



All performance data based on sine wave tests

**BlueMAX 2000:1 Constant Torque Motors (all data at 460 volt)**

HP	FL RPM	MIN. RPM	ENCL	NEMA FRAME	FL AMPS 460V	NL AMPS 460V	FL TORQUE (LB-FT)	BD TORQUE (LB-FT)	MAX CHP RPM <sup>(1)</sup>	FL EFFIC- IENCY	FL POWER FACTOR	OHMS/PHASE - Equivalent Wye Circuit (at rated operating temp. in a 40 C ambient)					ROTOR INERTIA (LB-FT <sup>2</sup> )
												R1	R2	X1	X2	XM	
1	1756	0	TENV	143TC	1.5	0.85	3	14	3520	85.5	72	8.094	5.481	11.644	10.366	301.04	0.100
1.5	1750	0	TENV	145TC	2.3	1.5	4.5	24	3500	82.5	72	6.294	4.498	7.277	7.088	185.409	0.100
2	1750	0	TENV	145TC	3	1.7	6	28.5	3525	85.5	78	3.834	2.897	5.949	5.637	154.78	0.130
3	1760	0	TENV	182TC	4	2	9	35	3525	90.2	80	2.353	1.616	5.084	7.9	130.41	0.400
5	1750	0	TENV	184TC	6.7	3.5	15	61	3490	88.5	79	1.69	1.168	3.255	4.791	77.679	0.450
7.5	1765	0 <sup>(2)</sup>	TEFC	213TC	9.7	4.2	22.5	89	3525	88.5	81	0.786	0.669	2.51	3.893	63.88	0.800
	1775	0	TENV	213TC	10.5	5.8	22.2	94	3540	90.2	75	0.575	0.461	1.943	2.986	43.848	1.100
10	1765	0 <sup>(2)</sup>	TEFC	215TC	12.7	5.5	29.8	75	2660	90.2	81	0.536	0.446	2.031	3.081	48.422	1.100
	1775	0	TENV	215TC	13	6.5	29.5	119	3460	91	78	0.395	0.361	1.477	2.425	36.92	1.400
15	1765	0 <sup>(2)</sup>	TEFC	254TC	18.5	7	44.5	108	2635	90.2	83.5	0.429	0.306	1.446	1.875	35.154	2.200
	1772	0	TENV	254TC	20.2	11.8	44.5	180	3565	93	74.5	0.299	0.236	1.04	1.414	22.548	2.500
	1170	0	TEBC	284TC	20	9	67	178	1765	88.5	79	0.496	0.405	1.656	1.516	28.38	2.600
20	1775	0 <sup>(2)</sup>	TEFC	256TC	26	14	59	195	2670	91	78	0.226	0.163	0.811	0.436	19.028	2.600
	1768	0	TENV	256TC	25	13.5	59.5	290	2665	93.6	80	0.234	0.213	0.746	0.689	18.204	3.100
	1160	0	TEBC	286TC	26.2	11	90	215	1755	87.5	82	0.382	0.339	1.342	1.274	24.85	3.000
25	1765	0 <sup>(2)</sup>	TEFC	284T	31.5	14	74.5	195	2650	91.7	82	0.227	0.178	0.807	1.1	18.6	2.500
	1765	0	TEBC	284TC	31.5	14	74.5	195	2650	91.7	82	0.227	0.178	0.807	1.098	18.58	2.600
	1170	0	TEBC	324TC	33.5	16.5	112	280	1760	91.7	76	0.855	0.545	2.13	1.48	51.404	5.000
30	1776	0 <sup>(2)</sup>	TEFC	286T	38.5	19	88.5	285	2660	93	78.5	0.113	0.101	0.589	0.766	13.62	4.800
	1765	0	TEBC	286TC	37	15.5	89.5	240	2655	91	83	0.193	0.152	0.679	0.984	17.123	3.000
	1170	0	TEBC	326TC	41	21.5	135	345	1760	91.7	75	0.171	0.167	0.853	0.759	11.07	5.500
40	1770	0 <sup>(2)</sup>	TEFC	324T	50	20	118	320	2642	91.7	81.5	0.082	0.077	0.435	0.592	10.28	5.000
	1770	0	TEBC	324TC	50	20	118	320	2642	91.7	81.5	0.082	0.077	0.435	0.592	10.28	5.000
	1185	0	TEBC	364TC	52	26	178	490	1780	91.7	79	0.135	0.071	0.457	0.636	10.082	15.200
50	1780	0 <sup>(2)</sup>	TEFC	326T	60.5	26.5	148	400	2675	92.4	81	0.063	0.046	0.424	0.596	10	10.000
	1765	0	TEBC	326TC	60	25	149	525	3525	93	83.5	0.088	0.092	0.437	0.358	9.662	5.500
	1180	0	TEBC	365TC	65	28.5	222	525	1775	93	78	0.09	0.069	0.438	0.586	8.686	11.500
60	1782	0 <sup>(2)</sup>	TEFC	364T	73.5	28	177	525	2665	91.7	83	0.063	0.042	0.338	0.455	8.85	14.500
	1782	0	TEBC	364TC	74	28	177	525	2665	91.7	83	0.063	0.042	0.338	0.455	8.85	14.500
	1180	0	TEBC	404TC	71	28.5	267	850	1770	92.4	86	0.085	0.068	0.363	0.3	8.892	32.000
75	1780	0 <sup>(2)</sup>	TEFC	365T	92	40	221	740	2665	94.1	82	0.047	0.031	0.267	0.313	6.275	16.500
	1780	0	TEBC	365TC	90	33	222	645	2685	93	84	0.054	0.038	0.299	0.42	8.203	16.000
	1185	0	TEBC	405TC	90	31	332	715	1775	94.1	83	0.058	0.036	0.321	0.452	8.332	36.000
100	1785	0 <sup>(2)</sup>	TEFC	405T	115	38	295	900	2675	94.5	86.5	0.034	0.021	0.236	0.219	6.82	27.500
	1785	0	TEBC	405TC	115	38	295	900	2675	94.5	86.5	0.034	0.021	0.236	0.219	6.816	27.500
	1190	0	TEBC	444TC	125	56	442	1250	1780	94.1	79	0.033	0.021	0.213	0.26	4.544	60.500
125	1788	0 <sup>(2)</sup>	TEFC	444T	143	47	367	1175	2682	94.5	87	0.024	0.01	0.202	0.128	5.4	43.500
	1785	0	TEBC	444T	138	40	367	975	2675	95.4	88.5	0.031	0.015	0.25	0.17	6.36	40.000
150	1790	0 <sup>(2)</sup>	TEFC	445T	170	57	440	1475	2675	94.5	87.5	0.016	0.009	0.154	0.112	4.42	50.500
	1790	0	TEBC	445T	170	57	440	1475	2675	94.5	87.5	0.016	0.01	0.154	0.112	4.42	50.500
200	1790	0 <sup>(2)</sup>	TEFC	445T	230	81	588	2260	2675	95	86	0.013	0.007	0.102	0.079	3.02	60.000
	1790	0	TEBC	445T	230	81	588	2260	2675	95	86	0.013	0.007	0.102	0.079	3.025	60.000
250	1788	0 <sup>(2)</sup>	TEFC	449T	280	85	735	2425	2670	95	89	0.009	0.006	0.093	0.077	2.998	73.500
	1790	0	TEBC	449T	295	103	734	2065	2685	95	84	0.008	0.03	0.083	0.108	2.565	76.000
300	1788	0 <sup>(2)</sup>	TEFC	449T	330	95	880	2925	2675	95.4	89.5	0.007	0.006	0.077	0.063	2.741	87.500
	1785	0	TEBC	449T	327	85	883	2475	2675	95.4	90	0.009	0.007	0.092	0.075	3.087	80.500
350	1784	0	TEBC	449T	385	95	1030	2925	2680	95.4	90	0.007	0.005	0.076	0.655	2.636	87.500

- (1) Maximum Constant Horsepower RPM is for direct coupled loads
- (2) TEFC motors suitable for 2000:1 constant torque with Vector Drives or 20:1 CT with Volts/Hertz drives (all other data identical)