

# W21X Explosion Proof NEMA Premium Motors

## TEFC

### Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4, 6 and 8 pole, 60Hz
- Voltage: 230/460V, 575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 "Waterproof Machine"
- Die cast aluminum squirrel cage rotor
- Internal Oil/Lip Seal
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 364/5T and all 2 pole motors
- 4140 for 404/5T shaft upwards in 4, 6 and 8 pole motors
- Class "F" insulation for all frames. Temperature rise limited to Class "B" (80K)
  - 575V rated motors have Spike Resistant WISE wire.
    - Protects against IGBT voltage spikes up to 2400V.
    - Exceeds NEMA MG1 Part 31.4.4.2
- Insulation System:
  - Dip and Bake Insulation system with class "H" resin up to frame 324/6T
  - CFRI Continuous Flow Resin Impregnation Insulation system with class "H" resin for frame 364/5T and up.
- NEMA design "B"
- Service Factor: 1.15
- Continuous duty (S1)
- Thermostats (N/C 1 per phase/3 in series)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000m)
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 202P
- Color: RAL 5009 - Blue
- Brass drain/breather plug from frame 254T and up
- Regreasable bearings, positive pressure lubrication system (frames 254T and up)
- 2RS bearings from frame 143T to 215T



**NEMA Premium™**



TEMP CODE T3C

CSA / UL: Class I, Div 1 - Groups C and D

CSA: Class II, Div 1 - Groups F and G

CSA: Class I, Zone 1, IIB

TEMP CODE T4 with a maximum SF 1.15, not as Inverter Duty, maximum ambient temperature of 40°C.

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143T - 504/5T	All	20:1	1000:1	Any
143T - 504/5T	All	1000:1*		WEG
586/7T	All	2:1		Any

\* Can only be achieved by a WEG VFD running in Sensorless Vector  
See page 7.6 for details

### Optional Features

- Metric Frames available (Division I - non-ATEX)
- Special voltages
- Special shafts
- Space heaters
- Labyrinth taconite seal available for all ratings
- Thermistors
- Drip cover (canopy) for shaft down applications
- NEMA C & D flanges and Metric flanges for all ratings
- Roller bearings
- Insulated bearings





# Explosion Proof NEMA Premium Motors TEFC - Purchasing Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM						460V	575V				
1	3600	143/5T	\$813	\$1,054	\$1,065	HX000X02NPW21X	1.41	1.13	81.5	61.7	13.752	0.875
	1800	143/5T	\$815	\$1,056	\$1,067	HX000X04NPW21X	1.43	1.14	85.5	61.7	13.752	0.875
	1200	143/5T	\$964	\$1,206	\$1,218	HX000X06NPW21X	1.54	1.23	82.5	52.9	13.752	0.875
1.5	900	182/4T	\$1,522	\$1,851	\$1,870	HX000X08NPW21X	2.30	1.84	78.5	112	15.862	1.125
	3600	143/5T	\$898	\$1,140	\$1,151	HX001X02NPW21X	2.05	1.64	84.0	61.7	13.752	0.875
	1800	143/5T	\$865	\$1,107	\$1,118	HX001X04NPW21X	2.05	1.64	86.5	70.5	13.752	0.875
2	1200	182/4T	\$1,190	\$1,520	\$1,535	HX001X06NPW21X	2.33	1.86	87.5	117.5	15.862	1.125
	900	182/4T	\$1,674	\$2,003	\$2,023	HX001X08NPW21X	2.70	2.16	82.5	128	15.862	1.125
	3600	143/5T	\$947	\$1,188	\$1,200	HX002X02NPW21X	2.69	2.15	85.5	66.1	13.752	0.875
2.5	1800	143/5T	\$887	\$1,129	\$1,140	HX002X04NPW21X	2.73	2.18	86.5	72.8	13.752	0.875
	1200	182/4T	\$1,254	\$1,583	\$1,599	HX002X06NPW21X	3.13	2.50	88.5	128.7	15.862	1.125
	900	213/5T	\$2,115	\$2,510	\$2,535	HX002X08NPW21X	3.45	2.76	84.0	165	19.450	1.375
3	3600	182/4T	\$1,078	\$1,408	\$1,422	HX003X02NPW21X	3.80	3.04	86.5	90.4	15.862	1.125
	1800	182/4T	\$1,067	\$1,397	\$1,411	HX003X04NPW21X	3.91	3.13	89.5	115	15.862	1.125
	1200	213/5T	\$1,565	\$1,972	\$1,992	HX003X06NPW21X	4.41	3.53	89.5	165	19.450	1.375
4	900	213/5T	\$2,269	\$2,664	\$2,691	HX003X08NPW21X	4.44	3.55	87.0	201	19.450	1.375
	3600	182/4T	\$1,232	\$1,562	\$1,577	HX005X02NPW21X	6.10	4.88	88.5	106	15.862	1.125
	1800	182/4T	\$1,171	\$1,500	\$1,515	HX005X04NPW21X	6.58	5.26	89.5	130	15.862	1.125
5	1200	213/5T	\$1,829	\$2,225	\$2,247	HX005X06NPW21X	6.83	5.46	89.5	218	19.450	1.375
	900	254T	\$2,640	\$3,211	\$3,243	HX005X08NPW21X	7.93	6.34	87.5	313	23.175	1.625
	3600	213/5T	\$1,588	\$1,983	\$2,003	HX007X02NPW21X	8.98	7.18	89.5	190	19.450	1.375
7.5	1800	213/5T	\$1,717	\$2,113	\$2,134	HX007X04NPW21X	9.41	7.53	91.7	152	19.450	1.375
	1200	254T	\$2,203	\$2,774	\$2,802	HX007X06NPW21X	9.73	7.78	91.0	309	23.175	1.625
	900	256T	\$3,213	\$3,784	\$3,822	HX007X08NPW21X	11.6	9.28	87.5	353	24.923	1.625
10	3600	213/5T	\$1,871	\$2,267	\$2,289	HX010X02NPW21X	12.0	9.60	90.2	201	19.450	1.375
	1800	L215T	\$1,990	\$2,385	\$2,409	HX010X04NPW21X	12.8	10.2	91.7	207	20.631	1.375
	1200	256T	\$2,706	\$3,277	\$3,310	HX010X06NPW21X	13.3	10.6	91.0	364	24.923	1.625
15	900	284T	\$4,269	\$4,906	\$4,955	HX010X08NPW21X	13.3	10.6	91.0	467	26.407	1.875
	3600	254T	\$2,245	\$2,816	\$2,844	HX015X02NPW21X	16.9	13.5	91.7	317	23.175	1.625
	1800	254T	\$2,341	\$2,912	\$2,941	HX015X04NPW21X	18.4	14.7	92.4	328	23.175	1.625
20	1200	284T	\$3,481	\$4,118	\$4,159	HX015X06NPW21X	17.5	14.0	91.7	463	26.407	1.875
	900	286T	\$5,060	\$5,697	\$5,754	HX015X08NPW21X	19.0	15.2	91.0	507	27.905	1.875
	3600	256T	\$2,805	\$3,394	\$3,428	HX020X02NPW21X	23.1	18.5	91.7	357	24.923	1.625
25	1800	256T	\$2,803	\$3,392	\$3,426	HX020X04NPW21X	25.0	20.0	93.0	364	24.923	1.625
	1200	286T	\$4,138	\$4,775	\$4,822	HX020X06NPW21X	24.3	19.4	91.7	500	27.905	1.875
	900	324T	\$6,171	\$6,924	\$6,993	HX020X08NPW21X	27.5	22.0	92.4	606	29.602	2.125
30	3600	284TS	\$3,625	\$4,282	\$4,324	HX025X02NPW21X	28.6	22.9	92.4	452	25.033	1.625
	1800	284T	\$3,553	\$4,190	\$4,232	HX025X04NPW21X	29.9	23.9	93.6	472	26.407	1.875
	1200	324T	\$4,889	\$5,642	\$5,698	HX025X06NPW21X	30.4	24.3	93.0	639	29.602	2.125
40	900	326T	\$6,980	\$7,733	\$7,810	HX025X08NPW21X	35.4	28.3	92.4	672	31.106	2.125
	3600	286TS	\$4,076	\$4,713	\$4,760	HX030X02NPW21X	33.8	27.0	93.0	529	26.531	1.625
	1800	286T	\$3,988	\$4,625	\$4,672	HX030X04NPW21X	36.0	28.8	93.6	511	27.905	1.875
50	1200	326T	\$5,911	\$6,664	\$6,730	HX030X06NPW21X	36.8	29.4	93.0	694	31.106	2.125
	900	364/5T	\$12,116	\$13,321	\$13,454	HX030X08NP	38.5	30.8	93.0	910	33.701	2.375
	3600	324TS	\$5,354	\$6,107	\$6,168	HX040X02NPW21X	45.8	36.6	93.6	639	28.102	1.875
60	1800	324T	\$5,175	\$5,928	\$5,987	HX040X04NPW21X	48.3	38.6	94.1	650	29.602	2.125
	1200	364/5T	\$9,129	\$10,333	\$10,436	HX040X06NP	47.1	37.7	94.1	1010	33.701	2.375
	900	364/5T	\$12,245	\$13,450	\$13,584	HX040X08NP	52.3	41.8	93.6	1058	33.701	2.375
75	3600	326TS	\$6,575	\$7,328	\$7,402	HX050X02NPW21X	55.5	44.4	94.1	728	29.606	1.875
	1800	326T	\$6,122	\$6,874	\$6,943	HX050X04NPW21X	60.6	48.5	94.5	705	31.106	2.125
	1200	364/5T	\$10,071	\$11,275	\$11,388	HX050X06NP	58.1	46.5	94.1	1036	33.701	2.375
100	900	404/5T	\$15,609	\$16,814	\$16,982	HX050X08NP	68.0	54.4	93.6	1257	38.074	2.875
	3600	364/5TS	\$9,636	\$10,841	\$10,949	HX060X02NP	68.3	54.6	94.1	1016	31.575	1.875
	1800	364/5T	\$9,772	\$10,976	\$11,086	HX060X04NP	68.3	54.6	95.0	1014	33.701	2.375
150	1200	404/5T	\$13,007	\$14,211	\$14,353	HX060X06NP	70.4	56.3	94.5	1213	38.074	2.875
	900	404/5T	\$15,926	\$17,130	\$17,301	HX060X08NP	75.9	60.7	93.0	1279	38.074	2.875
	3600	364/5TS	\$12,562	\$13,766	\$13,904	HX075X02NP	82.4	65.9	94.1	1025	31.575	1.875
200	1800	364/5T	\$11,415	\$12,620	\$12,746	HX075X04NP	83.3	66.6	95.4	937	33.701	2.375
	1200	404/5T	\$14,515	\$15,719	\$15,876	HX075X06NP	87.0	69.6	94.5	1257	38.074	2.875
	900	444/5T	\$23,376	\$25,312	\$25,565	HX075X08NP	92.3	73.8	93.6	1911	43.797	3.375
250	3600	404/5TS	\$16,360	\$17,565	\$17,740	HX100X02NP	110	88.1	95.0	1206	35.074	2.125
	1800	404/5T	\$14,517	\$15,721	\$15,878	HX100X04NP	113	90.4	95.4	1221	38.074	2.875
	1200	444/5T	\$19,079	\$21,015	\$21,225	HX100X06NP	121	96.7	95.0	1896	43.797	3.375
300	900	444/5T	\$24,824	\$26,760	\$27,027	HX100X08NP	125	100	94.1	2052	43.797	3.375

Flange: Replace 'H' with 'C' for C Flange  
 Replace 'H' with 'D' for D Flange  
 Voltage: Replace 'X' with '4' for 208-230/460V  
 Replace 'X' with '5' for 575V



# Explosion Proof NEMA Premium Motors

## TEFC - Purchasing Data

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dim. (in.)	Shaft Diameter "U" Dim. (in.)
HP	RPM						460V	575V				
125	3600	444/5TS	\$21,630	\$23,566	\$23,801	HX125X02NP	138	110	95.0	1940	40.047	2.375
	1800	444/5T	\$20,083	\$22,019	\$22,239	HX125X04NP	143	114	95.4	2026	43.797	3.375
	1200	444/5T	\$25,499	\$27,435	\$27,710	HX125X06NP	150	120	95.0	2293	43.797	3.375
	900	447T	\$32,221	\$34,157	\$34,499	HX125X08NP447T	154	123	94.5	2337	47.339	3.375
	900	504/5T	\$32,221	\$34,265	\$34,607	HX125X08NP	154	123	94.5	2337	49.445	3.625
150	3600	444/5TS	\$25,097	\$27,033	\$27,303	HX150X02NP	161	129	95.4	1984	40.047	2.375
	1800	444/5T	\$22,761	\$24,697	\$24,944	HX150X04NP	170	136	95.8	2094	43.797	3.375
	1200	447T	\$29,008	\$30,943	\$31,253	HX150X06NP447T	174	139	95.8	2540	47.339	3.375
	1200	504/5T	\$29,008	\$31,051	\$31,362	HX150X06NP	174	139	95.8	2540	49.445	3.625
	900	447T	\$37,478	\$39,414	\$39,808	HX150X08NP447T	179	143	94.5	2646	47.339	3.375
200	900	504/5T	\$37,478	\$39,521	\$39,917	HX150X08NP	179	143	94.5	2646	49.445	3.625
	3600	447TS	\$33,725	\$35,660	\$36,017	HX200X02NP447TS	221	177	95.8	2491	45.589	2.375
	3600	504/5TS	\$33,725	\$35,768	\$36,126	HX200X02NP	221	177	95.8	2491	46.875	2.875
	1800	447T	\$28,726	\$30,662	\$30,968	HX200X04NP447T	230	184	96.2	2425	47.339	3.375
	1800	504/5T	\$28,726	\$30,769	\$31,077	HX200X04NP	230	184	96.2	2425	49.445	3.625
	1200	447T	\$34,090	\$36,026	\$36,386	HX200X06NP447T	249	199	95.8	2615	47.339	3.375
	1200	504/5T	\$34,090	\$36,134	\$36,495	HX200X06NP	249	199	95.8	2615	49.445	3.625
	900	449T	\$56,671	\$58,607	\$59,193	HX200X08NP449T	283	226	95.0	3580	54.996	3.375
	900	586/7T	\$60,304	P.O.A	P.O.A	HX200X08NP	261	209	95.0	4167	61.389	3.875
250	3600	447TS	\$35,516	\$37,452	\$37,827	HX250X02NP447TS	269	215	95.8	2491	45.589	2.375
	3600	504/5TS	\$35,516	\$37,560	\$37,935	HX250X02NP	269	215	95.8	2491	46.875	2.875
	1800	447T	\$34,183	\$36,226	\$36,588	HX250X04NP447T	284	227	96.2	2646	47.339	3.375
	1800	504/5T	\$34,183	\$36,226	\$36,588	HX250X04NP	284	227	96.2	2646	49.445	3.625
	1200	449T	\$52,902	\$54,838	\$55,387	HX250X06NP449T	299	239	95.8	3188	54.996	3.375
	1200	586/7T	\$61,635	P.O.A	P.O.A	HX250X06NP	303	242	95.8	3858	61.389	3.875
	900	586/7T	\$66,408	P.O.A	P.O.A	HX250X08NP	316	253	95.4	4409	61.389	3.875
300	3600	449TS	\$51,853	\$53,789	\$54,327	HX300X02NP449TS	320	256	95.8	3307	51.246	2.375
	3600	586/7TS	\$60,177	P.O.A	P.O.A	HX300X02NP	328	262	95.8	4409	54.514	2.375
	1800	449T	\$45,150	\$47,086	\$47,557	HX300X04NP449T	334	267	96.2	3086	54.996	3.375
	1800	586/7T	\$52,208	P.O.A	P.O.A	HX300X04NP	338	270	96.2	4078	61.389	3.875
	1200	449T	\$55,217	\$57,153	\$57,724	HX300X06NP449T	351	281	95.8	3197	54.996	3.375
	1200	586/7T	\$63,767	P.O.A	P.O.A	HX300X06NP	351	281	95.8	4189	61.389	3.875
	900	586/7T	\$77,576	P.O.A	P.O.A	HX300X08NP	376	301	95.4	4817	61.389	3.875
350	3600	449TS	\$59,964	\$61,900	\$62,519	HX350X02NP449TS	379	303	95.8	3638	51.246	2.375
	3600	586/7TS	\$69,224	P.O.A	P.O.A	HX350X02NP	388	310	95.8	4409	54.514	2.375
	1800	449T	\$49,181	\$51,117	\$51,628	HX350X04NP449T	390	312	96.2	3417	54.996	3.375
	1800	586/7T	\$56,791	P.O.A	P.O.A	HX350X04NP	395	316	96.2	4233	61.389	3.875
	1200	586/7T	\$73,599	P.O.A	P.O.A	HX350X06NP	421	337	95.8	4519	61.389	3.875
400	900	586/7T	\$77,576	P.O.A	P.O.A	HX350X08NP	439	351	95.4	4894	61.389	3.875
	1800	586/7T	\$64,197	P.O.A	P.O.A	HX400X04NP	460	368	96.2	4365	61.389	3.875
450	1200	586/7T	\$84,943	P.O.A	P.O.A	HX400X06NP	479	383	95.8	4982	61.389	3.875
	1800	586/7T	\$68,520	P.O.A	P.O.A	HX450X04NP	501	401	96.2	4586	61.389	3.875
500	1800	586/7T	\$74,457	P.O.A	P.O.A	HX500X04NP	568	454	96.2	4828	61.389	3.875

Flange: Replace 'H' with 'C' for C Flange  
 Replace 'H' with 'D' for D Flange  
 Voltage: Replace 'X' with '4' for 208-230/460V  
 Replace 'X' with '5' for 575V

# Explosion Proof NEMA Premium Motors

## TEFC - Electrical Data

Rated Output HP	kW	Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (I/Ln)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
				230V	460V	575V								50%	75%	100%	50%	75%	100%
1	0.75	3495	143/5T	2.98	1.49	1.19	9.0	300%	400%	40	61.7	68	1.15	75.5	77.0	77.0	0.65	0.76	0.82
		1760	143/5T	2.86	1.43	1.14	8.6	290%	370%	18	61.7	51	1.15	80.0	82.5	85.5	0.57	0.70	0.77
		1150	143/5T	3.26	1.63	1.30	6.2	260%	280%	28	52.9	50	1.15	77.0	82.0	82.5	0.61	0.63	0.70
		875	182/4T	4.80	2.40	1.92	6.0	300%	350%	22	112	50	1.15	74.0	75.5	75.5	0.32	0.42	0.52
1.5	1.1	3500	143/5T	4.10	2.05	1.64	9.2	300%	400%	20	61.7	68	1.15	78.5	82.5	84.0	0.62	0.73	0.80
		1760	143/5T	4.10	2.05	1.64	8.9	270%	350%	14	70.5	51	1.15	81.5	85.5	86.5	0.58	0.70	0.78
		1165	182/4T	4.65	2.32	1.86	6.6	230%	330%	35	1175	52	1.15	84.5	86.5	87.5	0.47	0.59	0.68
		860	182/4T	5.68	2.84	2.27	6.2	240%	260%	17	128	50	1.15	77.0	78.5	78.5	0.42	0.54	0.62
2	1.5	3495	143/5T	5.38	2.69	2.15	9.4	350%	400%	15	66.1	68	1.15	80.0	84.0	85.5	0.64	0.76	0.82
		1750	143/5T	5.44	2.72	2.18	8.9	250%	320%	11	72.8	51	1.15	84.0	85.5	86.5	0.60	0.73	0.80
		1165	182/4T	6.26	3.13	2.50	7.0	260%	330%	35	129	52	1.15	84.5	86.5	88.5	0.47	0.58	0.68
		875	213/5T	6.90	3.45	2.76	7.0	230%	280%	35	198	52	1.15	80.0	82.5	84.0	0.45	0.57	0.65
3	2.2	3510	182/4T	7.52	3.76	3.01	8.4	250%	400%	30	90.4	69	1.15	82.5	85.5	86.5	0.73	0.81	0.85
		1760	182/4T	7.82	3.91	3.13	8.0	250%	320%	28	115	56	1.15	87.5	88.5	89.5	0.59	0.71	0.79
		1175	213/5T	8.82	4.41	3.53	7.0	220%	250%	58	203	55	1.15	86.5	88.5	89.5	0.50	0.62	0.70
		865	213/5T	8.72	4.36	3.49	7.1	210%	240%	32	201	52	1.15	84.0	85.5	85.5	0.54	0.66	0.74
5	3.7	3490	182/4T	12.2	6.10	4.88	7.5	250%	380%	26	106	69	1.15	85.5	87.5	88.5	0.70	0.81	0.86
		1750	182/4T	13.1	6.57	5.26	7.1	210%	330%	17	130	56	1.15	86.5	88.5	89.5	0.59	0.71	0.79
		1170	213/5T	13.7	6.83	5.46	6.8	170%	260%	57	205	55	1.15	88.5	89.5	89.5	0.58	0.70	0.76
		880	254T	15.9	7.93	6.34	5.3	210%	270%	21	313	54	1.15	84.0	86.5	87.5	0.46	0.58	0.67
7.5	5.5	3525	213/5T	17.1	8.57	6.86	7.0	220%	300%	23	190	72	1.15	85.5	88.5	89.5	0.78	0.87	0.90
		1765	213/5T	18.8	9.41	7.53	6.7	240%	280%	12	207	58	1.15	90.2	91.0	91.7	0.60	0.73	0.80
		1175	254T	19.5	9.73	7.78	7.0	270%	320%	25	309	59	1.15	88.5	90.2	91.0	0.58	0.71	0.78
		880	256T	23.2	11.6	9.28	5.3	210%	280%	23	353	54	1.15	86.5	87.5	87.5	0.48	0.60	0.68
10	7.5	3515	213/5T	23.2	11.6	9.28	6.9	210%	280%	15	201	72	1.15	89.5	90.2	90.2	0.81	0.88	0.90
		1765	L215T	25.4	12.7	10.2	6.5	210%	300%	15	229	58	1.15	90.2	91.0	91.7	0.62	0.75	0.81
		1175	256T	26.6	13.3	10.6	7.2	270%	310%	26	364	59	1.15	89.5	90.2	91.0	0.60	0.70	0.78
		884	284T	26.8	13.4	10.7	6.0	250%	240%	30	467	54	1.15	91.0	91.7	91.0	0.62	0.72	0.77
15	11	3540	254T	34.8	17.4	13.9	6.8	200%	270%	31	317	75	1.15	90.0	90.5	91.0	0.84	0.83	0.87
		1770	254T	36.8	18.4	14.7	7.3	300%	300%	26	328	69	1.15	90.2	91.7	92.4	0.65	0.75	0.81
		1180	284T	35.0	17.5	14.0	7.2	250%	260%	25	463	59	1.15	91.0	91.7	91.7	0.74	0.83	0.86
		880	286T	38.0	19.0	15.2	6.1	240%	230%	37	507	54	1.15	91.0	91.7	91.0	0.66	0.76	0.80
20	15	3530	256T	46.4	23.2	18.6	6.2	200%	250%	26	357	75	1.15	90.2	91.0	91.7	0.79	0.86	0.89
		1770	256T	50.0	25.0	20.0	7.5	300%	300%	20	364	69	1.15	91.7	92.4	93.0	0.63	0.75	0.81
		1180	286T	48.4	24.2	19.4	7.2	250%	270%	22	500	59	1.15	91.7	91.7	91.7	0.70	0.80	0.85
		880	324T	55.0	27.5	22.0	5.3	230%	230%	25	606	56	1.15	91.7	92.4	92.4	0.56	0.67	0.74
25	18.5	3555	284TS	57.2	28.6	22.9	9.0	280%	330%	58	452	75	1.15	91.7	92.4	92.4	0.78	0.85	0.88
		1775	284T	59.8	29.9	23.9	8.2	320%	320%	20	472	68	1.15	92.4	93.6	93.6	0.67	0.78	0.83
		1180	324T	60.8	30.4	24.3	6.4	230%	260%	25	639	62	1.15	92.4	93.0	93.0	0.65	0.76	0.82
		880	326T	70.8	35.4	28.3	5.1	240%	240%	20	672	56	1.15	91.0	92.4	92.4	0.51	0.63	0.71
30	22	3545	286TS	67.4	33.7	27.0	7.7	260%	300%	14	529	75	1.15	92.4	93.0	93.0	0.78	0.86	0.88
		1775	286T	72.0	36.0	28.8	7.9	350%	350%	17	511	68	1.15	93.0	93.6	93.6	0.66	0.77	0.82
		1180	326T	73.4	36.7	29.4	7.1	240%	270%	25	694	62	1.15	92.4	93.0	93.0	0.63	0.75	0.81
		885	364/5T	77.0	38.5	30.8	5.7	220%	220%	14	910	62	1.15	92.4	93.0	93.0	0.64	0.73	0.77
40	30	3555	324TS	91.5	45.8	36.6	6.6	270%	270%	43	516	81	1.15	92.4	93.6	93.6	0.80	0.86	0.88
		1780	324T	96.4	48.2	38.6	7.7	270%	300%	19	650	71	1.15	93.0	94.1	94.1	0.66	0.77	0.83
		1185	364/5T	94.2	47.1	37.7	7.0	230%	230%	24	1010	65	1.15	93.6	94.1	94.1	0.72	0.80	0.85
		885	364/5T	104	52.2	41.8	5.2	220%	220%	25	1058	62	1.15	93.0	93.6	93.6	0.64	0.73	0.77
50	37	3560	326TS	111	55.5	44.4	7.2	260%	260%	33	728	81	1.15	92.4	93.6	94.1	0.82	0.88	0.89
		1775	326T	121	60.6	48.5	7.3	260%	280%	20	705	71	1.15	93.6	94.5	94.5	0.65	0.76	0.81
		1185	364/5T	116	58.1	46.5	7.4	260%	280%	20	1036	65	1.15	93.6	94.1	94.1	0.71	0.81	0.85
		885	404/5T	136	68.0	54.4	7.3	220%	210%	12	1257	62	1.15	92.4	93.0	93.6	0.67	0.73	0.73
60	45	3550	364/5TS	137	68.6	54.9	6.4	200%	250%	60	1016	85	1.15	92.4	93.0	93.6	0.79	0.86	0.88
		1780	364/5T	137	68.3	54.6	7.0	250%	250%	20	1014	75	1.15	94.1	94.5	95.0	0.72	0.82	0.87
		1185	404/5T	141	70.3	56.2	6.9	250%	270%	29	1213	65	1.15	93.6	94.5	94.5	0.73	0.82	0.85
		885	404/5T	152	75.9	60.7	6.2	180%	220%	25	1279	62	1.15	92.4	93.0	93.0	0.65	0.75	0.80
75	55	3560	364/5TS	165	82.4	65.9	7.0	230%	260%	18	1025	85	1.15	93.0	94.1	94.1	0.81	0.87	0.89
		1780	364/5T	166	83.2	66.6	7.0	240%	290%	16	937	75	1.15	94.5	95.0	95.4	0.74	0.83	0.87
		1180	404/5T	174	87.0	69.6	7.7	250%	260%	15	1257	65	1.15	94.1	95.0	94.5	0.72	0.81	0.84
		890	444/5T	184	92.2	73.8	6.1	170%	210%	18	1911	64	1.15	93.6	94.1	93.6	0.66	0.76	0.80
100	75	3550	404/5TS	220	110	88.0	6.5	250%	280%	21	1206	85	1.15	93.6	95.0	95.0	0.85	0.89	0.90
		1780	404/5T	226	113	90.4	7.2	270%	300%	13	1221	75	1.15	94.5	95.0	95.4	0.72	0.82	0.87
		1190	444/5T	242	121	96.7	6.8	230%	260%	49	1896	70	1.15	94.1	95.0	95.0	0.66	0.76	0.82
		890	444/5T	250	125	100	6.1	170%	200%	16	2052	64	1.15	94.1	94.5	94.1	0.68	0.77	0.80

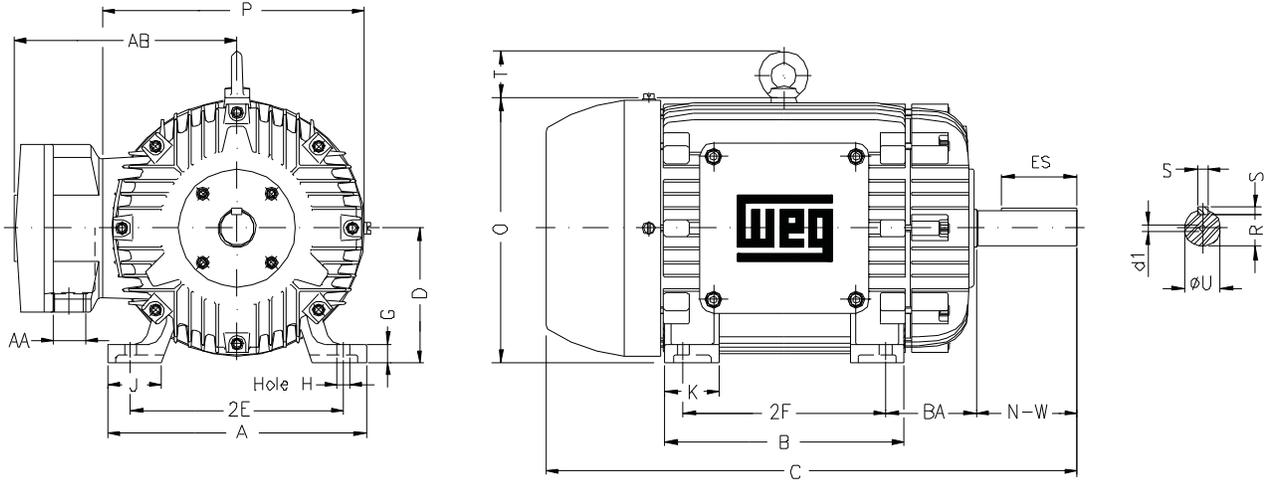
# Explosion Proof NEMA Premium Motors

## TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
150	110	3570	444/5TS	323	161	129	7.0	200%	250%	31	1984	86	1.15	93.6	95.0	95.4	0.85	0.89	0.90
		1780	444/5T	340	170	136	6.3	220%	250%	22	2094	76	1.15	95.0	95.8	95.8	0.72	0.81	0.85
		1185	447T	348	174	139	7.5	260%	260%	42	2540	73	1.15	95.0	95.8	95.8	0.68	0.78	0.83
		1185	504/5T	348	174	139	7.5	260%	260%	42	2540	73	1.15	95.0	95.8	95.8	0.68	0.78	0.83
		890	447T	358	179	143	6.0	170%	200%	18	2646	66	1.15	94.5	95.0	94.5	0.68	0.77	0.82
		890	504/5T	358	179	143	6.0	170%	200%	18	2646	66	1.15	94.5	95.0	94.5	0.68	0.77	0.82
200	150	3570	447TS	443	221	177	7.3	220%	260%	37	2491	87	1.15	94.1	95.4	95.8	0.84	0.88	0.89
		3570	504/5TS	443	221	177	7.3	220%	260%	37	2491	88	1.15	94.1	95.4	95.8	0.84	0.88	0.89
		1780	447T	460	230	184	6.9	230%	240%	25	2425	82	1.15	95.8	96.2	96.2	0.70	0.80	0.85
		1780	504/5T	460	230	184	6.9	230%	240%	25	2425	82	1.15	95.8	96.2	96.2	0.70	0.80	0.85
		1190	447T	498	249	199	7.8	270%	280%	14	2615	73	1.15	94.5	95.4	95.8	0.60	0.73	0.79
		1190	504/5T	498	249	199	7.8	270%	280%	14	2615	73	1.15	94.5	95.4	95.8	0.60	0.73	0.79
250	185	890	449T	565	283	226	7.5	280%	300%	13	3580	66	1.15	92.4	94.5	95.0	0.52	0.63	0.70
		890	586/7T	523	261	209	5.7	120%	210%	65	4167	75	1.15	94.1	94.5	95.0	0.60	0.71	0.76
		3570	447TS	538	269	215	8.0	240%	280%	18	2491	87	1.15	95.0	95.4	95.8	0.83	0.89	0.90
		3570	504/5TS	538	269	215	8.0	240%	280%	18	2491	88	1.15	95.0	95.4	95.8	0.83	0.89	0.90
		1780	447T	568	284	227	7.0	210%	230%	30	2646	82	1.15	95.4	96.2	96.2	0.72	0.81	0.85
		1780	504/5T	568	284	227	7.0	210%	230%	30	2646	77	1.15	95.4	96.2	96.2	0.72	0.81	0.85
300	220	1190	449T	598	299	239	8.1	280%	300%	10	3188	70	1.15	95.0	95.4	95.8	0.64	0.76	0.81
		1190	586/7T	605	303	242	6.0	180%	210%	33	3858	77	1.15	93.6	95.4	95.8	0.67	0.75	0.80
		890	586/7T	633	316	253	5.8	100%	210%	26	4409	75	1.15	94.1	94.5	95.4	0.60	0.71	0.77
		3575	449TS	640	320	256	8.4	280%	340%	15	3307	84	1.15	94.5	95.4	95.8	0.82	0.88	0.90
		3580	586/7TS	655	328	262	6.6	130%	220%	34	4409	85	1.15	94.5	95.4	95.8	0.86	0.87	0.88
		1785	449T	668	334	267	8.0	280%	290%	14	3086	80	1.15	95.4	95.8	96.2	0.74	0.83	0.86
350	260	1790	586/7T	675	338	270	6.8	180%	210%	50	4078	83	1.15	95.0	95.8	96.2	0.78	0.84	0.85
		1190	449T	702	351	281	7.9	280%	300%	7	3197	70	1.15	95.0	95.4	95.8	0.66	0.77	0.82
		1190	586/7T	703	351	281	6.1	180%	210%	35	4189	77	1.15	93.6	95.4	95.8	0.68	0.75	0.82
		895	586/7T	752	376	301	6.2	140%	210%	24	4817	75	1.15	95.0	95.0	95.4	0.60	0.72	0.77
		3575	449TS	758	379	303	8.7	280%	340%	14	3638	84	1.15	95.0	95.8	95.8	0.82	0.88	0.90
		3580	586/7TS	775	388	310	6.6	130%	220%	35	4409	85	1.15	94.5	95.4	95.8	0.86	0.87	0.88
400	300	1780	449T	808	404	323	8.2	280%	290%	14	3417	80	1.15	95.4	95.8	96.2	0.70	0.80	0.84
		1790	586/7T	790	395	316	7.3	230%	230%	32	4233	83	1.15	95.0	95.8	96.2	0.77	0.84	0.86
		1190	586/7T	842	421	337	6.3	210%	210%	29	4519	77	1.15	95.4	95.8	95.8	0.67	0.77	0.81
		890	586/7T	878	439	351	5.9	110%	200%	25	4894	75	1.00	94.1	94.5	95.4	0.60	0.64	0.78
450	330	1790	586/7T	920	460	368	6.4	180%	200%	18	4365	83	1.15	95.4	96.2	96.2	0.80	0.84	0.85
		1190	586/7T	959	479	383	6.0	200%	200%	71	4982	77	1.15	93.6	95.0	95.8	0.70	0.78	0.82
500	370	1790	586/7T	1002	501	401	6.5	180%	200%	24	4586	83	1.15	95.8	96.2	96.2	0.81	0.85	0.86
		1190	586/7T	1080	540	432	6.0	150%	210%	34	5004	77	1.00	93.6	95.0	95.8	0.69	0.77	0.80
500	370	1790	586/7T	1136	568	454	6.3	210%	230%	25	4828	83	1.00	95.8	96.2	96.2	0.81	0.84	0.85

# Explosion Proof NEMA Premium Motors

## TEFC - Mechanical Data

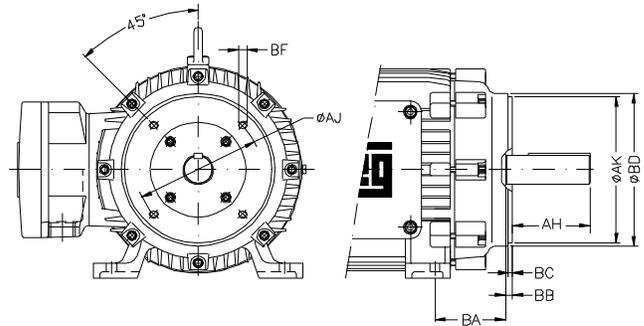


NEMA Frames	Mounting				A	B	C	D	G	J	K	O	P	T	Keyway			Shaft Extension		AB	AA	d1	Bearings			
	2E	2F	H	BA											S	R	ES	N-W	U				D.E.	N.D.E.		
143/5T	5.500	4.000/5.000	0.344	2.250	6.457	5.157	13.752	3.500	0.429	1.496	1.654	7.000	7.000	1.677	0.187	0.771	1.575	2.250	0.875	6.811	NPT 0.75"	6205-2RS	6204-2RS			
145T		5.000			6.142	6205-2RS																6204-2RS				
182/4T	7.500	4.500/5.500	0.406	2.750	8.661	5.945	15.862	4.500	0.787	1.890	1.969	9.421	8.909		0.250	0.984	1.969	2.750	1.125	8.240	NPT 0.75"	6307-2RS	6206-2RS			
184T		5.500			6.969	6307-2RS																6206-2RS				
213/5T	8.500	5.500/7.000	0.409	3.500	9.764	8.898	19.450	5.250	0.877	2.037	3.058	11.156	10.709	1.772	0.313	1.203	2.480	3.375	1.375	9.252	NPT 1"	6308-2RS	6207-2RS			
215T		7.000			20.631	6308-2RS																6207-2RS				
L215T		7.000/8.171			10.088	20.631															NPT 1"	6308-2RS	6207-2RS			
254T	10.000	8.252		4.250	12.126	10.000	23.175	6.250	0.817	2.520	2.559	12.352	12.224	2.087	0.375	1.416	2.756	4.000	1.625	11.063		A4	6309-C3	6309-C3		
256T		10.000			11.732	24.923										6309-C3							6309-C3			
284T	11.000	9.500	0.531	4.750	13.780	26.407	7.000	1.024	3.150	2.953	14.362	14.094	2.441		0.500	1.594	3.149	4.622	1.875	11.850	NPT 1.5"		6311-C3	6311-C3		
284TS						25.033									7.000	1.024	3.150	2.953	14.362				14.094	2.441	0.375	1.406
286T	11.000	11.000			13.071	27.905									0.500	1.594	3.149	4.622	1.875				6311-C3	6311-C3		
286TS						26.531																			0.375	1.406
324T	12.500	10.500			13.071	29.602									1.844	3.937	5.250	2.125	12.961	NPT 2"			6312-C3	6312-C3		
324TS						28.102									8.000	1.307	3.228	3.346					15.992	15.697	0.500	1.594
326T	12.500	12.000	0.657		14.567	31.106									1.844	3.937	5.250	2.125					6312-C3	6312-C3		
326TS						29.606																			0.500	1.594
364/5T	14.000	11.250/12.250			15.394	33.701	9.000	1.480	3.150	4.134	18.898				0.625	2.019	4.330	5.874	2.375	16.654	NPT 3"			6314-C3	6314-C3	
364/5TS						31.575																			0.500	1.591
404/5T	16.000	12.250/13.752			17.520	38.074	10.000	1.812		5.433	19.843				0.750	2.449	5.512	7.250	2.875	21.732	UNC 0.75"			6217-C3	6314-C3	
404/5TS						35.074																			0.500	1.842
444/5T	18.000	14.500/16.500	0.807		20.079	43.797				3.937	5.591				0.875	2.880	7.087	8.500	3.375	20.984	2xNPT 3"			6219-C3	6316-C3	
444/5TS						40.047																			0.625	2.021
447T	18.000	20.000			23.640	47.339	11.000	1.630							0.875	2.880	7.087	8.500	3.375					6319-C3	6316-C3	
447TS						43.589																			0.625	2.021
449T	18.000	25.000			32.126	54.996				7.104					0.875	2.880	7.087	8.500	3.375					6322-C3	6319-C3	
449TS						51.246																			0.625	2.021
504/5T	20.000	16.000/18.000	1.250	8.500	24.724	49.445	12.500	2.146	4.724	5.984	25.197	24.212			0.875	3.134	8.661	10.630	3.625	21.850				6319-C3	6316-C3	
504/5TS						46.875																			0.625	2.021
586/7T	23.000	22.000/25.000	1.181	10.000	29.528	61.389	14.500	2.492	5.236	7.874	30.428	30.709	4.291		1.000	3.312	8.661	11.625	3.875	25.787				UNC 7/8"	6322-C3	6319-C3
586/7TS						54.514																			0.625	2.021

# Explosion Proof NEMA Premium Motors

## TEFC - Mechanical Data

"C" FLANGE DIMENSIONS													
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH				
					NUMBER	TAP SIZE							
143/5TC	2.250	5.875	4.500	6.500	4	UNC 3/8"x16	0.156	0.125	2,125				
145TC									2,625				
182/4TC	2.750											3,125	
184TC												3,750	
213/5TC	3.500	7.250	8.500	8.875									4,375
215TC													5,000
L215TC	4.250												3,500
254TC													4,375
256TC	4.750	9.000	10.500	11.031									3,000
284TC													3,000
286TC	4.750	9.000	10.500	11.031					5,000				
286TSC									3,500				
324TC	5.250			13.583					5,000				
324TSC									3,500				
326TC	5.250			13.583					5,625				
326TSC									3,500				
364/5TC	5.875	11.000	12.500						5,625				
364/5TSC									3,500				
404/5TC	6.625			15.562					7,000				
404/5TSC									4,000				
444/5TC	7.500	14.000	16.000						8,250				
444/5TSC									4,500				
447TC	7.500	14.000	16.000						8,250				
447TSC									4,500				
449TC	7.500	14.000	16.000						8,250				
449TSC									4,500				
504/5TC	8.500	14.500	16.500						10,375				
504/5TSC									4,500				
586/7TC	10.000	14.500	16.500						4,500				
586/7TSC	10.000								4,500				



"D" FLANGE DIMENSIONS												
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	AH				
					NUMBER	TAP SIZE						
143/5TD	2.250			11.000	4		0.551	2,125				
145TD								2,625				
182/4TD	2.750	10.000	9.000	11.000							3,125	
184TD											3,750	
213/5TD	3.500											4,375
215TD												5,000
L215TD	4.250											3,500
254TD												4,375
256TD	4.750	12.500	11.000	14.000								3,000
284TD												3,000
284TSD	4.750	12.500	11.000	14.000					5,000			
286TD									3,500			
286TSD	5.250			18.000					5,000			
324TD									3,500			
324TSD	5.250			18.000					5,625			
326TD									3,500			
326TSD	5.875	16.000	14.000	18.000					5,625			
364/5TD									3,500			
364/5TSD	6.625			21.656					7,000			
404/5TD									4,000			
404/5TSD	7.500	20.000	18.000	21.656					8,250			
444/5TD									4,500			
444/5TSD	7.500	20.000	18.000	21.656					8,250			
447TD									4,500			
447TSD	7.500	20.000	18.000	21.656					8,250			
449TD									4,500			
449TSD	8.500			24.803					10,375			
504/5TD									4,500			
504/5TSD	10.000	30.000	28.000	32.000					11,375			
586/7TD									4,500			
586/7TSD	10.000	30.000	28.000	32.000					4,500			

