	3500	39	0.00920	0.001039
GM4020-60	.80	0.597	23	2.60	4.6	115.0	12.99	5.06	0.57	2.3	9.60	2200	60	0.00920	0.001039
GM4040-20	1.98	1.477	31.3	3.54	18.4	156.5	17.68	1.70	0.19	0.6	2.20	4000	20	0.01630	0.001842
GM4040-41	1.74	1.298	31.3	3.54	9.1	156.5	17.68	3.44	0.39	0.8	5.60	3500	41	0.01630	0.001842
GM4040-60	1.09	0.813	31.3	3.54	6.2	156.5	17.68	5.06	0.57	1.5	6.80	2200	60	0.01630	0.001842
GM4050-38	2.29	1.708	41.3	4.67	12.9	206.5	23.33	3.21	0.36	0.6	4.40	3500	38	0.01980	0.002237
GM4050-60	1.44	1.074	41.3	4.67	8.2	206.5	23.33	5.06	0.57	0.9	6.30	2200	60	0.01980	0.002237
GM4060-41	2.83	2.111	51.2	5.78	14.9	256.0	28.92	3.44	0.39	0.7	4.60	3500	41	0.02800	0.003164
GMR4910-26	1.21	0.903	19	2.15	8.6	95.0	10.73	2.22	0.25	0.8	2.30	4000	26	0.00600	0.000678
GMR4910-37	1.12	0.835	19	2.15	5.9	95.0	10.73	3.20	0.36	1.4	4.29	3700	37	0.00600	0.000678
GMR4920-38	2.06	1.537	35	3.95	10.8	175.0	19.77	3.23	0.36	0.5	1.49	3700	38	0.01090	0.001232
GMR4920-68	1.17	0.873	35	3.95	6.0	175.0	19.77	5.80	0.66	1.9	5.26	2100	68	0.01090	0.001232
GMR4940-38	3.02	2.253	50	5.65	15.2	250.0	28.25	3.28	0.37	0.3	1.00	3800	38	0.01830	0.002068
GMR4940-78	1.34	1.000	50	5.65	6.6	250.0	28.25	6.60	0.75	2.2	10.80	1700	78	0.01830	0.002068
GMR4950-35	4.13	3.081	65	7.34	21.4	325.0	36.72	3.04	0.34	0.2	0.65	4000	35	0.02330	0.002633
GMR4950-57	2.58	1.924	65	7.34	13.4	325.0	36.72	4.87	0.55	0.6	1.64	2500	57	0.02330	0.002633
GM6060-39	3.57	2.663	75	8.47	22.8	375.0	42.37	3.29	0.37	0.3	0.95	3000	39	0.05300	0.005988
GM6060-50	2.98	2.223	75	8.47	17.8	375.0	42.37	4.22	0.48	0.8	1.00	2500	50	0.05300	0.005988
GM6060-70	2.14	1.596	75	8.47	12.7	375.0	42.37	5.91	0.67	1.2	0.95	1800	70	0.05300	0.005988
GM6060-96	1.79	1.335	75	8.47	9.3	375.0	42.37	8.11	0.92	1.4	0.95	1500	96	0.05300	0.005988
GM6090-50	4.46	3.327	113	12.77	26.7	565.0	63.84	4.22	0.48	0.4	1.00	2500	50	0.08010	0.009050

KT = Torque/Amp    KV = Volts/1000 RPM    RA = Ohms    LA = Inductance