



Industrial/Aerospace/Military Grade Brush DC Torque Motors

- Frameless direct drive high torque DC permanent magnet motors meet MIL specifications.
- Both Alnico and Rare Earth Permanent Magnet types are available.
- High Torque-to-Power Ratio
- Fast Response
- High Resolution
- Low Speed and High Accuracy
- High Linearity
- The following table is a partial listing of available designs.
- Minimum lots by contract only

Item	Tp (oz-in)	Pp (W)	Km (oz-in/W)	WNL (rad/sec)	TPR (C/Watt)	Poles	Jm (oz-in-sec ²)	Weight (oz)	Vp	Ip	Kt (oz-in/amp)	Ke (volts/rad/sec)	Rm (ohms)	OD (inch)	ID (inch)	Length (inch)
NT-0786-A	2.80	46.0	0.410	2300	45.0	4	0.000045	1.4	11.8	3.930	0.712	0.0050	3.0	1.1250	0.1250	0.375
QT-0717	3.84	53.0	0.529	1940	45.0	4	0.000045	1.4	19.9	2.650	1.450	0.0100	7.5	1.1250	0.1875	0.375
T-0709	6.60	60.0	0.850	1300	34.0	4	0.000110	1.6	27.6	2.120	3.120	0.0220	13.0	1.1250	0.1875	0.562
QT-0707	7.70	50.0	1.090	925	33.0	4	0.000110	1.6	33.3	1.500	5.130	0.0360	22.2	1.1250	0.1875	0.562
NT-0796	10.60	73.0	1.240	990	25.0	4	0.000164	2.3	21.8	3.360	3.150	0.0220	6.5	1.1250	0.1875	0.750
QT-0706	12.30	63.0	1.550	725	25.0	4	0.000160	2.5	42.0	1.500	8.200	0.0580	28.0	1.1250	0.1875	0.750
QT-1106	11.00	49.0	1.570	636	19.0	8	0.000320	1.5	19.8	2.500	4.400	0.0311	7.9	1.3750	0.5000	0.385
QT-1204	11.00	57.0	1.460	732	25.0	6	0.000420	1.7	18.3	3.100	3.560	0.0250	5.9	1.5000	0.6250	0.385
T-1218	15.00	63.0	1.900	580	19.0	6	0.000600	2.3	50.0	1.250	12.000	0.0850	40.0	1.5000	0.6250	0.510
T-1259	15.00	40.0	2.400	374	19.0	6	0.000570	2.4	20.1	1.970	7.600	0.0537	10.2	1.5000	0.4550	0.510
QT-1207	20.00	81.8	2.210	580	19.0	6	0.000600	2.3	57.3	1.430	14.000	0.0900	40.0	1.5000	0.6250	0.510
T-1292	20.00	64.0	2.510	450	17.0	6	0.000900	2.8	20.3	3.130	6.400	0.0452	6.5	1.7500	0.6250	0.525
T-1242	25.00	55.0	3.400	307	12.0	6	0.001500	5.5	22.8	2.400	10.500	0.0740	9.5	1.5000	0.6250	0.960
QT-1217	50.00	165.0	3.900	467	12.0	6	0.001500	5.5	33.0	5.000	10.000	0.0706	6.6	1.5000	0.6250	0.960
T-1352	20.00	60.0	2.580	400	15.6	6	0.000880	4.3	26.0	2.300	8.700	0.0610	11.3	1.9375	0.6250	0.510
NT-1319	24.00	64.0	3.000	375	15.6	6	0.000880	4.4	27.6	2.300	10.500	0.0740	12.0	1.9375	0.6250	0.510
NT-1372	30.00	52.0	4.150	245	15.6	8	0.000900	4.4	17.4	3.000	10.000	0.0706	5.8	1.9375	0.6250	0.540
NT-1383	32.00	83.0	3.500	368	14.7	6	0.001100	6.0	32.0	2.600	12.300	0.0870	12.3	1.9375	0.6250	0.665
T-1342	40.00	98.0	4.050	340	13.4	6	0.001600	7.6	12.8	7.600	5.240	0.0370	1.7	1.9375	0.6250	0.838
NT-1308	90.00	255.0	5.650	407	9.0	6	0.003500	16.1	22.0	11.600	7.800	0.0550	1.9	1.9375	0.6250	1.860
T-1410	21.00	49.0	3.000	360	15.0	6	0.001500	5.0	28.0	1.750	12.000	0.0850	16.0	1.9375	0.6250	0.507
QT-1401	55.00	217.0	3.740	557	15.0	8	0.001300	4.4	33.4	6.110	9.000	0.0636	5.8	1.9375	0.6250	0.540
QT-1404	65.00	98.0	6.550	214	13.0	8	0.002550	8.4	13.6	7.200	9.000	0.0640	1.9	1.9375	0.6250	0.840
T-1421	77.40	112.0	7.310	205	10.0	6	0.002300	15.0	24.8	4.500	17.200	0.1210	5.5	1.9375	0.6250	1.200
QT-1406	157.00	347.0	8.420	313	10.0	8	0.003730	12.0	35.4	9.800	16.000	0.1130	3.6	1.9375	0.6250	1.110
T-1915	24.00	36.0	4.000	209	15.0	10	0.004000	5.0	39.6	0.900	26.800	0.1890	44.0	2.4675	1.2500	0.470
QT-1906	50.00	115.0	4.660	326	14.0	8	0.003400	5.0	23.0	5.000	10.000	0.0706	4.6	2.3749	1.2500	0.500
T-1911	60.00	60.00	7.750	143	10.0	10	0.008800	9.5	60.0	1.000	60.000	0.4240	60.0	2.3425	1.2500	0.854
QT-1903	90.00	107.0	8.700	167	10.0	10	0.008800	9.5	30.3	3.520	25.600	0.1810	8.6	2.3750	1.2500	0.854
T-2003	9.50	41.0	48.000	610	20.0	10	0.001600	2.5	32.9	1.250	7.600	0.0540	26.3	2.4600	1.5000	0.308
T-2157	35.00	41.0	5.450	160	9.0	8	0.006200	8.8	6.4	6.4	5.500	0.0400	1.0	2.8125	1.0000	0.622
QT-2104	48.00	39.0	7.700	114	9.0	8	0.006000	9.2	17.6	2.200	21.800	0.1540	8.0	2.8125	1.0000	0.618
T-2170	60.00	33.8	10.500	79	7.8	8	0.011000	13.8	10.6	3.200	18.900	0.1300	3.3	2.8125	1.0000	1.0000
QT-2105	75.00	35.0	12.800	65	7.8	8	0.011000	13.5	21.2	1.630	46.100	0.3260	13.0	2.8125	1.0000	1.0000
T-2171	120.00	50.0	17.000	57	5.4	8	0.019000	25.0	7.5	6.800	17.700	0.1250	1.1	2.8125	1.0000	1.500
NT-2146	240.00	75.0	28.800	42.1	9.0	8	0.026800	576.0	14.2	5.250	46.400	0.3270	2.7	2.8125	1.0000	2.510
QT-2202	52.00	40.0	8.280	107	9.0	8	0.008500	11.0	24.6	1.600	32.500	0.2300	15.4	2.8125	1.0000	0.620
T-2215	108.00	41.0	16.900	54	6.0	8	0.017000	20.0	18.9	2.200	49.000	0.3500	8.6	2.8125	1.0000	1.125
T-2314	54.00	57.5	7.100	150	8.0	10	0.009000	11.0	40.9	1.410	38.400	0.2710	29.0	2.8750	1.0000	0.579
QT-2406	30.00	53.5	4.100	250	10.0	10	0.005400	3.9	34.1	1.570	19.100	0.1350	21.7	2.7800	1.8000	0.440
T-2413	30.00	50.5	4.220	238	10.0	10	0.006000	4.0	32.2	1.570	19.100	0.1350	20.5	2.7800	1.8000	0.440
T-2406	480.00	285.0	28.400	84	5.0	10	0.031000	31.0	28.5	10.000	48.000	0.3390	2.9	3.1800	1.4370	1.550
QT-2404	576.00	260.0	36.480	64	5.0	12	0.038400	460.0	26.0	10.000	57.600	0.4070	2.6	3.1800	1.0000	1.532
T-2509	30.00	48.0	4.330	220	9.0	10	0.006000	4.5	30.8	1.540	19.500	0.1380	20.0	3.0000	1.7500	0.370
QT-2502	48.00	27.0	9.250	79	7.0	12	0.010500	9.0	19.0	1.400	34.100	0.2410	13.6	3.0000	1.7500	0.614
QT-2504	60.00	55.0	8.100	128	7.0	10	0.011000	8.0	22.4	2.430	24.700	0.1740	9.2	3.0000	1.7500	0.525
T-2516	60.00	55.0	8.100	127	7.0	10	0.011000	8.0	35.6	1.540	39.000	0.2800	23.1	3.0000	1.7500	0.525
QT-2603	960.00	313.0	53.760	46	4.3	10	0.076800	672.0	50.0	6.250	153.600	1.0800	8.0	3.1800	1.1370	2.354
T-2719	97.00	37.5	15.800	54	5.0	12	0.022000	15.0	31.2	1.200	81.000	0.5700	26.0	3.3748	1.6875	0.690
T-2804	30.00	67.0	3.660	320	7.9	12	0.008600	5.1	45.3	1.480	20.200	0.1400	30.6	3.3750	2.2500	0.405
T-2809	85.00	103.0	8.400	170	3.1	12	0.020000	11.0	40.6	2.540	33.400	0.2360	16.0	3.3750	2.2500	0.709
T-2967	100.00	67.5	12.200	95	5.6	10	0.035000	17.5	21.4	3.150	31.700	0.2240	6.8	3.7300	1.6400	0.888
T-2955	163.20	77.0	18.620	67	5.0	10	0.441600	288.0	12.2	6.800	24.000	0.1700	1.8	3.7300	1.6400	1.094
T-2987	211.20	113.0	19.970	75	2.5	10	0.061440	384.0	14.6	7.700	27.460	0.1950	1.9	3.7300	1.6400	1.338
T-2950	230.40	79.0	25.920	48	4.3	10	0.055680	412.8	24.0	3.250	71.040	0.5000	7.5	3.7300	1.6400	1.338
T-2959	326.40	110.0	30.720	47	4.0	10	0.063360	480.0	15.6	7.100	46.080	0.3250	2.2	3.7290	1.6400	1.588
T-3001	26.50	9.6	8.550	51	6.0	14	0.015000	8.0	14.1	0.680	39.000	0.2750	20.7	3.6200	2.1800	0.415
QT-3104	149.50	97.2	15.200	92	5.0	12	0.034000	14.0	26.3	3.700	40.400	0.2850	7.1	3.6250	2.5000	0.800
QT-3102	480.00	263.0	29.570	77	4.0	10	0.078720	384.0	47.3	5.560	86.400	0.6100	8.5	3.7300	1.6400	1.238
QT-3103	635.50	190.0	46.080	39	3.8	10	0.109400	595.2	34.8	3.470	183.000	1.2900	15.8	3.7300	1.6400	1.697
T-3203	192.00	87.0	20.540	63	3.4	10	0.067200	307.2	12.1	7.100	26.880	0.1900	1.7	4.0900	2.0000	1.094
T-3208	288.00	113.0	26.880	56	2.5	10	0.076800	460.8	15.0	7.500	38.400	0.2700	2.0	4.0900	2.0000	1.344