

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 1	FL EFFICIENCY	FL POWER FACTOR	OHMS/PHASE - Equivalent Wye Circuit (at rated operating temp. in a 40 °C ambient)					ROTOR INERTIA (lb-ft ²)
												R1	R2	X1	X2	XM	
5	1765	0	TENV	184TC	7	4.2	14.8	70	3555	89.5	74.5	1.242	0.947	2.534	4.236	64.128	0.55
	1165	0	TENV	215TC	7.7	4.8	22.5	87	2320	84	71	1.13	1.25	3.709	2.573	51.972	0.9
7.5	1765	0	TENV	213TC	10.5	5.5	22.3	95.5	3525	90.2	76	0.699	0.567	1.765	2.26	38.178	0.85
	1170	0	TENV	254TC	11	6	34	118	2325	87.5	73	0.51	0.68	2.846	3.247	42.714	1.2
10	1774	0	TENV	215TC	13.5	7.4	29.5	125	3540	90.2	76	0.369	0.334	1.423	2.281	34.932	1.3
	1160	0	TENV	256TC	14	7	45.5	135	2320	89.5	75.5	0.534	0.693	2.258	2.323	30.53	1.5
15	1765	0	TENV	254TC	20	11	45	170	3550	92.4	76	0.134	0.316	1.047	1.569	22.151	1.6
20	1768	0	TENV	256TC	25	13.5	59.5	290	3560	93.6	80	0.234	0.213	0.746	0.689	18.204	3.1
25	1770	0	TENV	284TC	31	14	74.2	330	3530	93.6	75	0.143	0.16	0.724	0.678	13.965	4.4
30	1772	0	TENV	286TC	40	23.5	89	375	3560	94.5	74	0.113	0.123	0.543	0.557	11.2	5.5

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

Table 3: BlackMAX® Explosion Proof 1000:1 Constant Torque Motor (all data at 460 Volts)

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 1	FL EFFICIENCY	FL POWER FACTOR	OHMS/PHASE - Equivalent Wye Circuit (at rated operating temp. in a 40 °C ambient)					ROTOR INERTIA (lb-ft ²)
												R1	R2	X1	X2	XM	
1/4	1725	0	EPNV	56C	0.55	0.4	0.75	3.7	1725	71	61.5	34.01	21.99	32.3	19.3	533.95	0.038
1/3	1725	0	EPNV	56C	0.6	0.4	1	3.7	1725	74.5	71	34.57	24.08	36.55	24.25	675.96	0.038
1/2	1735	0	EPNV	56C	0.8	0.52	1.5	5.8	1735	80	72	22.31	17.02	24.12	18.62	532.98	0.056
3/4	1755	0	EPNV	56C	1.2	0.75	2.25	10.2	1755	82.5	73.5	11	7.41	13.27	12.21	339.82	0.09
1	1750	0	EPNV	56C	1.5	1	3	15	1750	84	75	8.38	5.62	10.71	9.91	278.04	0.11

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

Table 4: BlueMAX® 2000:1 Constant Torque Motors (all data at 460 Volts)

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 1	FL EFFICIENCY	FL POWER FACTOR	OHMS/PHASE - Equivalent Wye Circuit (at rated operating temp. in a 40 °C ambient)					ROTOR INERTIA (lb-ft ²)
												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	0.1
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	0.1
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	0.13
3	1760	0	TENV	182TC	4	2	9	35	3525	90.2	80	2.353	1.616	5.084	7.9	130.41	0.4
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	0.45
7.5	1765	0(2)	TEFC	213TC	9.7	4.2	22.5	89	3525	88.5	81	0.786	0.669	2.51	3.893	63.88	0.8
	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	1.1
10	1765	0(2)	TEFC	215TC	12.7	5.5	29.8	75	2660	90.2	81	0.536	0.446	2.031	3.081	48.422	1.1
	1775	0	TENV	215TC	13	6.5	29.5	119	3460	91	78	0.395	0.361	1.477	2.425	36.92	1.4
	1765	0(2)	TEFC	254TC	18.5	7	44.5	108	2635	90.2	83.5	0.429	0.306	1.446	1.875	35.154	2.2

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 1	FL EFFIC- IENCY	FL POWER FACTOR	OHMS/PHASE - Equivalent Wye Circuit (at rated operating temp. in a 40 °C ambient)					ROTOR INERTIA (lb-ft ²)
												R1	R2	X1	X2	XM	
15	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	2.5
	1170	0	TEBC	284TC	20	9	67	178	1765	88.5	79	0.496	0.405	1.656	1.516	28.38	2.6
	1775	0 (2)	TEFC	256TC	26	14	59	195	2670	91	78	0.226	0.163	0.811	0.436	19.028	2.6
20	1768	0	TENV	256TC	25	13.5	59.5	290	2665	93.6	80	0.234	0.213	0.746	0.689	18.204	3.1
	1160	0	TEBC	286TC	26.2	11	90	215	1755	87.5	82	0.382	0.339	1.342	1.274	24.85	3
	1765	0 (2)	TEFC	284T	31.5	14	74.5	195	2650	91.7	82	0.227	0.178	0.807	1.1	18.6	2.5
25	1765	0	TEBC	284TC	31.5	14	74.5	195	2650	91.7	82	0.227	0.178	0.807	1.098	18.58	2.6
	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
	1776	0 (2)	TEFC	286T	38.5	19	88.5	285	2660	93	78.5	0.113	0.101	0.589	0.766	13.62	4.8
30	1765	0	TEBC	286TC	37	15.5	89.5	240	2655	91	83	0.193	0.152	0.679	0.984	17.123	3
	1170	0	TEBC	326TC	41	21.5	135	345	1760	91.7	75	0.171	0.167	0.853	0.759	11.07	5.5
	1770	0 (2)	TEFC	324T	50	20	118	320	2642	91.7	81.5	0.082	0.077	0.435	0.592	10.28	5
40	1770	0	TEBC	324TC	50	20	118	320	2642	91.7	81.5	0.082	0.077	0.435	0.592	10.28	5
	1185	0	TEBC	364TC	52	26	178	490	1780	91.7	79	0.135	0.071	0.457	0.636	10.082	15.2
	1780	0 (2)	TEFC	326T	60.5	26.5	148	400	2675	92.4	81	0.063	0.046	0.424	0.596	10	10
50	1765	0	TEBC	326TC	60	25	149	525	3525	93	83.5	0.088	0.092	0.437	0.358	9.662	5.5
	1180	0	TEBC	365TC	65	28.5	222	525	1775	93	78	0.09	0.069	0.438	0.586	8.686	11.5
	1782	0 (2)	TEFC	364T	73.5	28	177	525	2665	91.7	83	0.063	0.042	0.338	0.455	8.85	14.5
60	1782	0	TEBC	364TC	74	28	177	525	2665	91.7	83	0.063	0.042	0.338	0.455	8.85	14.5
	1180	0	TEBC	404TC	71	28.5	267	850	1770	92.4	86	0.085	0.068	0.363	0.3	8.892	32
	1780	0 (2)	TEFC	365T	92	40	221	740	2665	94.1	82	0.047	0.031	0.267	0.313	6.275	16.5
75	1780	0	TEBC	365TC	90	33	222	645	2685	93	84	0.054	0.038	0.299	0.42	8.203	16
	1185	0	TEBC	405TC	90	31	332	715	1775	94.1	83	0.058	0.036	0.321	0.452	8.332	36
	1785	0 (2)	TEFC	405T	115	38	295	900	2675	94.5	86.5	0.034	0.021	0.236	0.219	6.82	27.5
100	1785	0	TEBC	405TC	115	38	295	900	2675	94.5	86.5	0.034	0.021	0.236	0.219	6.816	27.5
	1190	0	TEBC	444TC	125	56	442	1250	1780	94.1	79	0.033	0.021	0.213	0.26	4.544	60.5
125	1788	0 (2)	TEFC	444T	143	47	367	1175	2682	94.5	87	0.024	0.01	0.202	0.128	5.4	43.5
	1785	0	TEBC	444T	138	40	367	975	2675	95.4	88.5	0.031	0.015	0.25	0.17	6.36	40
150	1790	0 (2)	TEFC	445T	170	57	440	1475	2675	94.5	87.5	0.016	0.009	0.154	0.112	4.42	50.5
	1790	0	TEBC	445T	170	57	440	1475	2675	94.5	87.5	0.016	0.01	0.154	0.112	4.42	50.5
200	1790	0 (2)	TEFC	445T	230	81	588	2260	2675	95	86	0.013	0.007	0.102	0.079	3.02	60
	1790	0	TEBC	445T	230	81	588	2260	2675	95	86	0.013	0.007	0.102	0.079	3.025	60
250	1788	0 (2)	TEFC	449T	280	85	735	2425	2670	95	89	0.009	0.006	0.093	0.077	2.998	73.5
	1790	0	TEBC	449T	295	103	734	2065	2685	95	84	0.008	0.03	0.083	0.108	2.565	76
300	1788	0 (2)	TEFC	449T	330	95	880	2925	2675	95.4	89.5	0.007	0.006	0.077	0.063	2.741	87.5
	1785	0	TEBC	449T	327	85	883	2475	2675	95.4	90	0.009	0.007	0.092	0.075	3.087	80.5
350	1784	0	TEBC	449T	385	95	1030	2925	2680	95.4	90	0.007	0.005	0.076	0.655	2.636	87.5

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