W22 IEC Tru-Metric - NEMA Premium Efficiency
TEFC

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4, 6, and 8 poles, 60Hz & 50Hz
- Voltage:
  - 460//220-240/380-415V (frames 63 to 100L)
  - 460//380-415V (frames 112M to 355M/L)
  - 575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- Sealing:
  - V’Ring sealing up to frame 200L
  - WSeal® (double lipped V’Ring with a metallic cap) sealing on both endshields from frame 225S/M up to 355M/L
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 225S/M and all 2 pole motors and frame 250S/M
- 4140 for 250S/M 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 200L
  - CFRI Continuous Flow Resin Impregnation Insulation system with class “H” resin for frame 225S/M and up.
- Insulated endbells from frame 315L and up
- Design “N”
- Service Factor (60Hz only):
  - 1.25 up to frame 315L
  - 1.15 for frame 355M/L
- Continuous duty (S1)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Metric threaded cable entries on the terminal box
- Re-configurable Terminal Box for frames 225S/M and up
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207A - Frames 63 to 132M
  - 203A - Frames 160M to 355M/L
- Color: RAL 5009 - Blue
- Fitted with closed rubber drain breathers
- Regreasable bearings for frames 160 and up
- Terminal block

Class I, Div 2, Groups A,B,C & D
Class II, Div 2, Groups F & G
Class I, Zone 2, IIC

Inverter Ratings FOR 60 HZ ONLY				
Frames	Poles	Constant Torque	Variable Torque	VFD
63 - 355M/L ≤ 250HP	All	20:1	1000:1	Any
	All	1000:1*		WEG
315L - 355M/L > 250 HP	All	6:1		Any
	All	12:1*		WEG
* Can only be achieved by a WEG VFD running in Sensorless Vector See page 7.6 for details				

Optional Features

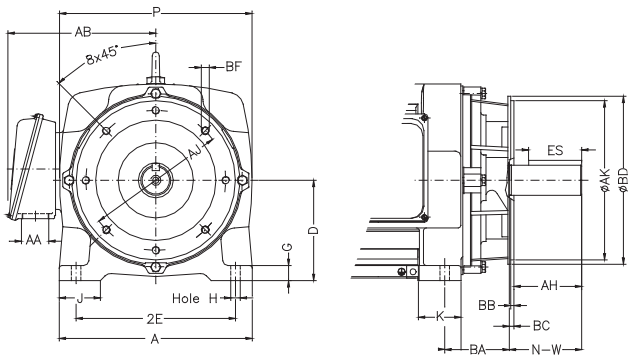
- Special voltages
- Special shafts
- Space heaters
- Labyrinth taconite seal available for all ratings
- Thermostats, Thermistors, RTD’s (PT100)
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- NEMA C & D flanges and Metric flanges for all ratings
- Roller bearings
- Special paint
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Insulated bearings
- Insulated endbells (frame 225 and up)
- Degree of protection: IP56, IP65, IP66
- Forced ventilation
- Encoders
- No feet
- Class ‘H’ insulation
- Aluminum frames available from frame 63 to 132

W40 NEMA Premium Motors

ODP - Mechanical Data

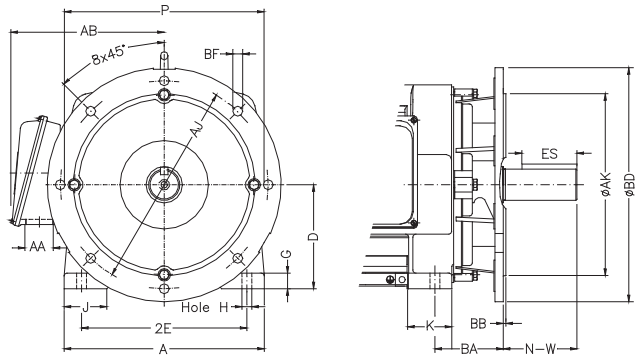
FC Flange

NEMA FRAME	BA	BC	AJ	AK	BD	S	T	AH	α	Nº of holes
254T	4.25	0.250	7.250	8.500	8.875	UNC 1/2"x13	0.250	3.750	45°	4
256T										
284TS	4.75		7.250	10.500	11.031			3.000		
284T								4.375		
286TS								3.000		
286T								4.375		
324TS	5.25		11.000	12.500	15.562	UNC 5/8"x11		3.500		
324T								5.000		
326TS								3.500		
326T								5.000		
364/5TS	5.875							3.500		8
364/5T								5.625		
404/5TS	6.625							4.000		
404/5T								7.000		
444/5TS	7.5		14.000	16.000	17.913			4.500		
444/5T								8.250		
447/9TS										
447/9T								8.250		



FD Flange

NEMA FRAME	BA	AJ	AK	BD	S	T	AH	α	Nº of holes
254T	4.25	12.500	11.000	14.000	0.828	0.250	3.750	45°	4
256T									
284TS	4.75					0.203	3.000		
284T							4.375		
286TS							3.000		
286T							4.375		
324TS	5.25	16.000	14.000	18.000		0.250	3.500		
324T							5.000		
326TS							3.500		
326T							5.000		
364/5TS	5.875			17.716			3.500		
364/5T							5.625		
404/5TS	6.625	20.000	18.000	21.653			4.000		8
404/5T							7.000		
444/5TS	7.5						4.500		
444/5T							8.250		
447/9TS						0.203			
447/9T							8.250		



W40 NEMA Premium Motors

ODP - Mechanical Data

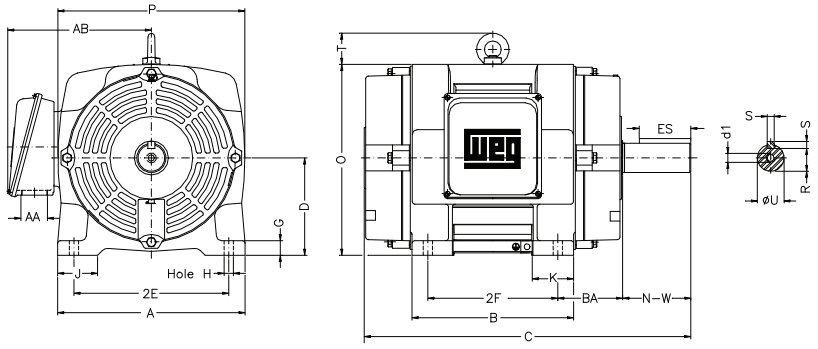
NEMA FRAME	2E	J	A	AB	P	2F	K	B	BA	U	d1	N-W	Es	S	R
254T	10.000	2.520	12.130	10.079	11.812	8.250	2.560	10.100	4.250	1.625	A4	4.000	2.756	0.375	1.406
256T						10.000		11.732							
284TS	11.000	3.150	13.780	10.886	13.700	9.500	2.960	11.574	4.750			3.250	2.480		
284T												4.622	3.149	0.500	1.594
286TS						11.000		13.070				3.250	2.480	0.375	1.406
286T										1.875		4.622	3.149	0.500	1.594
324TS	12.500	3.230	15.160	11.496	15.118	10.500	3.350		5.250			3.750	2.756		
324T										2.125		5.250	3.937		1.844
326TS						12.000		14.566		1.875		3.750	2.756		1.594
326T										2.125		5.250	3.937		1.844
364/5TS	14.000	3.520	17.170	15.580	18.500	11.250/12.250	4.850	15.320	5.875	1.875	DUNC 3/4"-10	3.748	1.968		1.591
364/5T										2.375		5.874	4.330	0.625	2.019
404/5TS	16.000	3.940	19.920			12.250/13.750	5.650	17.870	6.625	2.125		4.250	2.756	0.500	1.842
404/5T										2.875		7.250	5.512	0.750	2.449
444/5TS	18.000	2.940	21.260	18.710	22.470	14.500/16.500	6.820	19.730	7.500	2.375		4.750	3.000	0.625	2.021
444/5T										3.375		8.500	7.087	0.875	2.880
447/9TS	18.000	3.940	21.929	21.466	25.197	20.000/25.000	9.000	26.819		2.375		4.750	3.000	0.625	2.021
447/9T										3.375		8.500	7.087	0.875	2.880
5010/11 - 2P	20.000	5.236	24.724	28.812	30.670	32.000/36.000	14.200	40.260	8.504	3.625	DUNC 3/4"-10	4.750	3.000	0.625	2.275
5010/11										3.625		10.630	8.861	0.875	3.134
L5010/11 - 2P	20.000	5.140	24.803	34.908	34.095	32.000/36.000	10.685	42.256	8.500	3.250	DUNC 3/4"-10	5.750	4.331	0.750	2.831
L5010/11										4.375	DUNC 1"-8	11.625	8.661	1.000	3.817
L5810/11 - 2P	23.000	6.710	29.530	34.908	39.976	36.000/40.000	10.810	46.785	10.000	3.375	DUNC 7/8"-9	6.750	5.512	0.875	2.880
L5810/11										5.125	DUNC 1 1/4"	11.625	9.842	1.250	4.423

NEMA FRAME	D	G	O	LL	LM	HB	HD	HF	HG	HH	HK	Hole H	C	AA	Bearings	
															Drive end	Non-drive end
254T	6.250	0.787	12.204	6.300	6.693	-	-	-	-	-	-	0.531	20.669	NPT 1 1/2"	6309 Z-C3	6209 Z-C3
256T	6.250												22.401			
284TS	7.000	1.102	13.858										22.000		6311 Z-C3	6211 Z-C3
284T													23.386			
286TS													23.504		6311 Z-C3	6211 Z-C3
286T													24.882			
324TS	8.000	1.299	15.551	7.874	8.268							0.656	24.685	NPT 2"	6312 Z-C3	6212 Z-C3
324T													26.181			
326TS																
326T													27.667			
364/5TS	9.000	1.130	18.410	10.590	11.260	4.26				12		0.657	27.520	NPT 3"	6314 C3	6212-Z-C3
364/5T													29.650			
404/5TS	10.000	1.130	19.410			5.26				13.5		0.807	31.020			
404/5T													34.020		6316 C3	
405TS													31.020		6314 C3	
405T													34.020		6316 C3	
444/5TS	11.000	1.130	21.950	14.940	15.060	4.88				15.75			34.360	2XNPT 3"	6314 C3	
444/5T													38.110		6319 C3	6316 C3
447/9TS		1.400	22.000	15.905	17.717							0.081	43.000		6314	6314
447/9T													46.709		6319	
5010/11 - 2P	12.500	1.972	27.150	18.090	21.428	13.732	34.850	25.042	32.323	39.331	11.410	1.102	57.000	2xNPT 4"	6314 C3	6314 C3
5010/11													62.880		6319 C3	6314 C3
L5010/11 - 2P	12.500	1.873	29.527	21.850	32.874	5.510	38.384	21.142	34.754	40.822	18.805	1.181	59.211	2xNPT 4"	6218 C3	6218 C3
L5010/11													65.086		6224 C3	6218 C3
L5810/11 - 2P	14.500	1.873	34.460	21.850	32.874	9.085	41.959	24.717	38.570	45.830	18.805	1.181	65.570	2xNPT 4"	6220 C3	6220 C3
L5810/11													70.444		6228 C3	6220 C3

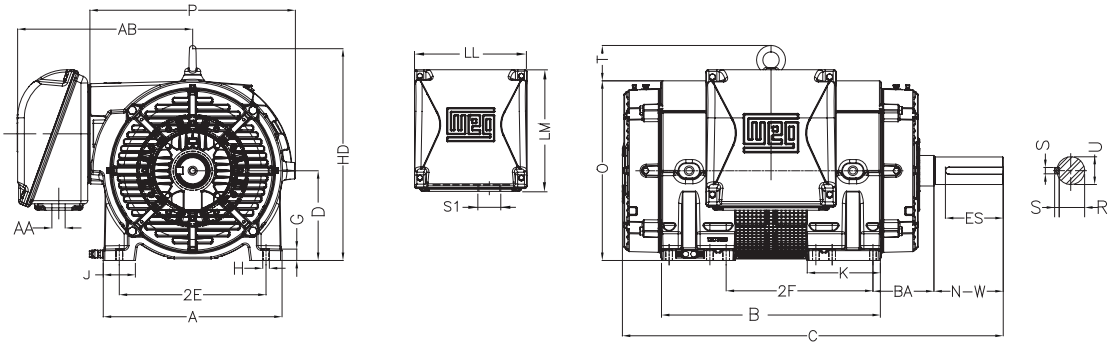
W40 NEMA Premium Motors

ODP - Mechanical Data

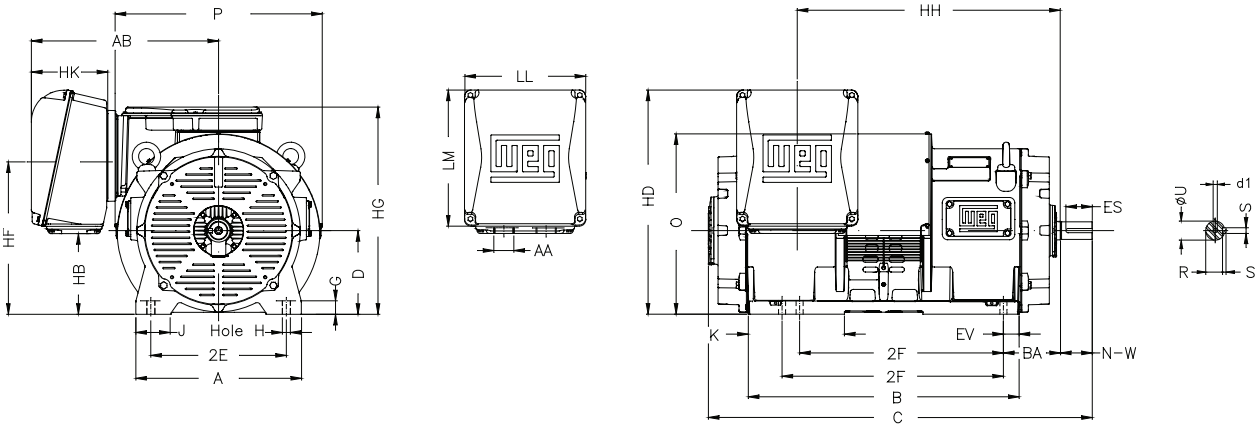
Frames 254T to 444/5T



Frame 447/9T



Frames L5010 to L5810



W40 NEMA Premium Motors

ODP - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	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%
15	11	1775	254T	37.3	18.6	14.9	6.7	290%	300%	14	254	59	1.15	91.7	92.4	93.0	0.60	0.72	0.80
		1180	284T	35.5	17.8	14.2	6.6	260%	280%	12	400	58	1.15	89.5	91.0	91.7	0.72	0.81	0.85
20	15	3520	254T	49.3	24.6	19.7	6.0	190%	250%	12	179	66	1.15	89.5	90.2	91.0	0.71	0.80	0.84
		1770	256T	49.5	24.8	19.8	6.3	260%	280%	12	295	60	1.15	91.7	93.0	93.0	0.63	0.72	0.82
		1175	286T	48.0	24.0	19.2	6.3	220%	240%	18	437	58	1.15	91.7	92.4	92.4	0.74	0.83	0.85
25	18.5	3530	256T	59.5	29.8	23.8	6.5	200%	260%	9	243	67	1.15	91.0	91.7	91.7	0.73	0.82	0.85
		1770	284T	59.8	29.9	23.9	6.7	250%	280%	15	342	62	1.15	92.4	93.0	93.6	0.67	0.78	0.83
		1180	324T	60.8	30.4	24.3	6.0	200%	240%	18	509	60	1.15	91.7	92.4	93.0	0.67	0.77	0.82
30	22	3540	284TS	69.5	34.8	27.8	6.4	220%	280%	10	333	72	1.15	92.4	93.0	92.4	0.77	0.84	0.86
		1770	286T	70.8	35.4	28.3	6.7	260%	280%	14	419	63	1.15	93.6	94.1	94.1	0.70	0.80	0.83
		1180	326T	72.0	36.0	28.8	6.2	220%	270%	17	630	60	1.15	91.7	93.0	93.6	0.65	0.77	0.82
40	30	3535	286TS	94.3	47.1	37.7	6.4	200%	260%	10	417	73	1.15	91.7	93.0	93.0	0.74	0.83	0.86
		1775	324T	96.5	48.3	38.6	6.2	220%	230%	28	529	64	1.15	93.6	94.1	94.1	0.68	0.78	0.83
		1185	364/5T	94.2	47.1	37.7	6,4	180%	230%	22	787	68	1.15	93.6	94.1	94.1	0.74	0.82	0.85
50	37	3555	324TS	118	59.1	47.3	6.4	220%	260%	28	496	74	1.15	92.4	93.6	93.6	0.74	0.82	0.84
		1775	326T	120	59.9	47.9	6.3	240%	250%	12	573	65	1.15	94.1	94.5	94.5	0.70	0.79	0.82
		1185	364/5T	116	58.1	46.5	6,7	200%	250%	15	820	68	1.15	93.6	94.1	94.1	0.74	0.82	0.85
60	45	3555	326TS	142	71.0	56.8	6.2	200%	260%	24	582	75	1.15	93.0	93.6	93.6	0.77	0.84	0.85
		1780	364/5T	140	69.9	55.9	6,5	200%	240%	19	785	69	1.15	94.5	95.0	95.0	0.73	0.82	0.85
		1185	404/5T	141	70.3	56.2	6,7	240%	270%	16	975	68	1.15	91.7	94.5	94.5	0.73	0.82	0.85
75	55	3565	364/5TS	170	84.8	67.8	6,6	180%	260%	19	736	84	1.15	91.7	93.0	93.6	0.77	0.84	0.87
		1780	364/5T	171	85.5	68.4	6,8	190%	250%	14	811	69	1.15	94.5	95.0	95.0	0.73	0.82	0.85
		1185	404/5T	172	85.9	68.7	6,7	240%	270%	11	1,008	68	1.15	94.1	94.5	94.5	0.72	0.81	0.85
100	75	3560	364/5TS	232	116	92.8	6,6	180%	260%	13	774	84	1.15	92.4	93.6	93.6	0.77	0.84	0.87
		1780	404/5T	230	115	92.0	6,8	200%	250%	12	992	69	1.15	95.0	95.4	95.4	0.75	0.83	0.86
		1190	444/5T	254	127	102	6,1	200%	250%	13	1,301	69	1.15	94.5	95.0	95.0	0.61	0.71	0.78
125	90	3560	404/5TS	272	136	109	6,8	170%	260%	12	886	84	1.15	93.0	94.1	94.1	0.79	0.86	0.88
		1780	404/5T	276	138	110	6,9	220%	260%	10	1,072	69	1.15	95.0	95.4	95.4	0.75	0.83	0.86
		1190	444/5T	308	154	123	6,3	210%	280%	11	1,389	69	1.15	94.5	95.0	95.0	0.59	0.71	0.77
150	110	3555	404/5TS	334	167	134	6,6	160%	240%	9	931	84	1.15	93.6	94.1	94.1	0.79	0.86	0.88
		1785	444/5T	340	170	136	6,5	180%	250%	22	1,374	78	1.15	95.4	95.8	95.8	0.74	0.82	0.85
		1190	444/5T	366	183	146	6,4	210%	270%	11	1,563	69	1.15	94.5	95.0	95.4	0.62	0.73	0.79
200	150	3570	444/5TS	450	225	180	6,5	170%	230%	21	1400	85	1.15	93.0	94.5	95.0	0.79	0.86	0.88
		1785	444/5T	468	234	187	6,6	190%	250%	14	1446	78	1.15	95.4	95.8	95.8	0.72	0.80	0.84
		1785	444/5TS	468	234	187	6,6	190%	250%	14	1446	78	1.15	95.4	95.8	95.8	0.72	0.80	0.84
		1185	447/9T	483	241	193	5.8	200%	220%	18	2205	79	1.15	95.0	95.4	95.4	0.69	0.78	0.82
250	185	3570	444/5TS	556	278	222	6,7	170%	230%	16	1488	85	1.15	93.6	94.5	95.0	0.79	0.85	0.88
		1780	444/5T	578	289	231	6,4	210%	250%	9	1517	78	1.15	95.4	95.8	95.8	0.72	0.80	0.84
		1780	444/5TS	578	289	231	6,4	210%	250%	9	1517	78	1.15	95.4	95.8	95.8	0.72	0.80	0.84
		1185	447/9T	600	300	240	6.5	220%	240%	18	2426	79	1.15	95.4	95.8	95.4	0.67	0.77	0.81
300	220	3570	444/5TS	658	329	263	6,5	180%	240%	12	1535	85	1.15	95.0	95.4	95.4	0.80	0.86	0.88
		1780	447/9T	648	324	259	7.1	220%	230%	10	2095	77	1.15	95.8	95.8	95.8	0.81	0.87	0.89
		1185	447/9T	715	358	286	6.7	220%	240%	18	2646	79	1.15	95.4	95.8	95.4	0.67	0.77	0.81
350	260	3565	447/9TS	768	384	307	6.5	170%	250%	14	1819	87	1.15	95.0	95.4	95.4	0.83	0.88	0.89
		1780	447/9T	785	393	314	6.6	200%	230%	10	2315	77	1.15	95.8	95.8	95.8	0.79	0.85	0.87
400	300	3565	447/9TS	885	443	354	6.5	170%	250%	14	1896	87	1.15	95.4	95.8	95.8	0.83	0.88	0.89
		1780	447/9T	905	453	362	6.8	230%	230%	9	2536	77	1.15	95.8	95.8	95.8	0.78	0.85	0.87
450	330	3565	447/9TS	956	478	382	6.8	180%	250%	14	2073	87	1.15	95.8	96.2	96.2	0.84	0.89	0.90
		1787	5010/11	1014	507	406	6.8	220%	220%	18	3087	80	1.15	95.4	95.8	96.2	0.73	0.82	0.85
500	370	3570	447/9TS	1072	536	429	7.1	190%	250%	14	2139	87	1.15	95.8	96.2	96.2	0.84	0.89	0.90
		1787	5010/11	1136	568	454	7.0	230%	230%	17	3308	80	1.15	95.4	95.8	96.2	0.73	0.82	0.85
550	400	3565	447/9TS	1160	580	464	7.2	200%	250%	14	2271	87	1.15	95.8	96.2	96.2	0.84	0.89	0.90
		1787	5010/11	1200	600	480	6.8	220%	220%	16	3528	80	1.15	95.6	96.2	96.2	0.76	0.84	0.87
600	440	3570	447/9TS	1276	638	510	7.9	200%	270%	14	2359	87	1.15	95.8	96.2	96.2	0.83	0.89	0.90
		1787	5010/11*	1320	660	528	6.8	220%	220%	12	3749	80	1.00	95.8	96.2	96.2	0.76	0.84	0.87
650	480	3570	5010/11	1430	715	572	6.5	180%	230%	12	2977	89	1.15	95.0	95.4	95.8	0.78	0.85	0.88
		1785	L5010/11	1474	737	590	6.0	150%	220%	25	5292	80	1.15	95.4	96.2	96.2	0.76	0.83	0.85
700	515	3570	5010/11	1534	767	614	6.8	200%	240%	16	3418	89	1.15	95.4	95.8	95.8	0.79	0.86	0.88
		1790	L5810/11	1578	789	631	6.8	160%	200%	22	5954	85	1.15	96.2	96.4	96.4	0.75	0.83	0.85
750	560	3580	5010/11	1654	827	662	7.5	210%	260%	12	3308	89	1.15	95.4	96.0	96.0	0.76	0.83	0.87
		1785	L5010/11	1740	870	696	6.5	170%	230%	25	5954	80	1.15	95.4	96.2	96.2	0.73	0.81	0.84
800	590	3575	5010/11	1770	885	708	7.4	200%	250%	12	3528	89	1.15	95.8	96.2	96.2	0.78	0.85	0.87
		1785	L5010/11	1812	906	725	6.2	160%	220%	25	5954	80	1.00	95.4	96.2	96.2	0.74	0.82	0.85
850	630	3575	5010/11*	1868	934	747	7.4	200%	250%	10	3638	89	1.00	95.8	96.2	96.2	0.78	0.85	0.88
		1790	L5810/11	1906	953	762	6.8	160%	210%	20	6615	85	1.15	96.4	96.5	96.5	0.77	0.84	0.86
900	660	3575	5010/11*	1958	979	783	7.2	200%	250%	8	3749	89	1.00	95.8	96.2	96.2	0.78	0.85	0.88
		1790	L5810/11	2020	1010	808	7.0	200%	220%	20	7166	85	1.15	96.4	96.5	96.5	0.75	0.83	0.86
1000	750	3575	L5010/11	2240	1120	896	5.2	100%	180%	25	5072	89	1.00	96.2	96.5	96.5	0.80	0.85	0.87
		1790	L5810/11	2300	1150	920	7.2	170%	200%	20	7718	85	1.00	96.4	96.5	96.5	0.78	0.84	0.85
1100	800	3580	L5810/11	2320	1160	928	6.5	120%	200%	20	6395	94	1.00	96.5	97.0	97.0	0.84	0.87	0.89
		1790	L5810/11	2440	1220	976	7.2	180%	210%	20	7718	85	1.00	96.4	96.5	96.5	0.77	0.84	0.85
1250	900	3580	L5810/11	2620	1310	1048	6.5	110%	200%	20	6615	94	1.00	96.5	97.0	97.0	0.86	0.88	0.89

W40 NEMA Premium Motors

ODP - 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				
15	1800	254T	$1,406	$1,637	$1,670	DP015X04NP	18.6	14.9	93.0	254	20.669	1.625
	1200	284T	$2,618	$2,903	$2,962	DP015X06NP	17.8	14.2	91.7	400	23.386	1.875
20	3600	254T	$1,748	$1,979	$2,018	DP020X02NP	24.6	19.7	91.0	179	20.669	1.625
	1800	256T	$1,802	$2,033	$2,074	DP020X04NP	24.8	19.8	93.0	295	22.401	1.625
	1200	286T	$3,175	$3,460	$3,529	DP020X06NP	24.0	19.2	92.4	437	24.882	1.875
25	3600	256T	$2,122	$2,352	$2,400	DP025X02NP	29.8	23.8	91.7	243	22.401	1.625
	1800	284T	$1,983	$2,269	$2,314	DP025X04NP	29.9	23.9	93.6	342	23.386	1.875
	1200	324T	$3,332	$3,676	$3,750	DP025X06NP	30.4	24.3	93.0	509	26.181	2.125
30	3600	284TS	$2,583	$2,869	$2,926	DP030X02NP	34.8	27.8	92.4	333	22.000	1.625
	1800	286T	$2,386	$2,672	$2,725	DP030X04NP	35.4	28.3	94.1	419	24.882	1.875
	1200	326T	$3,685	$4,029	$4,109	DP030X06NP	36.0	28.8	93.6	630	27.667	2.125
40	3600	286TS	$3,111	$3,396	$3,464	DP040X02NP	47.1	37.7	93.0	417	23.504	1.625
	1800	324T	$3,045	$3,389	$3,457	DP040X04NP	48.3	38.6	94.1	529	26.181	2.125
	1200	364/5T	$5,515	$6,218	$6,343	DP040X06NPW40	47.1	37.7	94.1	813	29.65	2.375
50	3600	324TS	$3,654	$3,981	$4,061	DP050X02NP	59.1	47.3	93.6	496	24.685	1.875
	1800	326T	$3,437	$3,764	$3,839	DP050X04NP	59.9	47.9	94.5	573	27.667	2.125
	1200	364/5T	$5,753	$6,456	$6,585	DP050X06NPW40	58.8	47.0	94.1	948	29.65	2.375
60	3600	326TS	$4,321	$4,648	$4,741	DP060X02NP	71.0	56.8	93.6	582	26.181	1.875
	1800	364/5T	$4,586	$5,289	$5,395	DP060X04NPW40	69.9	55.9	95.0	825	29.65	2.375
	1200	404/5T	$6,863	$7,566	$7,717	DP060X06NPW40	70.3	56.2	94.5	1,007	34.020	2.875
75	3600	364/5TS	$6,033	$6,737	$6,871	DP075X02NPW40	81.5	65.2	94.1	695	27.52	1.875
	1800	364/5T	$5,513	$6,216	$6,341	DP075X04NPW40	83.5	66.8	95.0	825	29.65	2.375
	1200	404/5T	$7,007	$7,710	$7,864	DP075X06NPW40	85.9	68.7	94.5	1,188	34.020	2.875
100	3600	364/5TS	$8,376	$9,079	$9,261	DP100X02NPW40	111	88.8	94.5	825	27.52	1.875
	1800	404/5T	$7,064	$7,767	$7,922	DP100X04NPW40	113	90.4	95.4	1,052	34.020	2.875
	1200	444/5T	$12,768	$13,870	$14,147	DP100X06NPW40	125	100	95.0	1,635	38.108	3.375
125	3600	404/5TS	$10,191	$10,895	$11,112	DP125X02NPW40	136	109	94.5	986	31.020	2.125
	1800	404/5T	$8,767	$9,471	$9,660	DP125X04NPW40	136	109	95.4	1,144	34.020	2.875
	1200	444/5T	$13,429	$14,530	$14,821	DP125X06NPW40	158	126	95.0	1,914	38.108	3.375
150	3600	404/5TS	$13,312	$14,016	$14,296	DP150X02NPW40	163	130	94.5	1,246	31.020	2.125
	1800	444/5T	$12,267	$13,368	$13,635	DP150X04NPW40	166	133	95.8	1,433	38.108	3.375
	1200	444/5T	$14,295	$15,397	$15,705	DP150X06NPW40	183	146	95.4	2,208	38.108	3.375
200	3600	444/5TS	$17,915	$19,016	$19,397	DP200X02NPW40	223	178	95.0	1537	34.358	2.375
	1800	444/5T	$15,009	$16,111	$16,433	DP200X04NPW40	229	183	95.8	1740	38.108	3.375
	1800	444/5TS	P.O.A	P.O.A	P.O.A	DP200X04NPSW40	229	183	95.8	1740	34.358	2.375
	1200	447/9T	P.O.A	P.O.A	P.O.A	DP200X06NPW40	241	193	95.4	2205	46.709	3.375
250	3600	444/5TS	$21,471	$22,572	$23,023	DP250X02NPW40	273	218	95.0	1806	34.358	2.375
	1800	444/5T	$18,515	$19,617	$20,009	DP250X04NPW40	275	220	95.8	2029	38.108	3.375
	1800	444/5TS	P.O.A	P.O.A	P.O.A	DP250X04NPSW40	275	220	95.8	2029	34.358	2.375
	1200	447/9T	P.O.A	P.O.A	P.O.A	DP250X06NPW40	300	240	95.4	2426	46.709	3.375
300	3600	444/5TS	$25,211	$26,312	$26,839	DP300X02NPW40	323	258	95.4	2007	34.358	2.375
	1800	447/9T	P.O.A	P.O.A	P.O.A	DP300X04NPW40	324	259	95.8	2095	46.709	3.375
	1200	447/9T	P.O.A	P.O.A	P.O.A	DP300X06NPW40	358	286	95.4	2646	46.709	3.375
350	3600	447/9TS	P.O.A	P.O.A	P.O.A	DP350X02NPW40	384	307	95.4	1819	43.00	2.375
	1800	447/9T	P.O.A	P.O.A	P.O.A	DP350X04NPW40	393	314	95.8	2315	46.709	3.375
400	3600	447/9TS	P.O.A	P.O.A	P.O.A	DP400X02NPW40	443	354	95.8	1896	43.00	2.375
	1800	447/9T	P.O.A	P.O.A	P.O.A	DP400X04NPW40	453	362	95.8	2536	46.709	3.375
450	3600	447/9TS	P.O.A	P.O.A	P.O.A	DP450X02NPW40	478	382	96.2	2073	43.00	2.375
	1800	5010/11	P.O.A	P.O.A	P.O.A	DP450X04NPW40	507	406	96.2	3087	62.88	3.625
500	3600	447/9TS	P.O.A	P.O.A	P.O.A	DP500X02NPW40	536	429	96.2	2139	43.00	2.375
	1800	5010/11	P.O.A	P.O.A	P.O.A	DP500X04NPW40	568	454	96.2	3308	62.88	3.625
550	3600	447/9TS	P.O.A	P.O.A	P.O.A	DP550X02NPW40	580	464	96.2	2271	43.00	2.375
	1800	5010/11	P.O.A	P.O.A	P.O.A	DP550X04NPW40	600	480	96.2	3528	62.88	3.625
600	3600	447/9TS	P.O.A	P.O.A	P.O.A	DP600X02NPW40	638	510	96.2	2359	43.00	2.375
	1800	5010/11	P.O.A	P.O.A	P.O.A	DP600X04NPW40	660	528	96.2	3749	62.88	3.625
	1800	L5010/11	P.O.A	P.O.A	P.O.A	DP600X04NPW40L5010	692	554	96.2	4851	65.086	4.375
650	3600	5010/11	P.O.A	P.O.A	P.O.A	DP650X02NPW40	715	572	95.8	2977	57.00	2.625
	1800	L5010/11	P.O.A	P.O.A	P.O.A	DP650X04NPW40	737	590	96.2	5292	65.086	4.375
700	3600	5010/11	P.O.A	P.O.A	P.O.A	DP700X02NPW40	767	614	95.8	3418	57.00	2.625
	1800	L5810/11	P.O.A	P.O.A	P.O.A	DP700X04NPW40	789	631	96.4	5954	70.444	5.125
750	3600	5010/11	P.O.A	P.O.A	P.O.A	DP750X02NPW40	827	662	96.0	3308	57.00	2.625
	3600	L5010/11	P.O.A	P.O.A	P.O.A	DP750X02NPW40L5010	825	660	96.2	4190	59.211	3.250
	1800	L5010/11	P.O.A	P.O.A	P.O.A	DP750X04NPW40	870	696	96.2	5954	65.086	4.375
	1800	L5810/11	P.O.A	P.O.A	P.O.A	DP750X04NPW40L5810	858	686	96.4	6174	70.444	5.125
800	3600	5010/11	P.O.A	P.O.A	P.O.A	DP800X02NPW40	885	708	96.2	3528	57.00	2.625
	3600	L5010/11	P.O.A	P.O.A	P.O.A	DP800X02NPW40L5010	885	708	96.2	4410	59.211	3.250
	3600	L5810/11	P.O.A	P.O.A	P.O.A	DP800X02NPW40L5810	860	688	96.8	4300	65.57	3.375
	1800	L5010/11	P.O.A	P.O.A	P.O.A	DP800X04NPW40	906	725	96.2	5954	65.086	4.375
850	3600	5010/11	P.O.A	P.O.A	P.O.A	DP850X02NPW40	934	747	96.2	3638	57.00	2.625
	1800	L5810/11	P.O.A	P.O.A	P.O.A	DP850X04NPW40	953	762	96.5	6615	70.444	5.125
900	3600	L5010/11	P.O.A	P.O.A	P.O.A	DP900X02NPW40	979	783	96.2	3749	59.211	3.250
	3600	L5810/11	P.O.A	P.O.A	P.O.A	DP900X02NPW40L5810	962	770	96.8	4631	65.57	3.375
	1800	L5810/11	P.O.A	P.O.A	P.O.A	DP900X04NPW40	1010	808	96.5	7166	70.444	5.125
1000	3600	L5010/11	P.O.A	P.O.A	P.O.A	DP1000X02NPW40	1120	896	96.5	5072	59.211	3.250
	3600	L5810/11	P.O.A	P.O.A	P.O.A	DP1000X02NPW40L5810	1070	856	97.0	5182	65.57	3.375
	1800	L5810/11	P.O.A	P.O.A	P.O.A	DP1000X04NPW40	1150	920	96.5	7718	70.444	5.125
1100	3600	L5810/11	P.O.A	P.O.A	P.O.A	DP1100X02NPW40	1160	928	97.0	6395	65.57	3.375
	1800	L5810/11	P.O.A	P.O.A	P.O.A	DP1100X04NPW40	1220	976	96.5	7718	70.444	5.125
1250	3600	L5810/11	P.O.A	P.O.A	P.O.A	DP1250X02NPW40	1310	1048	97.0	6615	65.57	3.375

Flange: Replace 'DP' with 'CP' for C Flange
Replace 'DP' with 'DD' for D Flange

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

W40 NEMA Premium Motors
ODP

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V, 575V
- Cast Iron Frames
- Cast Iron endshields and terminal box
- Degree of protection:
  - ODP (IP23)
  - WPII (IP24)
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 364/5T, all 2 pole motors
- 4140 for 404/5T shaft upwards in 4 and 6 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
- NEMA design “B”
- Service Factor: 1.15
- Continuous Duty (S1)
- 104°F (40°C) ambient temperature
- Paint Plan: 203A
- Color: RAL 5009 (Blue)
- Paint: Synthetic Enamel alkyd resin base
- Stainless steel nameplate with laser etching
- Cooling system with finned rotor
- Regreasable bearings

Frames 254T to 447/9T:
Safe Area
Option for Frames 5010/11 and up:
Class I, Div 2, Groups A,B,C & D
Class I, Zone 2, IIC

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
254T - 404/5T < 150HP	All	4:01	10:1	Any
404/5T - 444/5T ≥ 150HP	All	2:01		
5010/11 - L6808/09	All	10:01		
See page 7.6 for details				

Optional Features

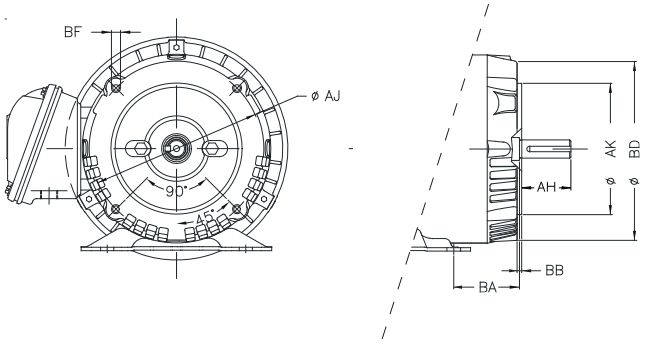
- 50 Hz
- Special voltages
- NEMA C & D flanges
- Specially designed shaft
- Second shaft end
- Thermistors, Thermostats or RTD’s (PT100)
- Auxiliary terminal box
- Roller bearings
- Shaft grounding (Aegis or WEG)
- IEC metric frames (on request) for frames 160M to 280S/M
- F2 and F3 mount
- Drip cover
- UL Listed fire pump duty
- No feet

W01 Rolled Steel NEMA Premium Motors

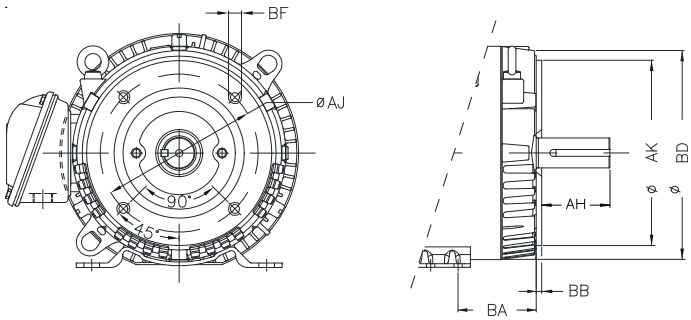
ODP - Mechanical Data

"C" Flange Dimensions							
Frame	BA	Flange					
		AJ	AK	BB	BD	BF	AH
143/5TC	2.750	5.874	4.500	0.157	6.028	UNC 3/8"x16	2.129
182/4TC	3.500	7.250	8.500	0.250	8.858	UNC 1/2"x13	2.620
213/5TC	4.309				9.401		3.129
254/6TC	4.750				11.084		3.750

Frame 143/5T



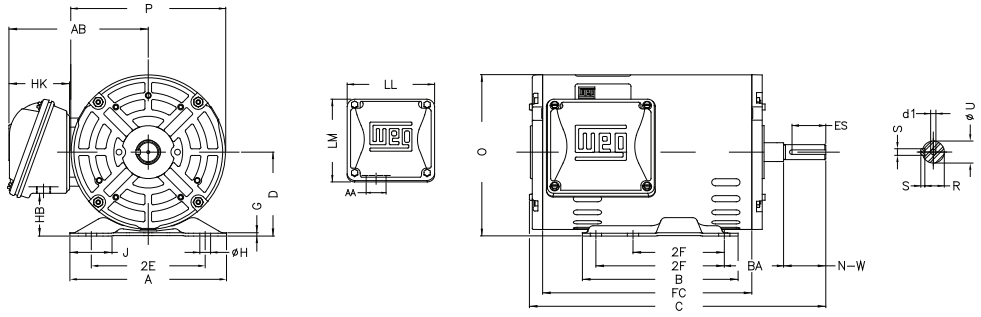
Frames 182/4T up to 254/6T



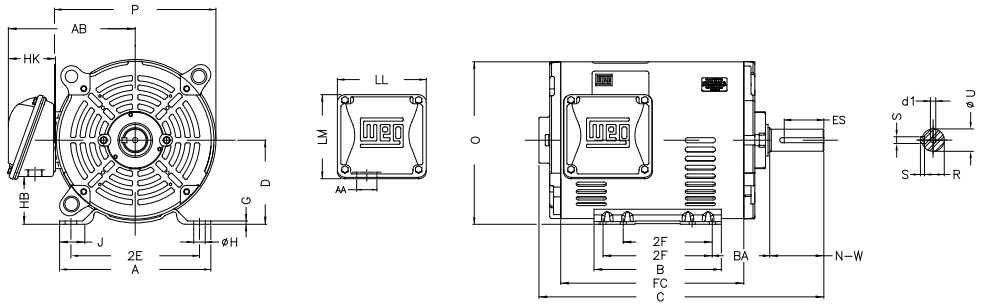
W01 Rolled Steel NEMA Premium Motors

ODP - Mechanical Data

Frame 143/5T



Frames 182/4T up to 254/6T



NEMA FRAME	MOUNTING					AB	D	HB	HK	Hole H	J	LL	LM	O	P	SHAFT END						BEARINGS	
	2E	2F	A	B	BA											d1	ES	N-W	R	S	U	D.E.	N.D.E.
143/5T	5.500	4.000/5.000	6.535	6.496	2.250	5.873	3.500	1.784	2.629	0.343	1.725	4.563	4.090	6.723	6.456	A 3.15	1.417	2.250	0.766	0.187	0.875	6205 ZZ	6203 ZZ
182/4T	7.500	4.500/5.500	8.661	6.299	2.750	6.696	4.500	2.784		0.406	1.299			8.557	8.114	A 4	1.969	2.750	0.984	0.250	1.125	6206 ZZ	6205 ZZ
213/5T	8.500	5.500/7.000	9.449	7.953	3.500	7.973	5.250	2.982	3.022		1.575	5.551	5.250	10.144	9.846		2.480	3.380	1.203	0.313	1.375	6208 ZZ	6206 ZZ
254/6T	10.000	8.252/10.000	11.417	11.417	4.250	9.448	6.250	3.631	3.645	0.530	1.693	6.299	6.017	12.010	11.558		2.756	4.000	1.406	0.375	1.625	6309 Z-C3	6208 Z-C3

NEMA FRAME	OUTPUT		POLES	C	FC
	HP	kW			
143/5T	1	0.75	2	11.181	7.480
			4		
			6		
	1.5	1.1	2		
			4	12.362	8.661
182/4T			6	13.976	7.874
143/5T	2	1.5	2	11.969	8.268
			4	12.362	
182/4T			6	14.764	8.661
143/5T	3	2.2	2	12.362	
182/4T			4	15.157	9.055
213/5T			6	16.575	10.236
182/4T	5	3.7	2	14.764	8.661
			4	16.339	10.236
213/5T			6	16.969	10.630
182/4T	7.5	5.5	2	15.157	9.055
213/5T			4	16.575	10.236
254/6T			6	20.472	12.992
213/5T	10	7.5	2	16.969	10.630
			4	17.756	11.417
254/6T			6	20.472	12.992
213/5T	15	11	2	17.756	11.417
254/6T			4	20.472	12.992
	20	15	2		
			4		
	25	18.5	2		

W01 Rolled Steel NEMA Premium Motors

ODP - Purchasing & Electrical Data

Rated Output		NEMA Frame	List Price	List Price with 'C' 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	$326	$417	DP000X02NPW01	1.38	1.10	80.0	25.4	11.181	0.875
	1800	143/5T	$328	$419	DP000X04NPW01	1.51	1.21	85.5	34.4	11.181	0.875
	1200	143/5T	$430	$521	DP000X06NPW01	1.65	1.32	82.5	35.3	11.181	0.875
1.5	3600	143/5T	$367	$457	DP001X02NPW01	1.85	1.48	84.0	29.3	11.181	0.875
	1800	143/5T	$367	$457	DP001X04NPW01	2.07	1.66	86.5	41.9	12.362	0.875
	1200	182/4T	$503	$616	DP001X06NPW01	2.25	1.80	86.5	56.0	13.976	1.125
2	3600	143/5T	$394	$485	DP002X02NPW01	2.42	1.94	85.5	36.8	11.969	0.875
	1800	143/5T	$380	$471	DP002X04NPW01	2.69	2.15	86.5	39.0	12.362	0.875
	1200	182/4T	$568	$682	DP002X06NPW01	2.95	2.36	87.5	66.1	14.764	1.125
3	3600	143/5T	$471	$562	DP003X02NPW01	3.59	2.87	85.5	39.9	12.362	0.875
	1800	182/4T	$419	$532	DP003X04NPW01	3.86	3.09	89.5	65.9	15.157	1.125
	1200	213/5T	$786	$922	DP003X06NPW01	4.16	3.33	88.5	98.3	16.575	1.375
5	3600	182/4T	$573	$686	DP005X02NPW01	6.10	4.88	86.5	58.7	14.764	1.125
	1800	182/4T	$539	$652	DP005X04NPW01	6.33	5.06	89.5	79.8	16.339	1.125
	1200	213/5T	$985	$1,121	DP005X06NPW01	6.74	5.39	89.5	118	16.969	1.375
7.5	3600	182/4T	$740	$854	DP007X02NPW01	8.67	6.94	88.5	69.9	15.157	1.125
	1800	213/5T	$725	$860	DP007X04NPW01	9.25	7.40	91.0	116	16.575	1.375
	1200	254/6T	$1,331	$1,535	DP007X06NPW01	10.2	8.16	90.2	187	20.472	1.625
10	3600	213/5T	$962	$1,098	DP010X02NPW01	12.0	9.60	89.5	117	16.969	1.375
	1800	213/5T	$883	$1,019	DP010X04NPW01	12.4	9.92	91.7	137	17.756	1.375
	1200	254/6T	$1,589	$1,793	DP010X06NPW01	13.9	11.1	91.7	209	20.472	1.625
15	3600	213/5T	$1,288	$1,424	DP015X02NPW01	17.2	13.8	90.2	131	17.756	1.375
	1800	254/6T	$1,195	$1,399	DP015X04NPW01	18.6	14.9	93.0	175	20.472	1.625
20	3600	254/6T	$1,485	$1,689	DP020X02NPW01	23.8	19.0	91.0	151	20.472	1.625
	1800	254/6T	$1,533	$1,737	DP020X04NPW01	25.0	20.0	93.0	198	20.472	1.625
25	3600	254/6T	$1,805	$2,008	DP025X02NPW01	29.1	23.3	91.7	174	20.472	1.625

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

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V							50%	75%	100%	50%	75%	100%
1	0.75	3510	143/5T	2.76	1.38	1.10	8.3	210%	330%	22	25.4	1.15	74.0	78.5	80.0	0.66	0.78	0.85
		1760	143/5T	3.02	1.51	1.21	8.0	290%	360%	22	34.4	1.15	81.5	84.0	85.5	0.51	0.65	0.73
		1150	143/5T	3.30	1.65	1.32	6.1	250%	300%	24	35.3	1.15	78.5	81.5	82.5	0.47	0.60	0.69
1.5	1.1	3510	143/5T	3.70	1.85	1.48	8.6	210%	330%	19	29.3	1.15	81.5	84.0	84.0	0.73	0.83	0.89
		1760	143/5T	4.14	2.07	1.66	8.7	280%	330%	15	41.9	1.15	84.0	86.5	86.5	0.56	0.69	0.77
		1165	182/4T	4.50	2.25	1.80	6.5	200%	310%	46	56.0	1.15	84.0	85.5	86.5	0.51	0.63	0.71
2	1.5	3510	143/5T	4.84	2.42	1.94	8.9	220%	330%	14	36.8	1.15	84.0	85.5	85.5	0.77	0.86	0.91
		1740	143/5T	5.38	2.69	2.15	7.7	260%	320%	17	39.0	1.15	85.5	86.5	86.5	0.61	0.74	0.81
		1165	182/4T	5.90	2.95	2.36	6.6	200%	300%	33	66.1	1.15	85.5	86.5	87.5	0.53	0.66	0.73
3	2.2	3480	143/5T	7.18	3.59	2.87	8.0	230%	300%	9	39.9	1.15	84.0	85.5	85.5	0.76	0.86	0.90
		1765	182/4T	7.72	3.86	3.09	8.4	220%	330%	15	65.9	1.15	87.5	88.5	89.5	0.60	0.73	0.80
		1175	213/5T	8.32	4.16	3.33	5.9	210%	260%	39	98.3	1.15	86.5	87.5	88.5	0.56	0.68	0.75
5	3.7	3510	182/4T	12.2	6.10	4.88	7.6	190%	300%	12	58.7	1.15	85.5	86.5	86.5	0.73	0.83	0.88
		1760	182/4T	12.7	6.33	5.06	7.2	200%	310%	12	79.8	1.15	88.5	88.5	89.5	0.63	0.76	0.82
		1175	213/5T	13.5	6.74	5.39	5.9	220%	250%	29	118	1.15	88.5	89.5	89.5	0.58	0.70	0.77
7.5	5.5	3500	182/4T	17.3	8.67	6.94	7.4	180%	290%	10	69.9	1.15	88.5	88.5	88.5	0.76	0.85	0.90
		1770	213/5T	18.5	9.25	7.40	7.3	240%	320%	13	116	1.15	89.5	90.2	91.0	0.65	0.77	0.82
		1175	254/6T	20.4	10.2	8.16	5.1	200%	230%	37	187	1.15	88.5	90.2	90.2	0.56	0.68	0.75
10	7.5	3535	213/5T	24.0	12.0	9.60	6.8	200%	280%	11	117	1.15	88.5	89.5	89.5	0.74	0.84	0.88
		1770	213/5T	24.8	12.4	9.92	7.0	250%	350%	14	137	1.15	90.2	91.0	91.7	0.64	0.77	0.83
		1180	254/6T	27.8	13.9	11.1	5.3	210%	230%	34	209	1.15	91.0	91.7	91.7	0.56	0.68	0.74
15	11	3535	213/5T	34.4	17.2	13.8	6.9	210%	280%	8	131	1.15	90.2	90.2	90.2	0.77	0.86	0.89
		1775	254/6T	37.2	18.6	14.9	6.7	240%	300%	17	175	1.15	91.7	92.4	93.0	0.62	0.73	0.80
20	15	3525	254/6T	47.6	23.8	19.0	6.0	180%	240%	13	151	1.15	90.2	91.0	91.0	0.76	0.83	0.87
		1770	254/6T	50.0	25.0	20.0	6.3	240%	290%	15	198	1.15	92.4	92.4	93.0	0.63	0.74	0.81
25	18.5	3530	254/6T	58.2	29.1	23.3	6.3	180%	290%	9	174	1.15	91.0	91.7	91.7	0.73	0.83	0.87

W01 Rolled Steel NEMA Premium Motors
ODP

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V, 575V
- Open Drip Proof - ODP (IP21)
- Die cast aluminum squirrel cage rotor
- Bearings:
  - ZZ / Normal up to frame 213/5T
  - Z / C3 for frame 254/6T
- 1045 heat treated and stress relieved carbon steel shaft
- 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
- Dip and Bake Insulation system
- NEMA design “B”
- 1.15 Service Factor
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207N - Frame 143/5T
  - 207A - Frame 182/4T & 213/5T
  - 203A - Frame 254/6T
- Color: Munsell N1 - Flat Black
- All frames have dual mounting

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5T - 254/6T	2 Pole	3:1	1000:1	Any
	4 Pole	5:1		
See page 7.6 for details				

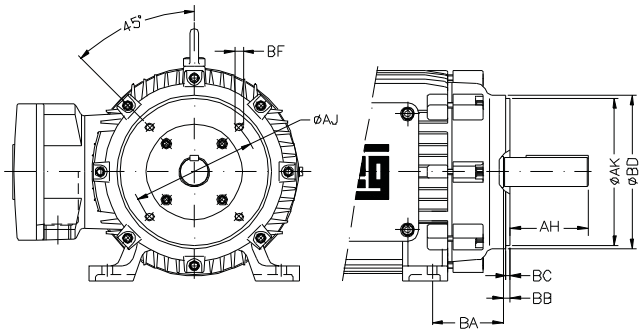
Optional Features

- 50Hz
- Special voltages
- Special shafts
- Thermostats, Thermistors, RTD’s (PT100)
- Drip cover (canopy) for shaft down applications
- NEMA C flange for all ratings
- Special paint
- Shaft grounding (Aegis or WEG)
- UL Listed fire pump duty
- No feet

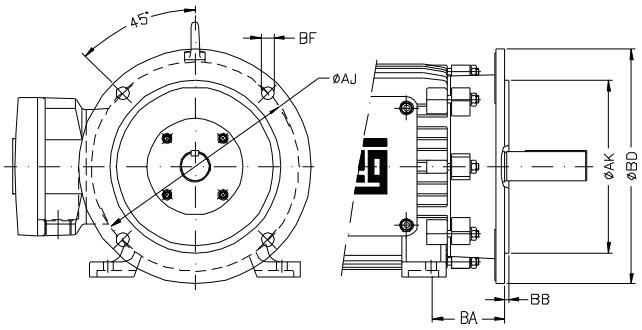
Explosion Proof NEMA Premium Motors

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									
182/4TC	2.750	7.250	8.500	8.875		UNC 0.5"x13	0.250		2,625
184TC									
213/5TC	3.500							0.250	3,125
215TC									
L215TC									
254TC	4.250								3,750
256TC									
284TC	4.750	9.000	10.500	11.031					4,375
284TSC									3,000
286TC									4,375
286TSC									3,000
324TC	5.250	11.000	12.500	13.583		UNC 5/8"x11			5,000
324TSC									3,500
326TC									5,000
326TSC									3,500
364/5TC	5.875			15.562	8				5,625
364/5TSC									3,500
404/5TC	6.625								7,000
404/5TSC									4,000
444/5TC	7.500	14.000	16.000	17.913					8,250
444/5TSC									4,500
447TC									8,250
447TSC									4,500
449TC									8,250
449TSC									4,500
504/5TC	8.500	14.500	16.500						10,375
504/5TSC									4,500
586/7TC	10.000								
586/7TSC	10.000								4,500

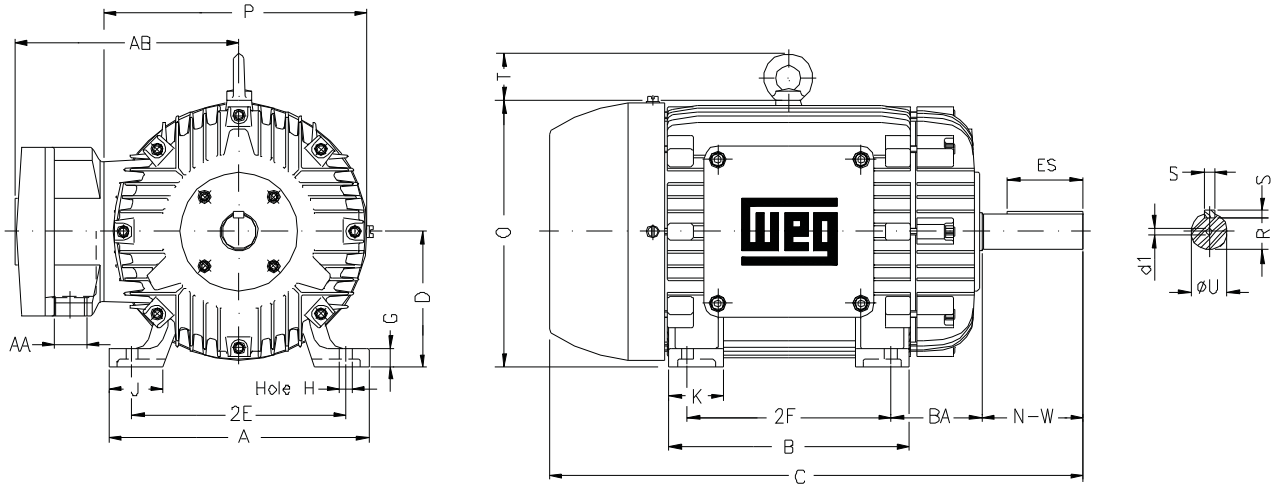


"D" FLANGE DIMENSIONS								
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	AH
					NUMBER	TAP SIZE		
143/5TD	2.250	10.000	9.000	11.000	4	0.551	0.203	2.125
145TD								
182/4TD	2.750							2.625
184TD								
213/5TD	3.500							3.125
215TD								
L215TD								
254TD	4.250	12.500	11.000	14.000		0.828		3.750
256TD								
284TD	4.750							4.375
284TSD								3.000
286TD								4.375
286TSD								3.000
324TD	5.250	16.000	14.000	18.000				5.000
324TSD								3.500
326TD								5.000
326TSD								3.500
364/5TD	5.875							5.625
364/5TSD								3.500
404/5TD	6.625	20.000	18.000	21.656	8			7.000
404/5TSD								4.000
444/5TD	7.500							8.250
444/5TSD								4.500
447TD								8.250
447TSD								4.500
449TD								8.250
449TSD								4.500
504/5TD	8.500			24.803				10.375
504/5TSD								4.500
586/7TD	10.000	30.000	28.000	32.000				11.375
586/7TSD								4.500



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"	A4	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	1.772	0.250	0.984	1.969	2.750	1.125	8.240			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		0.313	1.203	2.480	3.375	1.375	9.252	NPT 1"		6308-2RS	6207-2RS
215T		7.000																			NPT 1"		6308-2RS	6207-2RS
L215T		7.000/8.171				10.088	20.631														NPT 1"		6308-2RS	6207-2RS
254T	10.000	8.252	0.531	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	NPT 1.5"		6309-C3	6309-C3
256T		10.000				11.732	24.923									1.406							6309-C3	6309-C3
284T	11.000	9.500		4.750	13.780	11.575	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			6311-C3	6311-C3
284TS							25.033								0.375	1.406	2.480	3.250	1.625				6311-C3	6311-C3
286T		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	2.480	3.250	1.625				6311-C3	6311-C3
324T	12.500	10.500	0.657	5.250	15.157		29.602	8.000	1.307	3.228	3.346	15.992	15.697	2.795	0.500	1.844	3.937	5.250	2.125	12.961	NPT 2"		6312-C3	6312-C3
324TS							28.102									1.594	2.756	3.750	1.875				6312-C3	6312-C3
326T		12.000				14.567	31.106									1.844	3.937	5.250	2.125				6312-C3	6312-C3
326TS							29.606									1.594	2.756	3.750	1.875				6312-C3	6312-C3
364/5T	14.000	11.250/12.250		5.875	17.165	15.394	33.701	9.000	1.480	3.150	4.134	18.898	18.583		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	1.968	3.748	1.875				6314-C3	6314-C3
404/5T	16.000	12.250/13.752	0.807	6.625	19.921	17.520	38.074	10.000	1.812	3.937	5.433	19.843			0.750	2.449	5.512	7.250	2.875			UNC 0.75"	6217-C3	6314-C3
404/5TS							35.074								0.500	1.842	2.756	4.250	2.125				6314-C3	6314-C3
444/5T	18.000	14.500/16.500		7.500	21.929	20.079	43.797	11.000	1.630		5.591	23.622	24.016	3.543	0.875	2.880	7.087	8.500	3.375	21.732	2xNPT 3"		6219-C3	6316-C3
444/5TS							40.047								0.625	2.021	3.000	4.750	2.375				6314-C3	6314-C3
447T		20.000				23.640	47.339								0.875	2.880	7.087	8.500	3.375	20.984			6319-C3	6316-C3
447TS							43.589								0.625	2.021	3.000	4.750	2.375				6314-C3	6314-C3
449T		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	3.000	4.750	2.375				6314-C3	6314-C3
504/5T	20.000	16.000/18.000	1,250	8.500	24.724	21.969	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	3.000	4.750	2.375				6316-C3	6316-C3
586/7T	23.000	22.000/25.000	1,181	10.000	29.528	29.921	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	3.000	4.750	2.375			UNC 0.75"	6314-C3	6314-C3

Explosion Proof NEMA Premium Motors

TEFC - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	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
		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
250	185	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
		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
300	220	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
		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
350	260	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
		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
400	300	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
450	330	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 - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	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%
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
125	90	3570	444/5TS	264	132	106	6.6	200%	250%	22	1940	86	1.15	93.0	94.5	95.0	0.83	0.89	0.90
		1785	444/5T	284	142	114	6.4	200%	220%	18	2026	76	1.15	95.0	95.4	95.4	0.76	0.83	0.86
		1185	444/5T	300	150	120	7.4	230%	240%	41	2293	70	1.15	94.5	95.0	95.0	0.67	0.76	0.82
		890	447T	308	154	123	6.1	170%	200%	18	2337	66	1.15	94.5	95.0	94.5	0.66	0.76	0.80
		890	504/5T	308	154	123	6.1	170%	200%	18	2337	66	1.15	94.5	95.0	94.5	0.66	0.76	0.80

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
	900	504/5T	$37,478	$39,521	$39,917	HX150X08NP	179	143	94.5	2646	49.445	3.625
200	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
	900	586/7T	$77,576	P.O.A	P.O.A	HX350X08NP	439	351	95.4	4894	61.389	3.875
400	1800	586/7T	$64,197	P.O.A	P.O.A	HX400X04NP	460	368	96.2	4365	61.389	3.875
	1200	586/7T	$84,943	P.O.A	P.O.A	HX400X06NP	479	383	95.8	4982	61.389	3.875
450	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 - 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
	900	182/4T	$1,522	$1,851	$1,870	HX000X08NPW21X	2.30	1.84	78.5	112	15.862	1.125
1.5	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
	1200	182/4T	$1,190	$1,520	$1,535	HX001X06NPW21X	2.33	1.86	87.5	1175	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
2	3600	143/5T	$947	$1,188	$1,200	HX002X02NPW21X	2.69	2.15	85.5	66.1	13.752	0.875
	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	1287	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
	900	213/5T	$2,269	$2,664	$2,691	HX003X08NPW21X	4.44	3.55	87.0	201	19.450	1.375
5	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
	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
7.5	3600	213/5T	$1,588	$1,983	$2,003	HX007X02NPW21X	8.98	7.18	89.5	190	19.450	1.375
	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
	900	284T	$4,269	$4,906	$4,955	HX010X08NPW21X	13.3	10.6	91.0	467	26.407	1.875
15	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
	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
20	3600	256T	$2,805	$3,394	$3,428	HX020X02NPW21X	23.1	18.5	91.7	357	24.923	1.625
	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
25	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
	900	326T	$6,980	$7,733	$7,810	HX025X08NPW21X	35.4	28.3	92.4	672	31.106	2.125
30	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
	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
40	3600	324TS	$5,354	$6,107	$6,168	HX040X02NPW21X	45.8	36.6	93.6	639	28.102	1.875
	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
50	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
	900	404/5T	$15,609	$16,814	$16,982	HX050X08NP	68.0	54.4	93.6	1257	38.074	2.875
60	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
	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
75	3600	364/5TS	$12,562	$13,766	$13,904	HX075X02NP	82.4	65.9	94.1	1025	31.575	1.875
	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
100	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
	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

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)
- 104ºF (40ºC) 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

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				

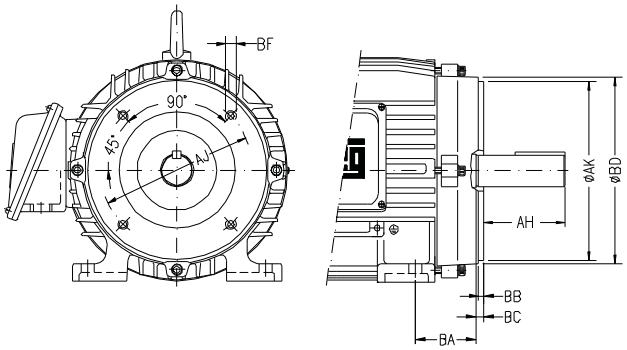
Optional Features

- 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

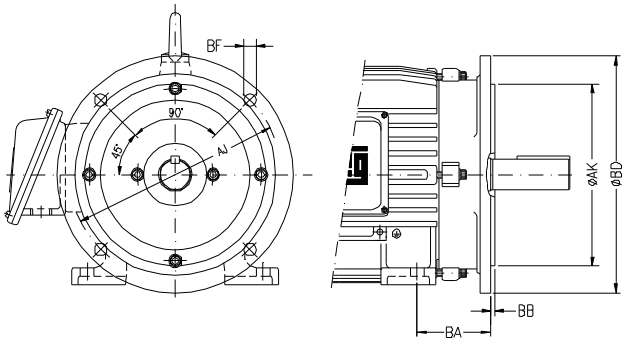
W22 IEEE 841-2009 Motors

TEFC - Severe Duty - 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
182/4TC	2.750	7.250	8.500	8.875		UNC 1/2"x13	0.250	0.250	2.625
213/5TC	3.500								3.125
254/6TC	4.250								3.750
284/6TC	4.750	9.000	10.500	11.031					4.375
284/6TSC									3.000
324/6TC	5.250	11.000	12.500	13.583		UNC 5/8"x11			5.000
324/6TSC									3.500
364/5TC	5.875			15.551	8				5.625
364/5TSC									3.500
404/5TC	6.625								7.000
404/5TSC									4.000
444/5TC	7.500	14.000	16.000	17.913					8.250
444/5TSC									4.500
445/7TC									8.250
445/7TSC									4.500
447/9TC									8.250
447/9TSC									4.500
504/5TC	8.500	14.500	16.500						10.375
504/5TSC									4.500
586/7TC	10.000								11.375
586/7TSC									4.500
588/9TC									11.375
588/9TSC									4.500



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
143/5TD	2.250	10.000	9.000	11.000	4	0.562	0.203
182/4TD	2.750						
213/5TD	3.500						
254/6TD	4.250	12.500	11.000	14.000		0.828	
284/6TD	4.750						
284/6TSD							
324/6TD	5.250	16.000	14.000	18.000			
324/6TSD							
364/5TD	5.875			17.716			
364/5TSD							
404/5TD	6.625	20.000	18.000	22.000	8		
404/5TSD							
444/5TD	7.500			21.653			
444/5TSD							
445/7TD							
445/7TSD							
447/9TD							
447/9TSD							
504/5TD	8.500	22.000	18.000	24.803			0.250
504/5TSD							
586/7TD	10.000	30.000	28.000	32.000			
586/7TSD							
588/9TD							
588/9TSD							



W22 IEEE 841-2009 Motors

TEFC - Severe Duty - Mechanical Data

NEMA Frames	MOUNTING				A	B	C	D	G	J	O	K	P	T	KEYWAY			SHAFT EXTENSION	
	2E	2F	H	BA											S	R	ES	N-W	U
143/5T	5.500	5.000	0.344	2.250	6.457	6.142	13.346	3.500	0.354	1.437	7.122	-	7.047	-	0.187	0.765	1.575	2.250	0.875
182/4T	7.500	5.500	0.406	2.750	8.661	6.969	15.860	4.500	0.394	1.594	9.343		8.740	1.772	0.250	0.984	1.969	2.750	1.125
213/5T	8.500	7.000		3.500	9.764	8.858	19.517	5.250	0.827	1.988	10.841	2.165	10.669		0.313	1.203	2.480	3.375	1.375
254/6T	10.000	10.000	0.531	4.250	12.126	11.732	24.945	6.250		2.539	12.598	2.559	12.953	2.087	0.375	1.406	2.756	4.000	1.625
284/6TS	11.000	11.000		4.750	13.780	13.071	26.557	7.000	1.023	3.110	14.067	2.874	14.173		0.375	1.406	2.480	3.250	1.625
284/6T							27.929								0.500	1.594	3.149	4.622	1.875
324/6TS	12.500	12.000	0.657	5.250	15.157	14.567	29.616	8.000	1.300	3.189	15.953	3.189	15.827	2.441		1.594	2.756	3.750	1.875
324/6T							31.116									1.844	3.937	5.250	2.125
364/5TS	14.016	11.260 / 12.244	0.660	5.875	17.165	16.220	32.276	9.000	1.480	3.150	17.957	4.921	17.914	-		1.591	1.968	3.748	1.875
364/5T							34.251								0.625	2.019	4.330	5.874	2.375
404/5TS	15.984	12.244 / 13.740	0.810	6.625	19.921	18.386	36.732	10.000	1.811	3.937	19.566	5.669	19.134		0.500	1.842	2.756	4.250	2.125
404/5T							39.730								0.750	2.449	5.512	7.250	2.875
444/5TS	18.000	14.500 / 16.500		7.500	21.929	20.315	41.200	11.000	1.630		22.795	5.866	23.583	4.620	0.625	2.021	3.000	4.750	2.375
444/5T							44.950								0.875	2.880	7.087	8.500	3.375
445/7TS		16.500 / 20.000				23.897	44.951		1.654						0.625	2.021	3.000	4.750	2.375
445/7T							48.701								0.875	2.880	7.087	8.500	3.375
447/9TS		20.000 / 25.000				31.535	52.588		1.630	4.331		6.692			0.625	2.021	3.000	4.750	2.375
447/9T							56.338								0.875	2.880	7.087	8.500	3.375
L447/9TS		20.000 / 25.000					53.431			3.937	23.874	8.780	25.866		0.625	2.021	3.000	4.750	2.375
L447/9T							57.181								0.875	2.880	7.087	8.500	3.375
504/5TS	20.000	16.000 / 18.000	1.250	8.500	24.724	24.449	48.215	12.500	2.146	4.724	25.425	7.228		4.880	0.625	2.021	3.000	4.750	2.375
504/5T							54.095								0.875	3.134	8.661	10.630	3.625
586/7TS	23.000	22.000 / 25.000	1.181	10.000	29.528	29.921	55.027	14.500	2.492	5.512	28.985	9.055	28.977	5.590	0.625	2.021	3.000	4.750	2.375
586/7T							61.902								1.000	3.312	8.661	11.625	3.875
588/9TS		28.000 / 32.000				37.980	62.506					12.795		8.464	0.625	2.021	3.000	4.750	2.375
588/9T							69.381								1.000	3.312	8.661	11.625	3.875

NEMA Frames	TERMINAL BOX									d1	BEARINGS	
	AB	HB	HF	HG	HH	HK	LL	LM	AA		D.E.	N.D.E
143/5T	6.181	1.728	3.500	-	4.750	2.638	4.527	4.094	NPT3/4"	A 4	6205	6204
182/4T	7.559	2.236	4.500		5.500	3.110	5.512	5.236	NPT1"		6207	6206
213/5T	8.583	3.006	5.250		7.000						6308	6207
254/6T	10.394	3.061	6.565		9.250	3.937	7.795	7.402	NPT1 1/2"		6309 C3	6209 C3
284/6TS	10.984	3.535	7.000		10.250						6311 C3	6211 C3
284/6T	10.984	3.535	7.000									
324/6TS	12.480	4.811	8.708		11.250	4.645	8.976	8.543	NPT 2"		6312 C3	6212 C3
324/6T	12.480	4.811	8.708									
364/5TS	16.378	4.055	-		12.362	6.378	9.646	10.119	NPT 3"		6314 C3	6314 C3
364/5T												
404/5TS		5.040			14.213						6316 C3	
404/5T												
444/5TS	18.386	5.394			15.748	5.787	11.811	11.890	2xNPT 3"		6314 C3	
444/5T											6319 C3	6316 C3
445/7TS	20.670	12.598	20.724	26.850	11.803	6.968	14.646	15.040		UNC 3/4"-10	6314 C3	6314 C3
445/7T											6319 C3	6316 C3
447/9TS											6314 C3	6314 C3
447/9T											6322 C3	6319 C3
L447/9TS	23.071	11.417	20.551	28.236	11.500	8.464	15.906	17.244			6314 C3	6314 C3
L447/9T											6322 C3	6319 C3
504/5TS	20.670	15.275	24.291	29.409	10.394	6.968	14.646	15.040			6314 C3	6314 C3
504/5T											6319 C3	6316 C3
586/7TS	23.977	17.322	26.182	33.346	13.386	8.464	15.906	17.244			6314 C3	6314 C3
586/7T										UNC 7/8"-9	6322 C3	6319 C3
588/9TS	27.600	6.063				12.519 (side mounted) / 13.977(top mounted)	17.441	28.740		UNC 3/4"-10	6314 C3	6314 C3
588/9T										UNC 7/8"-9	6322 C3	6319 C3

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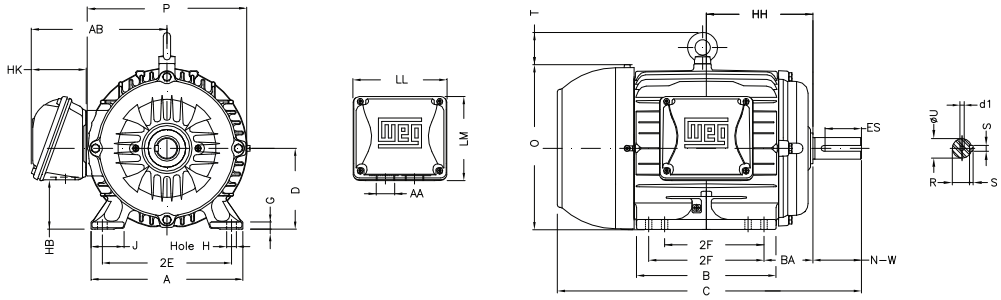
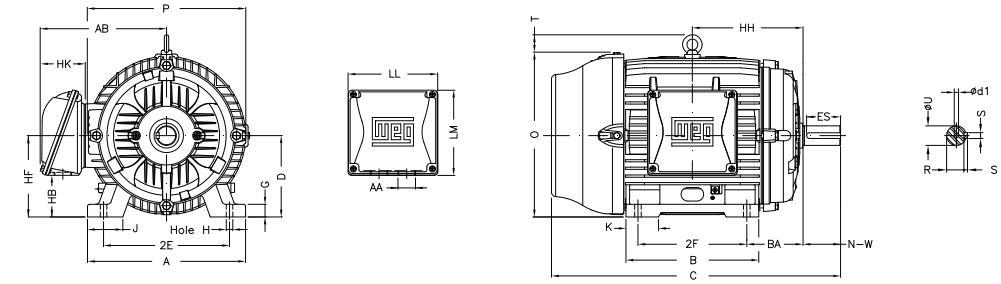
TEFC - Severe Duty - Mechanical Data

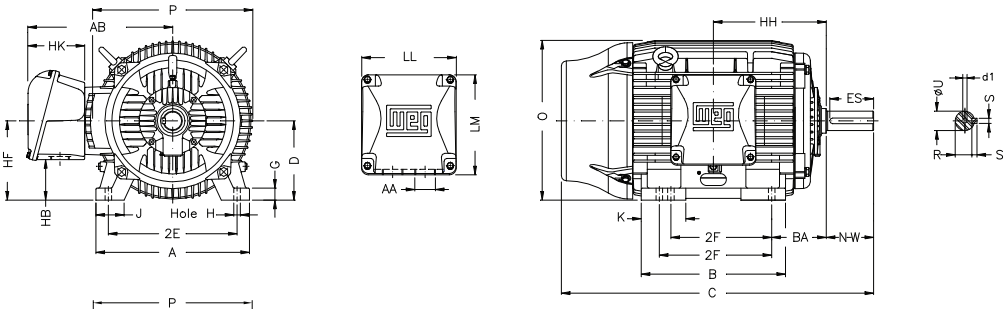
Frames 143T to 184T



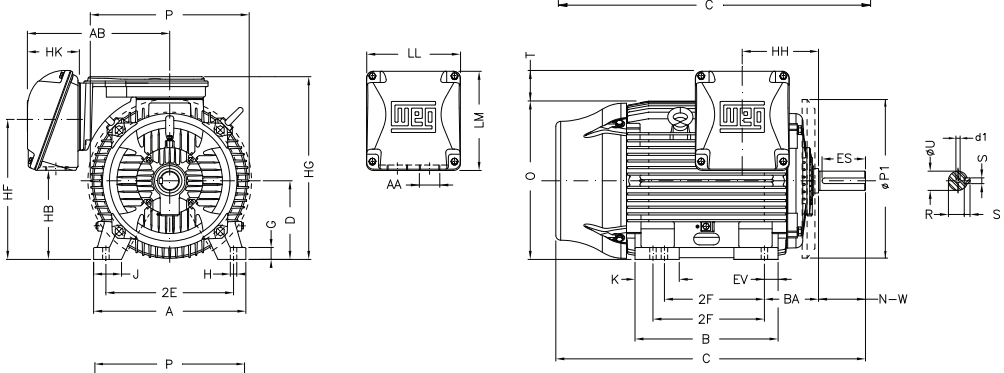
Frames 213T to 326T



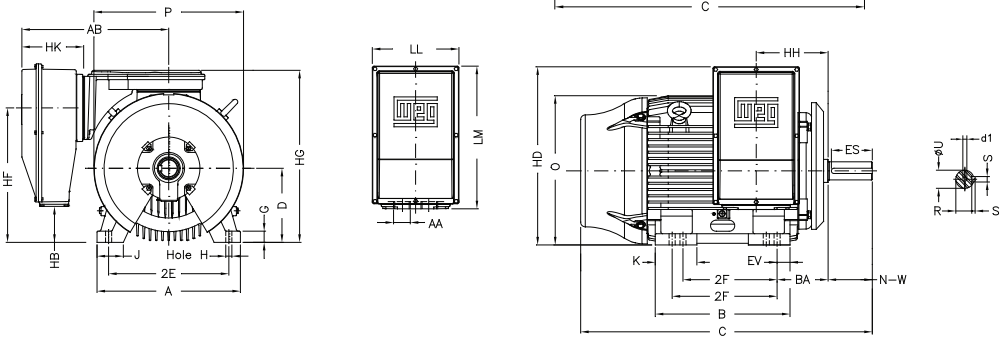
Frames 364 to 444/5T



Frames 445/7T to 586/7T



Frame 588/9T



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TEFC - Severe Duty - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	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	322	161	129	6.5	180%	240%	22	1709	81	1.15	94.1	95.0	95.0	0.83	0.88	0.90
		1780	444/5T	340	170	136	6.6	200%	250%	27	1676	73	1.15	95.4	95.8	95.8	0.74	0.82	0.85
		1190	445/7T	352	176	141	6.7	240%	290%	20	2042	69	1.15	95.0	95.4	95.8	0.67	0.78	0.82
		1190	504/5T	352	176	141	6.7	230%	250%	29	2249	70	1.15	94.5	95.4	95.8	0.67	0.78	0.82
		890	445/7T	370	185	148	6.0	190%	210%	15	2042	63	1.15	94.5	94.5	94.5	0.64	0.74	0.79
		890	504/5T	360	180	144	5.8	180%	200%	21	2293	66	1.15	94.5	94.5	94.5	0.68	0.77	0.81
200	150	3570	445/7TS	438	219	175	7.2	240%	240%	14	1914	81	1.15	95.0	95.4	95.4	0.86	0.89	0.90
		3575	504/5TS	444	222	178	7.2	200%	270%	17	2168	81	1.15	94.1	95.0	95.4	0.81	0.87	0.89
		1780	445/7T	460	230	184	6.8	240%	250%	16	1899	---	1.15	95.4	96.2	96.2	0.73	0.82	0.85
		1785	504/5T	456	228	182	6.6	220%	220%	22	2273	---	1.15	95.4	96.2	96.2	0.75	0.83	0.86
		1190	445/7T	474	237	190	6.6	230%	240%	15	2247	69	1.15	95.0	95.4	95.8	0.68	0.79	0.83
		1190	504/5T	474	237	190	6.6	220%	230%	21	2459	70	1.15	95.0	95.4	95.8	0.70	0.80	0.83
		895	586/7T	494	247	198	6.3	140%	210%	40	3334	75	1.15	95.0	95.4	95.4	0.65	0.75	0.80
		890	L447/9T	484	242	194	6.1	200%	220%	25	3550	64	1.15	94.6	95.0	95.0	0.70	0.79	0.82
250	185	3570	445/7TS	532	266	213	6.5	230%	220%	18	2159	81	1.15	95.4	95.8	95.8	0.87	0.90	0.91
		3575	504/5TS	538	269	215	7.0	200%	240%	23	2388	81	1.15	95.0	95.8	95.8	0.85	0.89	0.90
		1780	445/7T	562	281	225	6.6	230%	240%	15	2079	73	1.15	95.8	96.2	96.2	0.75	0.83	0.86
		1785	504/5T	554	277	222	6.6	230%	220%	20	2450	75	1.15	95.8	96.2	96.2	0.78	0.85	0.87
		1185	447/9T	584	292	234	6.7	240%	240%	12	2538	---	1.15	95.0	95.4	95.8	0.68	0.79	0.83
		1190	586/7T	598	299	239	6.2	200%	210%	30	3206	77	1.15	95.0	95.4	95.8	0.68	0.77	0.81
		895	586/7T	598	299	239	6.2	140%	210%	40	3649	75	1.15	95.4	95.8	95.8	0.66	0.76	0.81
		890	L447/9T	594	297	238	6.1	200%	220%	25	3704	64	1.15	95.0	95.4	95.4	0.70	0.79	0.82
300	220	3570	447/9TS	640	320	256	7.0	250%	240%	14	2545	---	1.15	95.4	95.8	95.8	0.86	0.89	0.90
		3580	586/7TS	634	317	254	6.5	150%	220%	35	3382	84	1.15	95.0	95.8	95.8	0.87	0.90	0.91
		1780	447/9T	660	330	264	6.5	230%	230%	16	2381	---	1.15	95.8	96.2	96.2	0.77	0.84	0.87
		1790	586/7T	668	334	267	6.8	230%	230%	19	3080	78	1.15	95.4	96.2	96.2	0.77	0.84	0.86
		1190	586/7T	712	356	285	6.0	200%	200%	30	3495	77	1.15	95.4	95.8	95.8	0.69	0.78	0.81
		1180	L447/9T	696	348	278	6.3	210%	250%	26	3405	77	1.15	95	95.4	95.8	0.69	0.79	0.83
		895	586/7T	712	356	285	6.5	150%	220%	40	4035	75	1.15	95.4	95.8	95.8	0.66	0.77	0.81
350	260	3580	586/7TS	746	373	298	6.6	160%	230%	28	3621	84	1.15	95.4	96.2	96.2	0.86	0.90	0.91
		3578	L447/9TS	748	374	299	6.7	250%	250%	25	3470	88	1.15	95.4	95.4	95.8	0.86	0.9	0.91
		1790	586/7T	788	394	315	6.4	200%	200%	23	2675	78	1.15	95.8	96.2	96.2	0.78	0.85	0.86
		1790	L447/9T	788	394	315	6.9	260%	250%	45	3238	77	1.15	95.8	96.2	96.2	0.76	0.83	0.86
		1190	586/7T	842	421	337	6.3	210%	210%	29	3784	77	1.15	95.4	95.8	95.8	0.67	0.77	0.81
		1190	L447/9T	808	404	323	6.5	220%	240%	21	3574	71	1.15	95.4	95.8	95.8	0.70	0.80	0.84
		895	586/7T*	852	426	341	6.4	160%	230%	34	4309	75	1.00	95.4	95.8	95.8	0.64	0.75	0.80
400	300	3580	586/7TS	860	430	344	6.5	180%	220%	48	3749	84	1.15	95.8	96.2	96.2	0.88	0.90	0.91
		3575	L447/9TS	864	432	346	6.7	220%	250%	25	3158	88	1.15	95.4	95.8	95.8	0.85	0.90	0.91
		1790	586/7T	910	455	364	6.4	200%	220%	19	3455	78	1.15	95.8	96.2	96.2	0.78	0.85	0.86
		1790	L447/9T	910	455	364	7.0	250%	260%	21	3285	79	1.15	95.4	95.8	96.2	0.74	0.82	0.86
		1190	586/7T	966	483	386	6.5	230%	210%	29	4115	77	1.15	95.4	95.8	96.2	0.67	0.77	0.81
		895	588/9T	996	498	398	6.7	150%	240%	25	4851	75	1.00	95.0	95.6	95.7	0.62	0.73	0.79
450	330	3580	586/7TS	946	473	378	6.6	200%	230%	34	3918	84	1.15	95.8	96.2	96.2	0.88	0.90	0.91
		3575	L447/9TS	950	475	380	7.2	240%	260%	26	3268	88	1.15	95.4	95.8	95.8	0.84	0.89	0.91
		1790	586/7T	1002	501	401	6.8	240%	210%	16	3640	78	1.15	95.8	96.2	96.2	0.78	0.85	0.86
		1790	L447/9T	1002	501	401	6.9	260%	250%	22	3396	79	1.15	95.4	96.2	96.2	0.74	0.83	0.86
		1190	586/7T	1064	532	426	6.2	210%	210%	26	4384	77	1.00	95.8	96.2	96.2	0.67	0.77	0.81
500	370	3580	586/7TS	1060	530	424	6.8	220%	240%	39	4086	84	1.15	95.8	96.2	96.2	0.88	0.90	0.91
		1790	586/7T	1110	555	444	6.5	240%	200%	16	3912	78	1.00	95.8	96.2	96.2	0.80	0.85	0.87
		1190	586/7T	1206	603	482	6.5	220%	210%	25	4403	77	1.00	95.8	96.2	96.2	0.66	0.76	0.80
550	400	1190	588/9T	1322	661	529	6.5	220%	230%	30	4734	77	1.00	95.2	96.0	96.1	0.63	0.74	0.79
600	450	3585	588/9TS	1300	650	520	7.4	230%	270%	33	4410	89	1.00	96.0	96.5	96.5	0.84	0.89	0.90
		1790	586/7T	1330	665	532	7.1	220%	250%	16	4335	78	1.00	96.2	96.4	96.5	0.74	0.82	0.86
650	480	3585	588/9TS	1370	685	548	7.1	200%	240%	56	4635	89	1.00	96.1	96.6	96.6	0.86	0.90	0.91
		1790	588/9T	1468	734	587	7.4	250%	270%	22	4395	81	1.00	96.0	96.5	96.6	0.71	0.81	0.85
700	515	1790	588/9T	1576	788	630	7.0	250%	260%	23	4584	81	1.00	96.2	96.5	96.6	0.71	0.81	0.85

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Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	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%
1	0.75	3495	143/5T	2.86	1.43	1.14	8.2	280%	340%	22	36.4	68	1.25	74.0	77.0	78.5	0.69	0.79	0.84
		1760	143/5T	2.82	1.41	1.13	8.4	280%	350%	18	40.8	51	1.25	80.0	84.0	85.5	0.60	0.70	0.78
		1150	143/5T	3.45	1.73	1.38	6.2	300%	300%	28	52.9	49	1.25	77.0	82.0	82.5	0.45	0.57	0.66
		875	182/4T	4.60	2.30	1.84	6.0	300%	350%	22	94.8	50	1.25	74.0	77.0	78.5	0.32	0.42	0.52
1.5	1.1	3490	143/5T	3.82	1.91	1.53	8.9	350%	380%	21	40.8	68	1.25	81.5	84.0	84.0	0.72	0.82	0.86
		1755	143/5T	4.04	2.02	1.62	8.3	250%	340%	14	48.5	51	1.25	82.5	85.5	86.5	0.60	0.70	0.79
		1165	182/4T	4.78	2.39	1.91	8.0	320%	400%	16	70.3	52	1.25	84.0	86.5	87.5	0.45	0.56	0.66
		860	182/4T	5.40	2.70	2.16	5.5	250%	260%	17	111	50	1.25	80.0	82.5	82.5	0.43	0.54	0.62
2	1.5	3480	143/5T	5.12	2.56	2.05	8.9	350%	380%	17	51.8	68	1.25	82.5	85.5	85.5	0.71	0.80	0.86
		1750	143/5T	5.22	2.61	2.09	7.5	240%	300%	11	50.7	51	1.25	84.0	86.5	86.5	0.66	0.78	0.84
		1165	182/4T	6.45	3.23	2.58	7.5	300%	300%	31	87.5	52	1.25	86.5	88.5	88.5	0.46	0.58	0.66
		870	213/5T	6.78	3.39	2.71	7.6	240%	290%	39	149	52	1.25	82.5	84.0	85.5	0.45	0.55	0.65
3	2.2	3510	182/4T	7.26	3.63	2.90	8.3	240%	380%	41	88.2	69	1.25	82.5	86.5	86.5	0.75	0.84	0.88
		1760	182/4T	7.76	3.88	3.10	8.1	230%	340%	23	90.4	56	1.25	86.5	88.5	89.5	0.61	0.73	0.79
		1170	213/5T	8.83	4.42	3.53	7.0	200%	280%	58	121	55	1.25	86.5	88.5	89.5	0.50	0.63	0.70
		865	213/5T	9.12	4.56	3.65	6.8	230%	280%	44	176	52	1.25	84.0	85.5	85.5	0.50	0.63	0.71
5	3.7	3500	182/4T	11.8	5.90	4.72	7.5	230%	350%	25	88.2	69	1.25	86.5	88.5	88.5	0.76	0.85	0.89
		1755	182/4T	12.9	6.45	5.16	7.5	230%	320%	15	94.8	56	1.25	88.5	89.5	89.5	0.62	0.74	0.80
		1160	213/5T	13.7	6.85	5.48	6.6	190%	240%	57	162	55	1.25	88.5	89.5	89.5	0.58	0.70	0.76
		880	254/6T	15.2	7.60	6.08	5.3	190%	250%	44	258	54	1.25	85.5	87.5	87.5	0.49	0.62	0.70
7.5	5.5	3520	213/5T	17.5	8.75	7.00	7.2	210%	300%	27	139	72	1.25	87.5	89.5	89.5	0.75	0.84	0.88
		1765	213/5T	18.0	9.00	7.20	7.1	220%	310%	20	154	58	1.25	89.5	91.0	91.7	0.66	0.77	0.83
		1175	254/6T	19.0	9.50	7.60	6.8	250%	300%	30	262	59	1.25	89.5	90.2	91.0	0.63	0.74	0.80
		880	254/6T	22.2	11.1	8.88	5.3	200%	250%	33	284	54	1.25	85.5	87.5	87.5	0.50	0.63	0.71
10	7.5	3515	213/5T	23.2	11.6	9.28	7.2	210%	290%	24	163	72	1.25	89.5	90.2	90.2	0.79	0.87	0.90
		1760	213/5T	24.8	12.4	9.92	6.4	200%	300%	17	172	58	1.25	90.2	91.7	91.7	0.66	0.77	0.83
		1175	254/6T	25.8	12.9	10.3	6.5	230%	280%	26	289	59	1.25	90.2	91.0	91.0	0.63	0.74	0.80
		880	284/6T	26.8	13.4	10.7	5.6	200%	240%	32	373	54	1.25	89.5	90.2	90.2	0.61	0.72	0.78
15	11	3530	254/6T	34.4	17.2	13.8	6.8	220%	270%	25	236	72	1.25	89.5	91.0	91.0	0.77	0.85	0.88
		1765	254/6T	36.0	18.0	14.4	6.5	230%	270%	17	251	64	1.25	91.0	91.7	92.4	0.68	0.78	0.83
		1175	284/6T	35.8	17.9	14.3	6.6	230%	270%	20	379	59	1.25	91.0	91.7	91.7	0.69	0.80	0.84
		880	284/6T	38.8	19.4	15.5	5.5	200%	230%	25	417	54	1.25	90.2	91.0	90.2	0.62	0.73	0.79
20	15	3520	254/6T	46.4	23.2	18.6	6.1	200%	240%	21	269	72	1.25	91.0	91.7	91.0	0.82	0.87	0.89
		1765	254/6T	48.2	24.1	19.3	6.5	230%	270%	15	291	64	1.25	91.7	92.4	93.0	0.68	0.79	0.84
		1175	284/6T	48.4	24.2	19.4	6.2	230%	260%	16	426	59	1.25	91.0	91.7	91.7	0.70	0.80	0.85
		880	324/6T	56.6	28.3	22.6	5.0	190%	220%	27	452	56	1.25	89.5	91.0	91.0	0.54	0.66	0.73
25	18.5	3535	284/6TS	57.0	28.5	22.8	6.3	200%	250%	17	362	72	1.25	91.0	91.7	91.7	0.82	0.87	0.89
		1765	284/6T	59	29.5	23.6	6.2	240%	270%	24	416	63	1.25	92.4	93	93.6	0.7	0.8	0.84
		1180	324/6T	60.8	30.4	24.3	6.2	210%	260%	26	560	62	1.25	91.7	93.0	93.0	0.65	0.77	0.82
		880	324/6T	71.8	35.9	28.7	5.2	200%	230%	23	509	56	1.25	89.5	91.0	91.0	0.51	0.64	0.71
30	22	3535	284/6TS	67.6	33.8	27.0	6.3	200%	250%	15	392	72	1.25	91.7	91.7	91.7	0.82	0.87	0.89
		1765	284/6T	70.2	35.1	28.1	6.1	240%	240%	20	437	64	1.25	93.0	93.0	93.6	0.70	0.80	0.84
		1180	324/6T	71.6	35.8	28.6	6.2	230%	260%	21	553	62	1.25	91.7	93.0	93.0	0.65	0.77	0.83
		880	364/5T	74.0	37.0	29.6	6.2	170%	240%	20	803	60	1.25	92.4	92.4	92.4	0.63	0.74	0.80
40	30	3555	324/6TS	91.6	45.8	36.6	6.4	230%	240%	22	547	78	1.25	91.7	92.4	92.4	0.82	0.87	0.89
		1775	324/6T	96.4	48.2	38.6	6.2	220%	260%	20	492	66	1.25	93.0	94.1	94.1	0.67	0.78	0.83
		1180	364/5T	93.0	46.5	37.2	6.4	200%	240%	21	833	66	1.25	93.6	93.6	94.1	0.73	0.82	0.86
		880	364/5T	100	50.0	40.0	6.0	170%	230%	18	875	60	1.25	92.4	93.0	92.4	0.66	0.76	0.81
50	37	3550	324/6T	112	56.0	44.8	6.2	220%	230%	23	584	78	1.25	93.0	93.0	93.0	0.83	0.87	0.89
		1775	324/6T	118	59.0	47.2	6.2	230%	270%	15	536	66	1.25	93.0	94.1	94.5	0.66	0.77	0.83
		1180	364/5T	115	57.5	46.0	6.4	200%	240%	18	869	66	1.25	93.6	94.1	94.1	0.74	0.83	0.86
		880	404/5T	120	60.0	48.0	6.8	170%	260%	15	1012	60	1.25	93.0	93.0	93.0	0.68	0.78	0.83
60	45	3560	364/5TS	134	67.0	53.6	6.6	200%	260%	14	825	79	1.25	91.7	93.0	93.6	0.81	0.88	0.90
		1775	364/5T	137	68.5	54.8	6.6	240%	260%	15	869	67	1.25	94.1	94.5	95.0	0.75	0.83	0.87
		1180	404/5T	139	69.5	55.6	6.4	200%	230%	20	1036	68	1.25	94.1	94.5	94.5	0.74	0.82	0.86
		880	404/5T	146	73.0	58.4	6.5	180%	270%	13	1111	60	1.25	93.0	93.0	93.0	0.68	0.78	0.83
75	55	3555	364/5TS	164	82.0	65.6	6.6	200%	260%	10	847	79	1.25	92.4	93.6	93.6	0.83	0.88	0.90
		1775	364/5T	168	84.0	67.2	6.4	240%	260%	14	919	67	1.25	94.5	95.0	95.4	0.73	0.82	0.86
		1180	404/5T	170	85.0	68.0	6.4	200%	230%	17	1089	68	1.25	94.1	94.5	94.5	0.74	0.83	0.86
		890	444/5T	186	93.0	74.4	6.0	180%	210%	18	1444	63	1.25	93.0	93.6	93.6	0.64	0.74	0.79
100	75	3555	404/5TS	220	110	88.0	6.5	200%	240%	14	1045	79	1.25	93.0	94.1	94.1	0.85	0.90	0.91
		1775	404/5T	222	111	88.8	6.5	240%	260%	13	1140	68	1.25	95.0	95.0	95.4	0.77	0.84	0.88
		1185	444/5T	242	121	96.8	6.2	220%	260%	20	1577	69	1.25	94.5	95.0	95.0	0.68	0.78	0.82
		890	444/5T	254	127	102	6.0	190%	220%	15	1599	63	1.25	93.6	94.1	94.1	0.63	0.74	0.79
125	90	3570	444/5TS	268	134	107	6.6	200%	250%	29	1598	81	1.15	93.6	94.5	95.0	0.82	0.87	0.89
		1780	444/5T	278	139	111	6.5	200%	250%	27	1590	73	1.15	95.0	95.4	95.4	0.74	0.82	0.85
		1185	444/5T	286	143	114	6.4	210%	240%	19	1750	69	1.15	95.0	95.4	95.0	0.70	0.79	0.83
		890	445/7T	302	151	121	6.0	180%	210%	17	1887	63	1.15	94.5	94.5	94.5	0.64	0.74	0.79
		890	504/5T	298	149	119	5.8	180%	200%	23	2110	66	1.15	94.5	94.5	94.5	0.66	0.76	0.80

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TEFC - Severe Duty - 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	$20,663	$21,846	$22,065	IE125X02W22IS	134	107	95.0	1598	41.2	2.375
	1800	444/5T	$16,416	$17,599	$17,775	IE125X04W22IS	139	111	95.4	1590	44.95	3.375
	1200	444/5T	$22,265	$23,449	$23,683	IE125X06W22IS	143	114	95.0	1750	44.95	3.375
	900	445/7T	$30,225	$31,408	$31,722	IE125X08W22447TIS	151	121	94.5	1887	48.701	3.375
	900	504/5T	$30,225	$31,739	$32,056	IE125X08W22505TIS	149	119	94.5	2110	54.095	3.625
150	3600	444/5TS	$24,066	$25,249	$25,501	IE150X02W22IS	161	129	95.0	1709	41.2	2.375
	1800	444/5T	$18,829	$20,012	$20,212	IE150X04W22IS	170	136	95.8	1675	44.95	3.375
	1200	445/7T	$25,245	$26,428	$26,692	IE150X06W22447TIS	176	141	95.8	2041	48.701	3.375
	1200	504/5T	$25,245	$26,759	$27,026	IE150X06W22505TIS	176	141	95.8	2249	54.095	3.625
	900	445/7T	$35,438	$36,622	$36,988	IE150X08W22447TIS	185	148	94.5	2041	48.701	3.375
	900	504/5T	$35,438	$36,952	$37,322	IE150X08W22505TIS	180	144	94.5	2293	54.095	3.625
200	3600	445/7TS	$29,612	$30,795	$31,103	IE200X02W22447TSIS	219	175	95.4	1914	44.951	2.375
	3600	504/5TS	$29,612	$31,126	$31,437	IE200X02W22505TSIS	222	178	95.4	2167	48.215	2.375
	1800	444/5T	$22,950	$24,133	$24,374	IE200X04W22445TIS	230	184	96.2	1899	45.157	3.375
	1800	445/7T	$22,950	$24,133	$24,374	IE200X04W22447TIS	230	184	96.2	1899	48.701	3.375
	1800	504/5T	$22,950	$24,464	$24,708	IE200X04W22505TIS	228	182	96.2	2273	54.095	3.625
	1200	445/7T	$31,709	$32,893	$33,221	IE200X06W22447TIS	237	190	95.8	2246	48.701	3.375
	1200	504/5T	$31,709	$33,223	$33,555	IE200X06W22505TIS	237	190	95.8	2458	54.095	3.625
	900	L447/9T	$50,241	$52,505	$53,030	IE200X08W22L449TIS	242	194	95.0	3550	57.181	3.375
	900	586/7T	$60,679	$63,321	$63,955	IE200X08W22587TIS	247	198	95.4	3333	61.902	3.875
250	3600	445/7TS	$31,429	$32,612	$32,939	IE250X02W22447TSIS	266	213	95.8	2158	44.951	2.375
	3600	504/5TS	$31,429	$32,943	$33,272	IE250X02W22505TSIS	269	215	95.8	2388	48.215	2.375
	1800	445/7T	$28,517	$29,700	$29,997	IE250X04W22447TIS	281	225	96.2	2079	48.701	3.375
	1800	504/5T	$28,517	$30,031	$30,331	IE250X04W22505TIS	277	222	96.2	2449	54.095	3.625
	1200	447/9T	$49,685	$51,949	$52,468	IE250X06W22449TIS	292	234	95.8	2537	56.338	3.375
	1200	586/7T	$57,138	$59,741	$60,338	IE250X06W22587TIS	299	239	95.8	3205	61.902	3.875
	900	L447/9T	$55,524	$57,788	$58,366	IE250X08W22L449TIS	297	238	95.4	3704	57.181	3.375
	900	586/7T	$74,359	$77,002	$77,772	IE250X08W22587TIS	299	239	95.8	3649	61.902	3.875
300	3600	447/9TS	$37,891	$40,155	$40,556	IE300X02W22449TSIS	320	256	95.8	2544	52.588	2.375
	1800	447/9T	$37,352	$39,616	$40,012	IE300X04W22449TIS	330	264	96.2	2381	56.338	3.375
	1800	586/7T	$42,707	$45,350	$45,803	IE300X04W22587TIS	334	267	96.2	3080	61.902	3.875
	1200	L447/9T	P.O.A	P.O.A	P.O.A	IE300X06W22L449TIS	348	278	95.8	3405	57.181	3.375
	1200	586/7T	$54,198	$56,840	$57,409	IE300X06W22587TIS	356	285	95.8	3494	61.902	3.875
	900	586/7T	$93,150	$95,793	$96,751	IE300X08W22587TIS	426	341	95.8	4309	61.902	3.875
350	3600	L447/9TS	$49,386	$52,029	$52,549	IE350X02W22L449TSIS	374	299	95.8	3470	57.181	3.375
	3600	586/7TS	P.O.A	P.O.A	P.O.A	IE350X02W22587TSIS	373	298	96.2	3620	55.027	2.375
	1800	L447/9T	$45,971	$48,613	$49,100	IE350X04W22L449TIS	394	315	96.2	2867	57.181	3.375
	1800	586/7T	$56,036	$58,299	$58,882	IE350X04W22587TIS	394	315	96.2	2674	61.902	3.875
	1200	L447/9T	$63,262	$65,905	$66,564	IE350X06W22L449TIS	404	323	95.8	3574	57.181	3.375
	1200	586/7T	$66,246	$68,889	$69,578	IE350X06W22587TIS	421	337	95.8	3783	61.902	3.875
	900	586/7T	$84,297	$88,269	$89,152	IE350X08W22587TIS	426	341	95.8	4308	61.902	3.875
400	3600	L447/9TS	$50,565	$53,208	$53,740	IE400X02W22L449TSIS	432	346	95.8	3158	57.181	3.375
	3600	586/7TS	$58,150	$61,189	$61,801	IE400X02W22587TSIS	430	344	96.2	3748	55.027	2.375
	1800	L447/9T	$50,833	$53,475	$54,010	IE400X04W22L449TIS	455	364	96.2	3285	57.181	3.375
	1800	586/7T	$68,741	$71,384	$72,098	IE400X04W22587TIS	455	364	96.2	3455	61.902	3.875
	1200	586/7T	P.O.A	P.O.A	P.O.A	IE400X06W22587TIS	483	386	96.2	4114	61.902	3.875
	900	588/9T	P.O.A	P.O.A	P.O.A	IE400X08W22589TIS	498	398	95.7	4850	69.381	3.875
450	3600	L447/9TS	P.O.A	P.O.A	P.O.A	IE450X02W22L449TSIS	475	380	95.8	3268	57.181	3.375
	3600	586/7TS	P.O.A	P.O.A	P.O.A	IE450X02W22587TSIS	473	378	96.2	3918	55.027	2.375
	1800	L447/9T	P.O.A	P.O.A	P.O.A	IE450X04W22L449TIS	501	401	96.2	3396	57.181	3.375
	1800	586/7T	P.O.A	P.O.A	P.O.A	IE450X04W22587TIS	501	401	96.2	3640	61.902	3.875
	1200	586/7T	P.O.A	P.O.A	P.O.A	IE450X06W22587TIS	532	426	96.2	4383	61.902	3.875
500	3600	586/7TS	P.O.A	P.O.A	P.O.A	IE500X02W22587TSIS	530	424	96.2	4085	55.027	2.375
	1800	586/7T	P.O.A	P.O.A	P.O.A	IE500X04W22587TIS	555	444	96.2	3911	61.902	3.875
	1200	586/7T	P.O.A	P.O.A	P.O.A	IE500X06W22587TIS	603	482	96.2	4403	61.902	3.875

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange

Voltage: Replace 'X' with '4' for 460V
Replace 'X' with '5' for 575V

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TEFC - Severe Duty - 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	$758	$917	$926	IE000X02W22IS	1.43	1.14	78.5	36.4	13.346	0.875
	1800	143/5T	$736	$894	$903	IE000X04W22IS	1.41	1.13	85.5	40.8	13.346	0.875
	1200	143/5T	$867	$1,017	$1,028	IE000X06W22IS	1.73	1.38	82.5	53	13.346	0.875
	900	182/4T	$1,338	$1,542	$1,558	IE000X08W22IS	2.30	1.84	78.5	95	15.86	1.125
1.5	3600	143/5T	$781	$931	$941	IE001X02W22IS	1.91	1.53	84.0	40.8	13.346	0.875
	1800	143/5T	$785	$936	$945	IE001X04W22IS	2.02	1.62	86.5	49	13.346	0.875
	1200	182/4T	$1,037	$1,241	$1,254	IE001X06W22IS	2.39	1.91	87.5	70.3	15.86	1.125
	900	182/4T	$1,613	$1,818	$1,836	IE001X08W22IS	2.70	2.16	82.5	110.9	15.86	1.125
2	3600	143/5T	$811	$961	$971	IE002X02W22IS	2.56	2.05	85.5	51.8	13.346	0.875
	1800	143/5T	$811	$961	$971	IE002X04W22IS	2.61	2.09	86.5	51	13.346	0.875
	1200	182/4T	$1,123	$1,327	$1,340	IE002X06W22IS	3.23	2.58	88.5	87.5	15.86	1.125
	900	213/5T	$1,998	$2,267	$2,290	IE002X08W22IS	3.39	2.71	85.5	148.8	19.517	1.375
3	3600	182/4T	$1,024	$1,228	$1,240	IE003X02W22IS	3.63	2.90	86.5	88	15.86	1.125
	1800	182/4T	$1,024	$1,228	$1,240	IE003X04W22IS	3.88	3.10	89.5	90	15.86	1.125
	1200	213/5T	$1,615	$1,884	$1,903	IE003X06W22IS	4.42	3.53	89.5	121	19.517	1.375
	900	213/5T	$2,188	$2,456	$2,481	IE003X08W22IS	4.56	3.65	85.5	176	19.517	1.375
5	3600	182/4T	$1,209	$1,413	$1,427	IE005X02W22IS	5.90	4.72	88.5	88	15.86	1.125
	1800	182/4T	$1,116	$1,321	$1,334	IE005X04W22IS	6.45	5.16	89.5	95	15.86	1.125
	1200	213/5T	$1,927	$2,196	$2,218	IE005X06W22IS	6.85	5.48	89.5	162	19.517	1.375
	900	254/6T	$3,334	$3,678	$3,715	IE005X08W22IS	7.60	6.08	87.5	258	24.945	1.625
7.5	3600	213/5T	$1,725	$1,994	$2,014	IE007X02W22IS	8.75	7.00	89.5	139	19.517	1.375
	1800	213/5T	$1,531	$1,800	$1,818	IE007X04W22IS	9.00	7.20	91.7	154	19.517	1.375
	1200	254/6T	$3,054	$3,398	$3,432	IE007X06W22IS	9.50	7.60	91.0	262	24.945	1.625
	900	254/6T	$4,031	$4,375	$4,419	IE007X08W22IS	11.1	8.88	87.5	284	24.945	1.625
10	3600	213/5T	$1,944	$2,213	$2,235	IE010X02W22IS	11.6	9.28	90.2	163	19.517	1.375
	1800	213/5T	$1,846	$2,114	$2,136	IE010X04W22IS	12.4	9.92	91.7	172	19.517	1.375
	1200	254/6T	$3,377	$3,721	$3,758	IE010X06W22IS	12.9	10.3	91.0	289	24.945	1.625
	900	284/6T	$4,739	$5,147	$5,199	IE010X08W22IS	13.4	10.7	90.2	373	27.929	1.875
15	3600	254/6T	$2,295	$2,639	$2,666	IE015X02W22IS	17.2	13.8	91.0	236	24.945	1.625
	1800	254/6T	$2,080	$2,424	$2,448	IE015X04W22IS	18.0	14.4	92.4	251	24.945	1.625
	1200	284/6T	$3,768	$4,177	$4,219	IE015X06W22IS	17.9	14.3	91.7	379	27.929	1.875
	900	284/6T	$5,450	$5,859	$5,918	IE015X08W22IS	19.4	15.5	90.2	417	27.929	1.875
20	3600	254/6T	$2,699	$3,044	$3,074	IE020X02W22IS	23.2	18.6	91.0	269	24.945	1.625
	1800	254/6T	$2,452	$2,796	$2,824	IE020X04W22IS	24.1	19.3	93.0	291	24.945	1.625
	1200	284/6T	$4,164	$4,573	$4,619	IE020X06W22IS	24.2	19.4	91.7	425	27.929	1.875
	900	324/6T	$6,750	$7,266	$7,339	IE020X08W22IS	28.3	22.6	91.0	452	31.116	2.125
25	3600	284/6TS	$3,396	$3,805	$3,843	IE025X02W22IS	28.5	22.8	91.7	362	26.557	1.625
	1800	284/6T	$2,964	$3,373	$3,406	IE025X04W22IS	29.5	23.6	93.6	388	27.929	1.875
	1200	324/6T	$5,203	$5,719	$5,777	IE025X06W22IS	30.4	24.3	93.0	560	31.116	2.125
	900	324/6T	$7,249	$7,765	$7,843	IE025X08W22IS	35.9	28.7	91.0	509	31.116	2.125
30	3600	284/6TS	$3,721	$4,130	$4,171	IE030X02W22IS	33.8	27.0	91.7	392	26.557	1.625
	1800	284/6T	$3,297	$3,706	$3,743	IE030X04W22IS	35.1	28.1	93.6	437	27.929	1.875
	1200	324/6T	$5,713	$6,229	$6,291	IE030X06W22IS	35.8	28.6	93.0	553	31.116	2.125
	900	364/5T	$10,927	$11,658	$11,775	IE030X08W22IS	37.0	29.6	92.4	802	34.251	2.375
40	3600	324/6TS	$4,974	$5,479	$5,534	IE040X02W22IS	45.8	36.6	92.4	547	29.616	1.875
	1800	324/6T	$4,700	$5,205	$5,257	IE040X04W22IS	48.2	38.6	94.1	492	31.116	2.125
	1200	364/5T	$9,551	$10,267	$10,370	IE040X06W22IS	46.5	37.2	94.1	833	34.251	2.375
	900	364/5T	$11,661	$12,377	$12,501	IE040X08W22IS	50.0	40.0	92.4	875	34.251	2.375
50	3600	324/6TS	$6,031	$6,536	$6,601	IE050X02W22IS	56.0	44.8	93.0	584	31.116	2.125
	1800	324/6T	$5,285	$5,791	$5,848	IE050X04W22IS	59.0	47.2	94.5	536	31.116	2.125
	1200	364/5T	$10,914	$11,630	$11,746	IE050X06W22IS	57.5	46.0	94.1	869	34.251	2.375
	900	404/5T	$15,856	$16,740	$16,907	IE050X08W22IS	60.0	48.0	93.0	1012	39.73	2.875
60	3600	364/5TS	$9,463	$10,179	$10,281	IE060X02W22IS	67.0	53.6	93.6	825	32.276	1.875
	1800	364/5T	$8,781	$9,497	$9,591	IE060X04W22IS	68.5	54.8	95.0	869	34.251	2.375
	1200	404/5T	$13,024	$13,908	$14,047	IE060X06W22IS	69.5	55.6	94.5	1036	39.73	2.875
	900	404/5T	$18,658	$19,543	$19,738	IE060X08W22IS	73.0	58.4	93.0	1111	39.73	2.875
75	3600	364/5TS	$12,198	$12,914	$13,043	IE075X02W22IS	82.0	65.6	93.6	847	32.276	1.875
	1800	364/5T	$10,846	$11,562	$11,678	IE075X04W22IS	84.0	67.2	95.4	919	34.251	2.375
	1200	404/5T	$14,148	$15,032	$15,183	IE075X06W22IS	85.0	68.0	94.5	1089	39.73	2.875
	900	444/5T	$25,790	$26,974	$27,243	IE075X08W22IS	93.0	74.4	93.6	1444	44.95	3.375
100	3600	404/5TS	$15,226	$16,110	$16,272	IE100X02W22IS	110	88.0	94.1	1045	36.732	2.125
	1800	404/5T	$13,106	$13,990	$14,130	IE100X04W22IS	111	88.8	95.4	1140	39.73	2.875
	1200	444/5T	$20,014	$21,198	$21,410	IE100X06W22IS	121	96.8	95.0	1576	44.95	3.375
	900	444/5T	$24,272	$25,455	$25,710	IE100X08W22IS	127	102	94.1	1598	44.95	3.375

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange

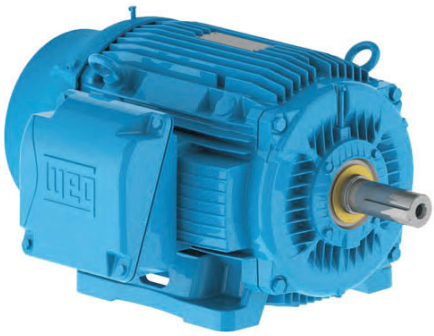
Voltage: Replace 'X' with '4' for 460V
Replace 'X' with '5' for 575V

W22 IEEE 841-2009 Motors

TEFC - Severe Duty

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4, 6 and 8 pole, 60Hz
- Voltage: 460V & 575V - 3 Lead only
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Die cast aluminum squirrel cage rotor
- Inpro 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.
- Insulated endbells from frame L447/9T and up
- NEMA design “B”
- Service Factor:
  - 1.25 up to 100HP
  - 1.15 from 125HP and up
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Lead separator
- Re-configurable Terminal Box for frames 445/7T and up
- Stainless steel nameplate with laser etching
- Stainless steel drain/breather plug
- All frames have dual mounting
- All cast iron construction: frame, endshields, terminal box and fan cover
- Regreasable ball bearings D.E. and N.D.E.
- Paint plan: 202E
- Color: RAL 5009 (Blue)
- Corrosion resistant epoxy finish
- Internal epoxy paint
- Oversized rotatable cast iron conduit box



Class I, Div 2, Groups A,B,C & D
Class II, Div 2, Groups F & G
Class I, Zone 2, IIC

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5T - 586/7T ≤ 250HP	All	20:1	1000:1	Any
	All	1000:1*		WEG
447/9T - 588/9T > 250 HP	All	6:1		Any
	All	12:1*		WEG
* Can only be achieved by a WEG VFD running in Sensorless Vector See page 7.6 for details				

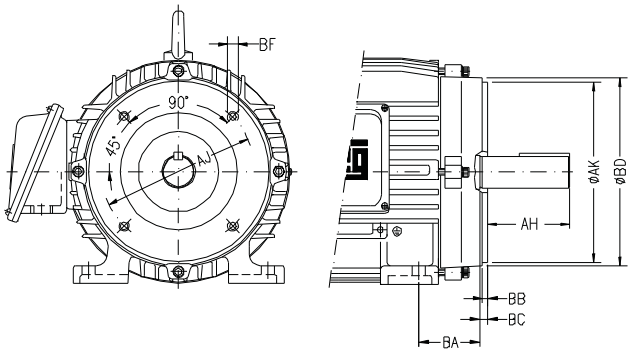
Optional Features

- 50 Hz
- Special Voltages
- Specially designed shaft
- Space heaters
- Second shaft end
- Thermistors, Thermostats or RTD's (PT100 - 3 wire)
- Auxiliary terminal box
- Drip cover (canopy) for shaft down applications
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Flange mount
- Bronze fan
- Inpro Seals
- Super premium efficiency

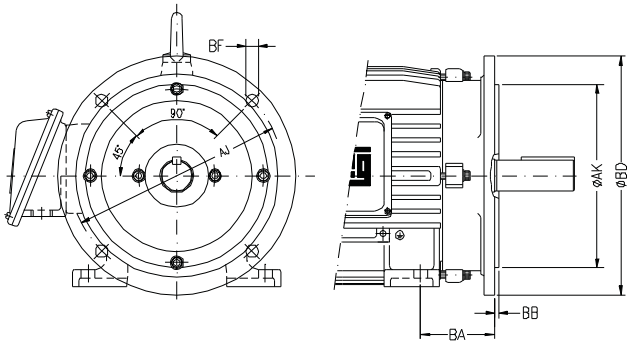
W22 Super Premium Efficiency Motors

TEFC - Severe Duty - 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
182/4TC	2.750	7.250	8.500	8.875		UNC 1/2"x13	0.250	0.250	2.625
213/5TC	3.500								3.125
254/6TC	4.250								3.75
284/6TC	4.750	9.000	10.500	11.031					4.375
284/6TSC									3.000
324/6TC	5.250	11.000	12.500	13.583		UNC 5/8"x11			5.000
324/6TSC									3.500
364/5TC	5.875			15.551	8				5.625
364/5TSC									3.500
404/5TC	6.625								7.000
404/5TSC									4.000
444/5TC	7.500	14.000	16.000	17.913					8.250
444/5TSC									4.500
445/7TC									8.250
445/7TSC									4.500
447/9TC									8.250
447/9TSC									4.500
L447/9TC									8.250
L447/9TSC									4.500
586/7TC	10.000	14.500	16.500						11.375



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
143/5TD	2.250	10.000	9.000	11.000	4	0.562	0.203
182/4TD	2.750						
213/5TD	3.500						
254/6TD	4.250	12.500	11.000	14.000		0.828	
284/6TD	4.750						
284/6TSD							
324/6TD	5.250	16.000	14.000	18.000			
324/6TSD							
364/5TD	5.875			17.716			
364/5TSD							
404/5TD	6.625	20.000	18.000	22.000	8		
404/5TSD							
444/5TD	7.500			21.653			
444/5TSD							
445/7TD							
445/7TSD							
447/9TD							
447/9TSD							
586/7T	10.000	30.000	28.000	32.000			0.250



W22 Super Premium Efficiency Motors

TEFC - Severe Duty - Mechanical Data

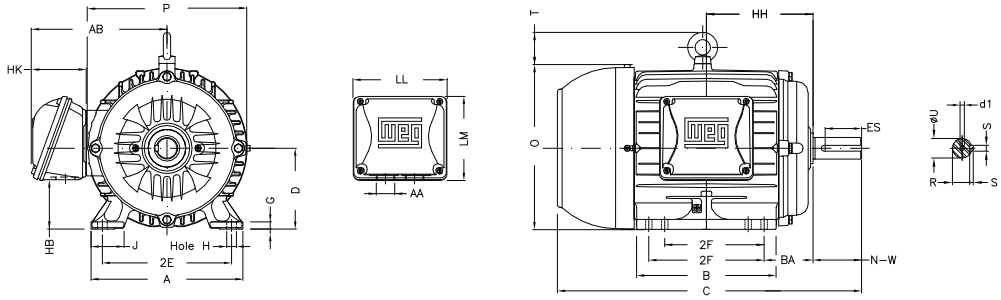
NEMA Frames	MOUNTING				A	B	C	D	G	J	O	K	P	T	KEYWAY			SHAFT EXTENSION	
	2E	2F	H	BA											S	R	ES	N-W	U
143/5T	5.500	4.000/5.000	0.344	2.250	6.457	6.142	13.346	3.500	0.354	1.437	7.122	-	7.047	-	0.187	0.765	1.575	2.250	0.875
L143/5T							14.566												
182/4T	7.500	4.500/5.500	0.406	2.750	8.661	6.969	15.860	4.500	0.394	1.594	9.343		8.740	1.772	0.250	0.984	1.969	2.750	1.125
L182/4T							17.041												
213/5T	8.500	5.500/7.000		3.500	9.764	8.858	19.517	5.250	0.827	1.988	10.841	2.165	10.669		0.313	1.203	2.480	3.375	1.375
L213/5T							20.461												
254/6T	10.000	8.252/10.000	0.531	4.250	12.126	11.732	24.945	6.250		2.539	12.598	2.559	12.953	2.087	0.375	1.406	2.756	4.000	1.625
284/6TS	11.000	9.500/11.000		4.750	13.780	13.071	26.557	7.000	1.023	3.110	14.067	2.874	14.173		0.375	1.406	2.480	3.250	1.625
284/6T							27.929								0.500	1.594	3.149	4.622	1.875
324/6TS	12.500	10.500/12.000	0.657	5.250	15.157	14.567	29.616	8.000	1.300	3.189	15.953	3.189	15.827	2.441		1.594	2.756	3.750	1.875
324/6T							31.116									1.844	3.937	5.250	2.125
364/5TS	14.016	11.260/12.244	0.660	5.875	17.165	16.220	32.276	9.000	1.480	3.150	17.716	4.921	17.914			1.591	1.968	3.748	1.875
364/5T							34.251								0.625	2.019	4.330	5.874	2.375
404/5TS	15.984	12.244/13.740	0.810	6.625	19.921	18.386	36.732	10.000	1.811	3.937	19.566	5.669	19.134	-	0.500	1.842	2.756	4.250	2.125
404/5T							39.730								0.750	2.449	5.512	7.250	2.875
444/5TS	18.000	14.500/16.500		7.500	21.929	20.315	41.443	11.000	1.630		22.795	5.866	23.583		0.625	2.021	3.000	4.750	2.375
444/5T							45.193								0.875	2.880	7.087	8.500	3.375
445/7TS		16.500/20.000			21.496	23.897	45.301		1.654		25.291			4.620	0.625	2.021	3.000	4.750	2.375
445/7T							49.051								0.875	2.880	7.087	8.500	3.375
447/9TS		20.000/25.000			21.929	31.535	52.588		1.630	4.331		6.692			0.625	2.021	3.000	4.750	2.375
447/9T							56.338								0.875	2.880	7.087	8.500	3.375
L447/9TS		20.000/25.000					53.431			3.937	23.874	8.780	25.866		0.625	2.021	3.000	4.750	2.375
L447/9T							57.181								0.875	2.880	7.087	8.500	3.375
586/7T	23.000	22.000/25.000	1.181	10.000	29.528	29.921	61.902	14.500	2.492	5.512	28.985	9.055	28.977	5.590	1.000	3.312	8.661	11.625	3.875

NEMA Frames	TERMINAL BOX									d1	BEARINGS	
	AB	HB	HF	HG	HH	HK	LL	LM	AA		D.E.	N.D.E
143/5T	6.181	1.728	3.500	-	4.750	2.638	4.527	4.094	NPT3/4"	A 4	6205 ZZ	6204 ZZ
L143/5T												
182/4T	7.559	2.236	4.500		5.500	3.110	5.512	5.236	NPT1"		6207 ZZ	6206 ZZ
L182/4T												
213/5T	8.583	3.006	5.250		7.000						6308 ZZ	6207 ZZ
L213/5T												
254/6T	10.394	3.061	6.565		9.250	3.937	7.795	7.402	NPT1 1/2"		6309 C3	6209 C3
284/6TS	10.984	3.535	7.000		10.250						6311 C3	6211 C3
284/6T												
324/6TS	12.480	4.811	8.708		11.250	4.645	8.976	8.543	NPT 2"		6312 C3	6212 C3
324/6T												
364/5TS	16.378	4.055	-		12.362	6.378	9.646	10.119	NPT 3"	UNC 3/4"-10	6314 C3	6314 C3
364/5T												
404/5TS		5.040			14.213						6316 C3	
404/5T												
444/5TS	18.386	5.394			15.748	5.787	11.811	11.890	2xNPT 3"		6314 C3	
444/5T											6319 C3	6316 C3
445/7TS	20.670	12.598	20.724	26.850	11.803	6.968	14.646	15.040			6314 C3	6314 C3
445/7T											6319 C3	6316 C3
447/9TS											6314 C3	6314 C3
447/9T											6322 C3	6319 C3
L447/9TS	23.071	11.417	20.551	28.236	11.500	8.464	15.906	17.244			6314 C3	6314 C3
L447/9T											6322 C3	6319 C3
586/7T	23.977	17.322	26.732	34.015	13.386					UNC 7/8"-9		

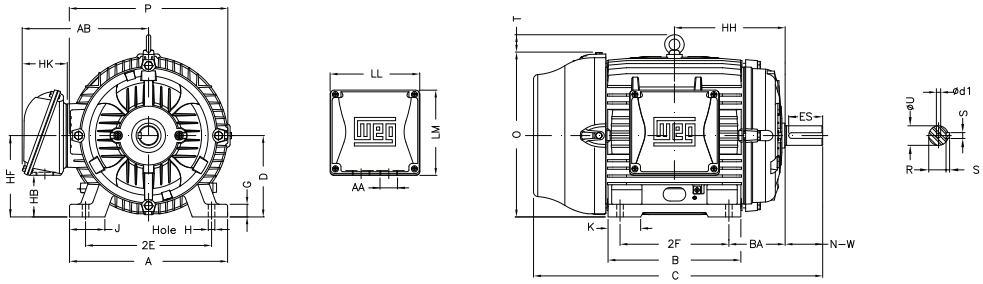
W22 Super Premium Efficiency Motors

TEFC - Severe Duty - Mechanical Data

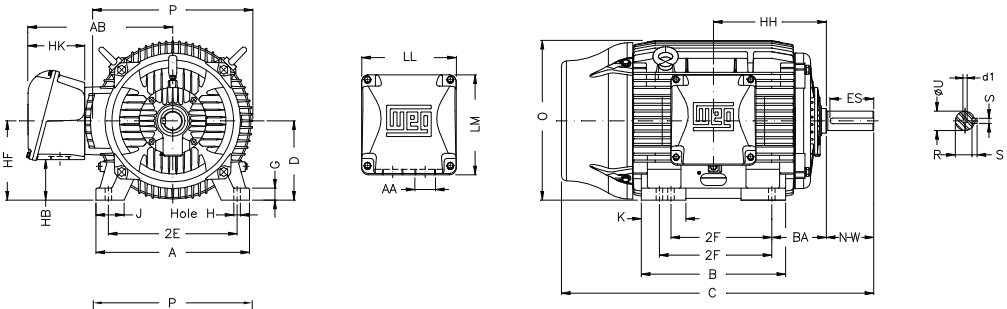
Frames 143T to 184T



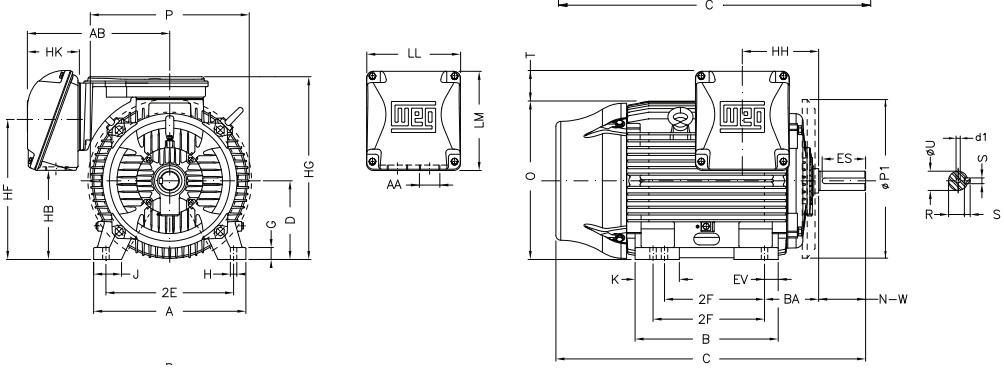
Frames 213T to 326T



Frames 364 to 444/5T



Frames 445/7T to 586/7T



W22 Super Premium Efficiency Motors

TEFC - Severe Duty - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	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%
1	0.75	3485	143/5T	2.70	1.35	1.08	7.2	250%	300%	36	39.7	68	1.25	81.5	82.5	84.0	0.69	0.79	0.83
		1760	L143/5T	2.66	1.33	1.06	9.0	260%	330%	33	50.7	51	1.25 *	84.0	86.5	87.5	0.59	0.70	0.79
1.5	1.1	3485	143/5T	3.84	1.92	1.54	8.4	300%	350%	29	41.9	68	1.25	84.0	85.5	86.5	0.67	0.78	0.83
		1760	L143/5T	3.86	1.93	1.54	8.8	280%	340%	20	55.1	51	1.25 *	85.5	87.5	88.5	0.62	0.74	0.81
2	1.5	3490	143/5T	5.12	2.56	2.05	8.2	320%	360%	23	50.7	68	1.25	85.5	87.5	87.5	0.69	0.80	0.84
		1760	L143/5T	5.28	2.64	2.11	8.6	290%	360%	14	57.3	51	1.25 *	86.5	87.5	88.5	0.61	0.74	0.81
3	2.2	3520	182/4T	7.34	3.67	2.94	8.5	240%	360%	50	88.2	69	1.25	84.0	86.5	88.5	0.70	0.81	0.85
		1765	182/4T	7.52	3.76	3.01	7.7	230%	320%	36	92.6	56	1.25	87.5	88.5	91.0	0.63	0.75	0.81
		1175	213/5T	8.60	4.30	3.44	6.6	180%	290%	90	172	55	1.25	87.5	89.5	90.2	0.51	0.63	0.71
5	3.7	3505	182/4T	12.0	5.99	4.79	8.2	240%	350%	30	94.8	69	1.25	87.5	88.5	90.2	0.73	0.83	0.86
		1755	L182/4T	12.8	6.40	5.12	7.5	230%	310%	20	101	56	1.25 *	88.5	90.2	91.0	0.61	0.73	0.80
		1170	L213/5T	13.7	6.83	5.46	6.5	190%	250%	70	198	55	1.25 *	89.5	91.0	91.0	0.56	0.68	0.75
7.5	5.5	3530	213/5T	17.6	8.82	7.06	7.6	230%	330%	37	141	72	1.25	87.5	89.5	91.0	0.73	0.82	0.86
		1770	213/5T	17.9	8.94	7.15	8.5	230%	350%	20	172	58	1.25	91.0	92.4	93.0	0.65	0.76	0.83
		1175	254/6T	18.9	9.46	7.57	6.8	250%	310%	50	304	59	1.25	90.2	91.7	92.4	0.60	0.72	0.79
10	7.5	3535	213/5T	23.0	11.5	9.20	8.0	240%	320%	34	172	72	1.25	89.5	91.0	91.7	0.77	0.85	0.89
		1765	L213/5T	24.0	12.0	9.60	8.4	230%	350%	16	181	58	1.25 *	91.7	92.4	93.0	0.66	0.78	0.84
		1180	254/6T	25.4	12.7	10.2	6.8	240%	300%	40	344	59	1.25	91.0	92.4	92.4	0.62	0.74	0.80
15	11	3545	254/6T	34.8	17.4	13.9	7.7	270%	350%	28	273	72	1.25	90.2	91.7	92.4	0.72	0.82	0.86
		1775	254/6T	35.6	17.8	14.2	8.5	280%	330%	20	280	64	1.25	91.7	93.0	93.6	0.66	0.76	0.83
		1180	284/6T	36.2	18.1	14.5	7.1	260%	300%	25	410	59	1.25	91.7	92.4	93.0	0.65	0.76	0.82
20	15	3545	254/6T	46.0	23.0	18.4	7.6	260%	340%	23	311	72	1.25	91.0	92.4	93.0	0.75	0.84	0.88
		1770	254/6T	49.4	24.7	19.8	7.4	260%	300%	30	326	64	1.25	93.0	93.6	94.1	0.63	0.75	0.81
		1180	284/6T	48.8	24.4	19.5	7.4	270%	300%	20	474	59	1.25	91.7	92.4	93.0	0.67	0.78	0.83
25	18.5	3550	284/6TS	57.0	28.5	22.8	7.5	240%	330%	20	386	72	1.25	91.7	93.0	93.6	0.75	0.83	0.87
		1775	284/6T	60.6	30.3	24.2	8.3	300%	340%	26	406	64	1.25	93.0	94.1	94.5	0.62	0.74	0.81
		1185	324/6T	61.6	30.8	24.6	7.3	260%	310%	30	527	62	1.25	92.4	93.6	94.1	0.61	0.73	0.80
30	22	3550	284/6TS	67.0	33.5	26.8	7.5	240%	330%	19	437	72	1.25	92.4	93.6	93.6	0.76	0.84	0.88
		1775	284/6T	71.2	35.6	28.5	8.0	320%	350%	25	450	64	1.25	93.0	94.1	94.5	0.64	0.76	0.82
		1185	324/6T	73.4	36.7	29.4	7.0	260%	300%	27	584	62	1.25	92.4	93.6	94.1	0.60	0.73	0.80
40	30	3565	324/6TS	93.0	46.5	37.2	7.5	280%	300%	27	547	74	1.25	92.4	94.1	94.1	0.74	0.83	0.86
		1780	324/6T	97.8	48.9	39.1	7.4	260%	300%	22	534	66	1.25	93.6	94.5	95.0	0.64	0.75	0.81
		1185	364/5T	97.8	48.9	39.1	8.4	260%	320%	22	875	66	1.25	93.6	94.5	95.0	0.64	0.76	0.81
50	37	3570	324/6TS	114.2	57.1	45.7	7.7	300%	300%	25	606	74	1.25	93.0	94.5	94.5	0.74	0.83	0.86
		1780	324/6T	120.2	60.1	48.1	7.4	260%	300%	20	597	66	1.25	94.1	95.0	95.4	0.62	0.73	0.81
		1185	364/5T	120.6	60.3	48.2	8.5	260%	330%	12	895	66	1.25	93.6	94.5	95.0	0.63	0.75	0.81
60	45	3570	364/5TS	133.6	66.8	53.4	7.9	240%	320%	25	926	79	1.25	93.0	94.5	95.0	0.79	0.86	0.89
		1780	364/5T	140.4	70.2	56.2	7.6	270%	320%	24	897	67	1.25	94.5	95.4	95.8	0.69	0.80	0.84
		1185	404/5T	144.4	72.2	57.8	7.9	280%	320%	22	1111	68	1.25	94.1	95.0	95.4	0.65	0.77	0.82
75	55	3570	364/5TS	165.2	82.6	66.1	8.0	260%	320%	14	937	79	1.25	93.6	95.0	95.0	0.77	0.85	0.88
		1780	364/5T	173.6	86.8	69.4	7.7	280%	320%	16	919	67	1.25	94.5	95.4	95.8	0.68	0.78	0.83
		1190	404/5T	178.6	89.3	71.4	8.0	280%	300%	15	1124	68	1.25	94.1	95.0	95.4	0.64	0.75	0.81
100	75	3565	404/5TS	220	110	88.0	8.0	290%	320%	20	1179	79	1.25	94.5	95.4	95.4	0.81	0.87	0.89
		1780	404/5T	232	116	92.8	8.8	270%	310%	12	1188	68	1.25	95.4	95.8	96.2	0.70	0.80	0.84
		1190	444/5T	248	124	99.2	7.6	260%	320%	27	1896	69	1.25	94.5	95.4	95.8	0.60	0.72	0.79
125	90	3580	444/5TS	272	136	109	8.2	230%	310%	44	1680	81	1.15	94.1	95.4	95.8	0.76	0.84	0.87
		1785	444/5T	288	144	115	7.2	220%	280%	38	1722	73	1.15	95.0	95.8	96.2	0.68	0.79	0.84
		1190	444/5T	304	152	122	7.2	240%	260%	25	1944	69	1.15	95.0	95.8	95.8	0.62	0.74	0.80
150	110	3580	444/5TS	326	163	130	7.9	260%	320%	30	1863	81	1.15	94.5	95.8	96.2	0.77	0.85	0.88
		1785	444/5T	340	170	136	8.9	250%	300%	30	1951	73	1.15	95.4	96.2	96.5	0.68	0.79	0.84
		1190	447/9T	358	179	143	7.5	260%	320%	22	2255	69	1.15	95.0	95.8	96.2	0.62	0.74	0.80
200	150	3575	445/7TS	434	217	174	7.3	240%	290%	28	2028	81	1.15	95.4	96.2	96.2	0.83	0.88	0.90
		1785	447/9T	468	234	187	7.7	280%	300%	24	2293	75	1.15	95.8	96.5	96.8	0.66	0.77	0.83
		1190	447/9T	490	245	196	7.5	260%	300%	15	2326	69	1.15	95.4	95.8	96.2	0.60	0.72	0.80
250	185	3575	445/7TS	534	267	214	7.9	220%	300%	23	2183	81	1.15	95.8	96.5	96.5	0.82	0.88	0.90
		1785	447/9T	572	286	229	7.5	270%	290%	21	2535	75	1.15	96.2	96.5	96.8	0.68	0.78	0.84

* 1.00 SF at 208V

W22 Super Premium Efficiency Motors

TEFC - Severe Duty - 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	$614	$737	$744	HT000X02SPW22	1.34	1.08	84.0	39.7	13.346	0.875
	1800	L143/5T	$574	$701	$708	HT000X04SPW22	1.33	1.06	87.5	50.7	14.566	0.875
1.5	3600	143/5T	$633	$755	$763	HT001X02SPW22	1.92	1.54	86.5	41.9	13.346	0.875
	1800	L143/5T	$617	$740	$747	HT001X04SPW22	1.93	1.54	88.5	55.1	14.566	0.875
2	3600	143/5T	$663	$786	$793	HT002X02SPW22	2.56	2.05	87.5	50.7	13.346	0.875
	1800	L143/5T	$642	$764	$772	HT002X04SPW22	2.64	2.11	88.5	57.3	14.566	0.875
3	3600	182/4T	$813	$966	$976	HT003X02SPW22	3.67	2.94	88.5	88.2	15.86	1.125
	1800	182/4T	$813	$966	$976	HT003X04SPW22	3.76	3.01	91.0	92.6	15.86	1.125
	1200	213/5T	$1,284	$1,467	$1,482	HT003X06SPW22	4.30	3.44	90.2	172	19.517	1.375
5	3600	182/4T	$951	$1,103	$1,114	HT005X02SPW22	5.99	4.79	90.2	94.8	15.86	1.125
	1800	L182/4T	$923	$1,076	$1,087	HT005X04SPW22	6.40	5.12	91.0	101	17.041	1.125
	1200	L213/5T	$1,534	$1,718	$1,735	HT005X06SPW22	6.83	5.46	91.0	198	20.905	1.375
7.5	3600	213/5T	$1,244	$1,427	$1,442	HT007X02SPW22	8.82	7.06	91.0	141	19.517	1.375
	1800	213/5T	$1,223	$1,406	$1,420	HT007X04SPW22	8.94	7.15	93.0	172	19.517	1.375
	1200	254/6T	$2,363	$2,638	$2,664	HT007X06SPW22	9.46	7.57	92.4	304	24.945	1.625
10	3600	213/5T	$1,434	$1,617	$1,633	HT010X02SPW22	11.5	9.20	91.7	172	19.517	1.375
	1800	L213/5T	$1,443	$1,626	$1,642	HT010X04SPW22	12.0	9.60	93.0	181	20.905	1.375
	1200	254/6T	$2,613	$2,888	$2,917	HT010X06SPW22	12.7	10.2	92.4	344	24.945	1.625
15	3600	254/6T	$2,170	$2,445	$2,470	HT015X02SPW22	17.4	13.9	92.4	273	24.945	1.625
	1800	254/6T	$2,078	$2,354	$2,377	HT015X04SPW22	17.8	14.2	93.6	280	24.945	1.625
	1200	284/6T	$3,561	$3,928	$3,967	HT015X06SPW22	18.1	14.5	93.0	410	27.929	1.875
20	3600	284/6TS	$2,913	$3,198	$3,230	HT020X02SPW22	23.0	18.4	93.0	311	24.945	1.625
	1800	284/6T	$2,647	$2,932	$2,961	HT020X04SPW22	24.7	19.8	94.1	326	24.945	1.625
	1200	324/6T	$4,495	$4,875	$4,924	HT020X06SPW22	24.4	19.5	93.0	474	27.929	1.875
25	3600	284/6TS	$3,683	$4,050	$4,091	HT025X02SPW22	28.5	22.8	93.6	386	27.929	1.875
	1800	284/6T	$3,212	$3,579	$3,615	HT025X04SPW22	30.3	24.2	94.5	406	27.929	1.875
	1200	324/6T	$5,646	$6,104	$6,165	HT025X06SPW22	30.8	24.6	94.1	527	31.116	2.125
30	3600	324/6TS	$4,251	$4,631	$4,677	HT030X02SPW22	33.5	26.8	93.6	437	26.557	1.625
	1800	324/6T	$3,769	$4,149	$4,191	HT030X04SPW22	35.6	28.5	94.5	450	27.929	1.875
	1200	364/5T	$6,533	$7,008	$7,079	HT030X06SPW22	36.7	29.4	94.1	584	31.116	2.125
40	3600	324/6TS	$5,060	$5,485	$5,540	HT040X02SPW22	46.5	37.2	94.1	547	31.116	2.125
	1800	324/6T	$4,589	$4,997	$5,046	HT040X04SPW22	48.9	39.1	95.0	534	31.116	2.125
	1200	364/5T	$7,917	$8,732	$8,820	HT040X06SPW22	48.9	39.1	95.0	875	34.251	2.375
50	3600	364/5TS	$6,187	$6,611	$6,677	HT050X02SPW22	57.1	45.7	94.5	606	29.616	1.875
	1800	364/5T	$5,420	$5,844	$5,903	HT050X04SPW22	60.1	48.1	95.4	597	31.116	2.125
	1200	404/5T	$9,509	$10,358	$10,462	HT050X06SPW22	60.3	48.2	95.0	895	34.251	2.375
60	3600	364/5TS	$7,939	$8,754	$8,842	HT060X02SPW22	66.8	53.4	95.0	926	32.276	1.875
	1800	364/5T	$8,050	$8,866	$8,954	HT060X04SPW22	70.2	56.2	95.8	897	34.251	2.375
	1200	404/5T	$10,901	$11,716	$11,833	HT060X06SPBBW22405T	72.2	57.8	95.4	1111	39.73	2.875
75	3600	404/5TS	$10,625	$11,474	$11,588	HT075X02SPW22	82.6	66.1	95.0	937	32.276	1.875
	1800	404/5T	$10,013	$10,862	$10,971	HT075X04SPW22	86.8	69.4	95.8	919	34.251	2.375
	1200	444/5T	$12,323	$13,172	$13,303	HT075X06SPBBW22405T	89.3	71.4	95.4	1124	39.73	2.875
100	3600	444/5TS	$13,605	$14,454	$14,598	HT100X02SPBBW22405TS	110	88.0	95.4	1179	36.732	2.125
	1800	444/5T	$12,405	$13,254	$13,386	HT100X04SPBBW22405T	116	92.8	96.2	1188	39.73	2.875
	1200	444/5T	$16,938	$18,296	$18,479	HT100X06SPBBW22445T	124	99.2	95.8	1896	44.95	3.375
125	3600	444/5TS	$17,728	$19,087	$19,278	HT125X02SPBBW22445TS	136	109	95.8	1680	41.2	2.375
	1800	444/5T	$15,886	$17,245	$17,417	HT125X04SPBBW22445T	144	115	96.2	1722	44.95	3.375
	1200	447/9T	$20,290	$21,705	$21,922	HT125X06SPBBW22445T	152	122	95.8	1944	44.95	3.375
150	3600	445/7TS	$22,777	$24,192	$24,434	HT150X02SPBBW22445TS	163	130	96.2	1863	41.2	2.375
	1800	447/9T	$19,169	$20,584	$20,790	HT150X04SPBBW22445T	170	136	96.5	1951	44.95	3.375
	1200	447/9T	$23,669	$25,084	$25,335	HT150X06SPBBW22449T	179	143	96.2	2255	56.338	3.375
200	3600	445/7TS	$27,830	$29,189	$29,480	HT200X02SPBBW22447TS	217	174	96.2	2028	44.951	2.375
	1800	447/9T	$23,539	$24,954	$25,203	HT200X04SPBBW22449T	234	187	96.8	2293	56.338	3.375
	1200	447/9T	$30,161	$31,576	$31,892	HT200X06SPBBW22449T	245	196	96.2	2326	56.338	3.375
250	3600	445/7TS	$31,468	$32,827	$33,155	HT250X02SPBBW22447TS	267	214	96.5	2183	44.951	2.375
	1800	447/9T	$34,336	$36,458	$36,823	HT250X04SPBBW22449T	286	229	96.8	2535	56.338	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

Bearings: Replace 'RB' with 'BB' for Ball Bearings on frame 404/5T and up

W22 Super Premium Efficiency Motors

TEFC - Severe Duty

Standard Features

- Motors are compliant with DOE and NRCAN
- Three-phase, 2, 4 & 6 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
- Sealing:
  - V’Ring sealing up to frame 324/6T.
  - WSeal® (double lipped V’Ring with a metallic cap) sealing on both endshields from frame 364/5T and up
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 364/5T, 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.
- Insulated endbells from frame L447/9T and up
- NEMA design “A”
- Service Factor:
  - 1.25 up to 100HP
  - 1.15 from 125HP and up
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Re-configurable Terminal Box for frames 445/7T and up
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207A - Frames 143T to 215T
  - 203A - Frames 254T to 586/7T
- Color: RAL 6002 - Green
- Fitted with closed rubber drain breathers
- Regreasable bearings for frames 254/6T and up
- All frames have dual mounting

Class I, Div 2, Groups A,B,C & D
Class II, Div 2, Groups F & G
Class I, Zone 2, IIC

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5T - 586/7T ≤ 250HP	All	20:1	1000:1	Any
	All	1000:1*		WEG
* Can only be achieved by a WEG VFD running in Sensorless Vector See page 7.6 for details				

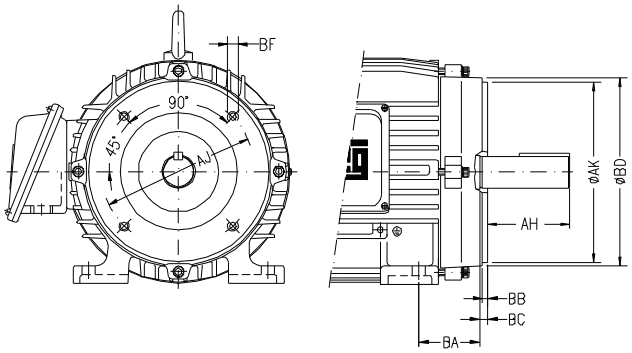
Optional Features

- 50Hz
- Special voltages
- Special shafts
- Space heaters
- Labyrinth taconite seal available for all ratings
- Thermostats, Thermistors, RTD’s (PT100)
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- NEMA C & D flanges and Metric flanges for all ratings
- Roller bearings
- Special paint
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Insulated bearings
- Insulated endbells (standard for frame L447/9T and up)
- Degree of protection: IP56, IP65, IP66
- Forced ventilation
- Encoders
- No feet

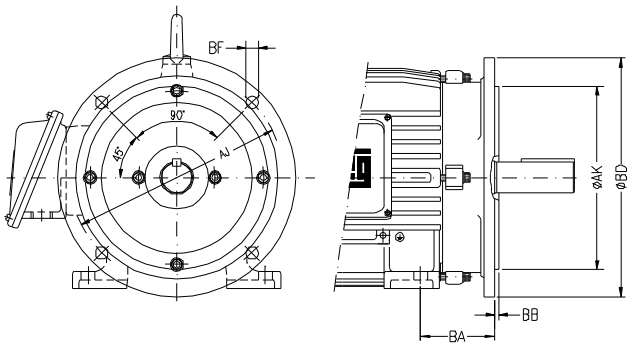
W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - 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
182/4TC	2.750	7.250	8.500	8.875		UNC 1/2"x13	0.250	0.250	2.625
213/5TC	3.500								3.125
254/6TC	4.250								3.75
284/6TC	4.750	9.000	10.500	11.031					4.375
284/6TSC									3.000
324/6TC	5.250	11.000	12.500	13.583		UNC 5/8"x11			5.000
324/6TSC									3.500
364/5TC	5.875			15.551	8				5.625
364/5TSC									3.500
404/5TC	6.625								7.000
404/5TSC									4.000
444/5TC	7.500	14.000	16.000	17.913					8.250
444/5TSC									4.500
445/7TC									8.250
445/7TSC									4.500
447/9TC									8.250
447/9TSC									4.500
L447/9TC									8.250
L447/9TSC									4.500
504/5TC	8.500	14.500	16.500						10.375
504/5TSC									4.500
586/7TC	10.000								11.375
586/7TSC									4.500
588/9TC	Available on request								
588/9TSC									



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
143/5TD	2.250	10.000	9.000	11.000	4	0.562	0.203
182/4TD	2.750						
213/5TD	3.500						
254/6TD	4.250	12.500	11.000	14.000		0.828	
284/6TD	4.750						
284/6TSD							
324/6TD	5.250	16.000	14.000	18.000			
324/6TSD							
364/5TD	5.875			17.716			
364/5TSD							
404/5TD	6.625	20.000	18.000	22.000	8		
404/5TSD							
444/5TD	7.500			21.653			
444/5TSD							
445/7TD							
445/7TSD							
447/9TD							
447/9TSD							
504/5TD	8.500	22.000	18.000	24.803			0.250
504/5TSD							
586/7TD	10.000	30.000	28.000	32.000			
586/7TSD							
588/9TD							
588/9TSD							



W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - Mechanical Data

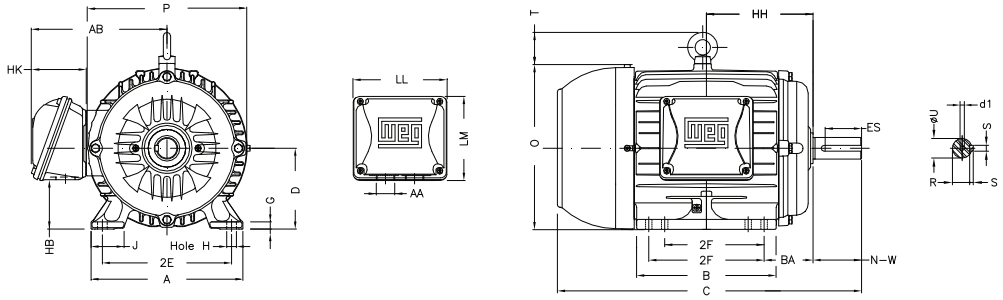
NEMA Frames	MOUNTING				A	B	C	D	G	J	O	K	P	T	KEYWAY			SHAFT EXTENSION	
	2E	2F	H	BA											S	R	ES	N-W	U
143/5T	5.500	5.000	0.344	2.250	6.457	6.142	13.346	3.500	0.354	1.437	7.122	-	7.047	-	0.187	0.765	1.575	2.250	0.875
182/4T	7.500	5.500	0.406	2.750	8.661	6.969	15.860	4.500	0.394	1.594	9.343		8.740	1.772	0.250	0.984	1.969	2.750	1.125
213/5T	8.500	7.000		3.500	9.764	8.858	19.517	5.250	0.827	1.988	10.841	2.165	10.669		0.313	1.203	2.480	3.375	1.375
254/6T	10.000	10.000	0.531	4.250	12.126	11.732	24.945	6.250		2.539	12.598	2.559	12.953	2.087	0.375	1.406	2.756	4.000	1.625
284/6TS	11.000	11.000		4.750	13.780	13.071	26.557	7.000	1.023	3.110	14.067	2.874	14.173		0.375	1.406	2.480	3.250	1.625
284/6T							27.929								0.500	1.594	3.149	4.622	1.875
324/6TS	12.500	12.000	0.657	5.250	15.157	14.567	29.616	8.000	1.300	3.189	15.953	3.189	15.827	2.441		1.594	2.756	3.750	1.875
324/6T							31.116									1.844	3.937	5.250	2.125
364/5TS	14.016	11.260/12.244	0.660	5.875	17.165	16.220	32.276	9.000	1.480	3.150	17.716	4.921	17.914	-		1.591	1.968	3.748	1.875
364/5T							34.251								0.625	2.019	4.330	5.874	2.375
404/5TS	15.984	12.244/13.740	0.810	6.625	19.921	18.386	36.732	10.000	1.811	3.937	19.566	5.669	19.134		0.500	1.842	2.756	4.250	2.125
404/5T							39.730								0.750	2.449	5.512	7.250	2.875
444/5TS	18.000	14.500/16.500		7.500	21.929	20.315	41.443	11.000	1.630		22.795	5.866	23.583		0.625	2.021	3.000	4.750	2.375
444/5T							45.193								0.875	2.880	7.087	8.500	3.375
445/7TS		16.500/20.000			21.496	23.897	45.301		1.654		25.291			4.620	0.625	2.021	3.000	4.750	2.375
445/7T							49.051								0.875	2.880	7.087	8.500	3.375
447/9TS		20.000/25.000			21.929	31.535	52.588		1.630	4.331		6.692			0.625	2.021	3.000	4.750	2.375
447/9T							56.338								0.875	2.880	7.087	8.500	3.375
L447/9TS		20.000/25.000					53.431			3.937	23.874	8.780	25.866		0.625	2.021	3.000	4.750	2.375
L447/9T							57.181								0.875	2.880	7.087	8.500	3.375
504/5TS	20.000	16.000/18.000	1.250	8.500	24.724	24.449	48.215	12.500	2.146	4.724	25.425	7.228		4.880	0.625	2.021	3.000	4.750	2.375
504/5T							54.095								0.875	3.134	8.661	10.630	3.625
586/7TS	23.000	22.000/25.000	1.181	10.000	29.528	29.921	54.829	14.500	2.492	5.512	28.985	9.055	28.977	5.590	0.625	2.021	3.000	4.750	2.375
586/7T							61.704								1.000	3.312	8.661	11.625	3.875
588/9TS		28.000/32.000				37.980	62.506					12.795		8.464	0.625	2.021	3.000	4.750	2.375
588/9T							69.381								1.000	3.312	8.661	11.625	3.875

NEMA Frames	TERMINAL BOX									d1	BEARINGS	
	AB	HB	HF	HG	HH	HK	LL	LM	AA		D.E.	N.D.E
143/5T	6.181	1.728	3.500		4.750	2.638	4.527	4.094	NPT3/4"		6205 ZZ	6204 ZZ
182/4T	7.559	2.236	4.500		5.500	3.110	5.512	5.236	NPT1"		6207 ZZ	6206 ZZ
213/5T	8.583	3.006	5.250		7.000						6308 ZZ	6207 ZZ
254/6T	10.394	3.061	6.565		9.250	3.937	7.795	7.402	NPT1 1/2"	A 4	6309 C3	6209 C3
284/6TS	10.984	3.535	7.000		10.250						6311 C3	6211 C3
284/6T												
324/6TS	12.480	4.811	8.708	-	11.250	4.645	8.976	8.543	NPT 2"		6312 C3	6212 C3
324/6T												
364/5TS	16.378	4.055	-		12.362	6.378	9.646	10.119	NPT 3"		6314 C3	6314 C3
364/5T												
404/5TS		5.040			14.213							
404/5T											6316 C3	
444/5TS	18.386	5.394			15.748	5.787	11.811	11.890			6314 C3	
444/5T											6319 C3	6316 C3
445/7TS	20.670	12.598	20.724	26.850	11.803	6.968	14.646	15.040		UNC 3/4"-10	6314 C3	6314 C3
445/7T											6319 C3	6316 C3
447/9TS											6314 C3	6314 C3
447/9T											6322 C3	6319 C3
L447/9TS	23.071	11.417	20.551	28.236	11.500	8.464	15.906	17.244	2xNPT 3"		6314 C3	6314 C3
L447/9T											6322 C3	6319 C3
504/5TS	20.670	15.275	24.291	29.409	10.394	6.968	14.646	15.040			6314 C3	6314 C3
504/5T											6319 C3	6316 C3
586/7TS	23.977	17.322	26.732	34.015	13.386	8.464	15.906	17.244			6314 C3	6314 C3
586/7T										UNC 7/8"-9	6322 C3	6319 C3
588/9TS	27.600	8.464	28.346			12.520	17.441	28.740		UNC 3/4"-10	6314 C3	6314 C3
588/9T										UNC 7/8"-9	6322 C3	6319 C3

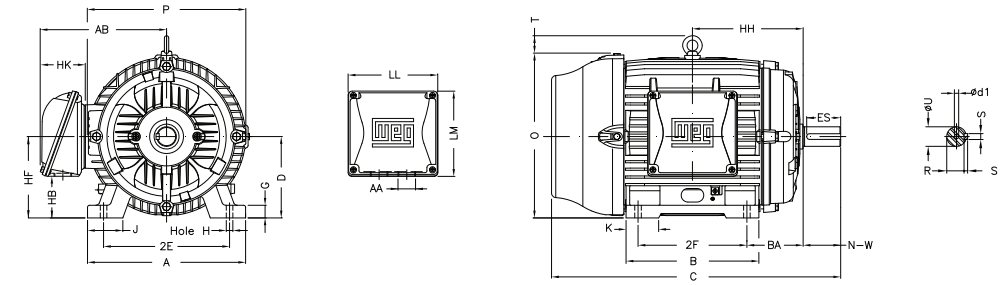
W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - Mechanical Data

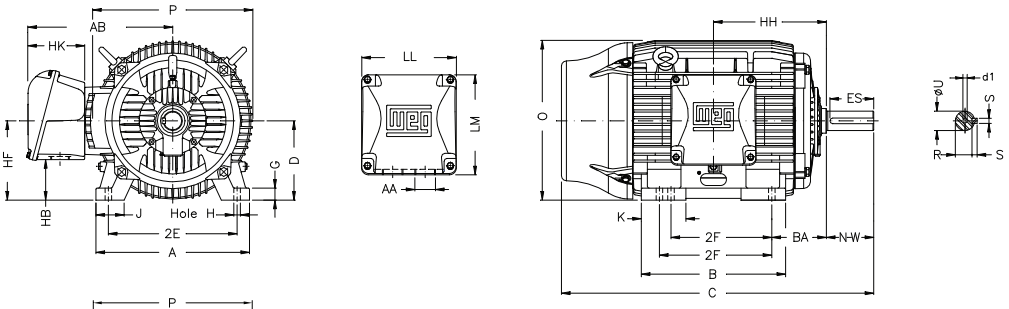
Frames 143T to 184T



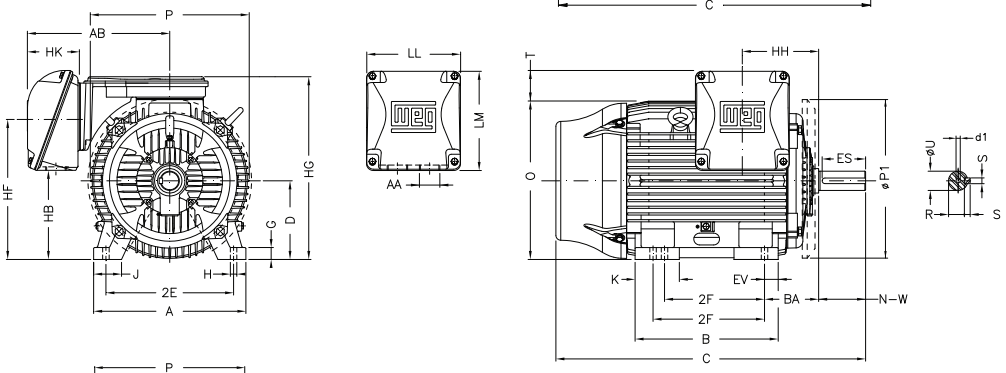
Frames 213T to 326T



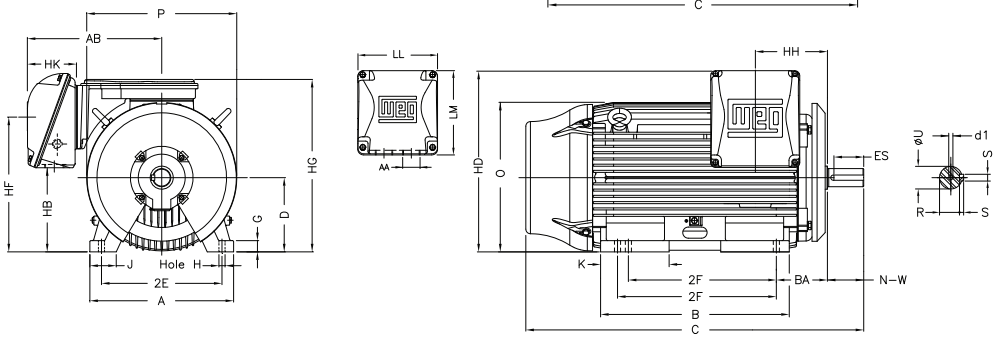
Frames 364 to 444/5T



Frames 445/7T to 586/7T



Frame 588/9T



W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	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	322	161	129	6.5	180%	240%	22	1709	81.0	1.15	94.1	95.0	95.0	0.83	0.88	0.90
		1780	444/5T	340	170	136	6.6	200%	250%	27	1676	73.0	1.15	95.4	95.8	95.8	0.74	0.82	0.85
		1190	504/5T	352	176	141	6.7	230%	250%	29	2249	70.0	1.15	94.5	95.4	95.8	0.67	0.78	0.82
		1190	445/7T	352	176	141	6.7	240%	290%	20	2042	69.0	1.15	95.0	95.4	95.8	0.67	0.78	0.82
		890	504/5T	360	180	144	5.8	180%	200%	21	2293	66.0	1.15	94.5	94.5	94.5	0.68	0.77	0.81
		890	445/7T	370	185	148	6.0	190%	210%	15	2042	63.0	1.15	94.5	94.5	94.5	0.64	0.74	0.79
200	150	3575	504/5TS	444	222	178	7.2	200%	270%	17	2168	81.0	1.15	94.1	95.0	95.4	0.81	0.87	0.89
		3570	445/7TS	438	219	175	7.2	240%	240%	14	1914	81.0	1.15	95.0	95.4	95.4	0.86	0.89	0.90
		1785	504/5T	456	228	182	6.6	220%	220%	22	2273	---	1.15	95.4	96.2	96.2	0.75	0.83	0.86
		1780	445/7T	460	230	184	6.8	240%	250%	16	1899	---	1.15	95.4	96.2	96.2	0.73	0.82	0.85
		1190	504/5T	474	237	190	6.6	220%	230%	21	2459	70.0	1.15	95.0	95.4	95.8	0.70	0.80	0.83
		1190	445/7T	474	237	190	6.6	230%	240%	15	2247	69.0	1.15	95.0	95.4	95.8	0.68	0.79	0.83
		890	447/9T	508	254	203	6.2	200%	220%	13	2509	---	1.15	94.5	95.0	95.0	0.62	0.73	0.78
		895	586/7T	494	247	198	6.3	140%	210%	40	3334	75.0	1.15	95.0	95.4	95.4	0.65	0.75	0.80
250	185	3575	504/5TS	538	269	215	7.0	200%	240%	23	2388	81.0	1.15	95.0	95.8	95.8	0.85	0.89	0.90
		3570	445/7TS	532	266	213	6.5	230%	220%	18	2159	81.0	1.15	95.4	95.8	95.8	0.87	0.90	0.91
		1785	504/5T	554	277	222	6.6	230%	220%	20	2450	75.0	1.15	95.8	96.2	96.2	0.78	0.85	0.87
		1780	445/7T	562	281	225	6.6	230%	240%	15	2079	73.0	1.15	95.8	96.2	96.2	0.75	0.83	0.86
		1185	447/9T	584	292	234	6.7	240%	240%	12	2538	---	1.15	95.0	95.4	95.8	0.68	0.79	0.83
		1190	586/7T	598	299	239	6.2	200%	210%	30	3206	77.0	1.15	95.0	95.4	95.8	0.68	0.77	0.81
		895	586/7T	598	299	239	6.2	140%	210%	40	3649	75.0	1.15	95.4	95.8	95.8	0.66	0.76	0.81
		890	L447/9T	616	308	246	6	200%	230%	24	3549	64	1.15	95.4	95.4	95.4	0.65	0.75	0.79
300	220	3570	447/9TS	640	320	256	7.0	250%	240%	14	2545	---	1.15	95.4	95.8	95.8	0.86	0.89	0.90
		3580	586/7TS	634	317	254	6.5	150%	220%	35	3382	84.0	1.15	95.0	95.8	95.8	0.87	0.90	0.91
		1780	447/9T	660	330	264	6.5	230%	230%	16	2381	---	1.15	95.8	96.2	96.2	0.77	0.84	0.87
		1790	586/7T	668	334	267	6.8	230%	230%	19	3080	78.0	1.15	95.4	96.2	96.2	0.77	0.84	0.86
		1185	447/9T	694	347	278	6.8	250%	250%	9	2613	---	1.15	95.4	95.8	95.8	0.68	0.78	0.83
		1190	586/7T	712	356	285	6.0	200%	200%	30	3495	77.0	1.15	95.4	95.8	95.8	0.69	0.78	0.81
		895	586/7T	712	356	285	6.5	150%	220%	40	4035	75.0	1.15	95.4	95.8	95.8	0.66	0.77	0.81
		890	L447/9T	742	371	297	6.3	220%	240%	16	3704	64	1	95.4	95.4	95.4	0.62	0.73	0.78
350	260	3575	447/9TS	754	377	302	7.6	240%	250%	10	2701	---	1.15	95.4	96.2	96.2	0.85	0.89	0.90
		3580	586/7TS	746	373	298	6.6	160%	230%	28	3621	84.0	1.15	95.4	96.2	96.2	0.86	0.90	0.91
		1780	447/9T	788	394	315	6.9	250%	240%	14	2675	---	1.15	95.8	96.2	96.2	0.77	0.84	0.86
		1790	586/7T	788	394	315	6.4	200%	200%	23	2675	78.0	1.15	95.8	96.2	96.2	0.78	0.85	0.86
		1190	586/7T	842	421	337	6.3	210%	210%	29	3784	77.0	1.15	95.4	95.8	95.8	0.67	0.77	0.81
		895	586/7T*	852	426	341	6.4	160%	230%	34	4309	75.0	1.15	95.4	95.8	95.8	0.64	0.75	0.80
		1190	L447/9T	830	415	332	6.9	250%	270%	23	3574	71	1.15	95.4	95.8	95.8	0.66	0.77	0.82
400	300	3580	586/7TS	860	430	344	6.5	180%	220%	48	3749	84.0	1.15	95.8	96.2	96.2	0.88	0.90	0.91
		3580	L447/9TS	864	432	346	6.7	220%	250%	25	3157	88	1	95.4	95.8	95.8	0.85	0.9	0.91
		1790	586/7T	910	455	364	6.4	200%	220%	19	3455	78.0	1.15	95.8	96.2	96.2	0.78	0.85	0.86
		1785	L447/9T	890	445	356	6.5	250%	260%	21	3285	79	1.15	95.4	95.8	96.2	0.8	0.85	0.88
		1190	586/7T	966	483	386	6.5	230%	210%	29	4115	77.0	1.15	95.4	95.8	96.2	0.67	0.77	0.81
		1190	L447/9T	954	477	382	6.9	240%	250%	13	3682	71	1	95.4	95.8	95.8	0.68	0.78	0.82
		895	588/9T	996	498	398	6.4	150%	230%	47	4851	75.0	1.15	95.0	95.6	95.7	0.62	0.73	0.79
450	330	3580	586/7TS	946	473	378	6.6	200%	230%	34	3918	84.0	1.15	95.8	96.2	96.2	0.88	0.90	0.91
		3575	L447/9TS	950	475	380	7.2	240%	260%	26	3267	88	1	95.4	95.8	95.8	0.84	0.89	0.91
		1790	586/7T	1002	501	401	6.8	240%	210%	16	3640	78.0	1.15	95.8	96.2	96.2	0.78	0.85	0.86
		1190	586/7T	1064	532	426	6.2	210%	210%	26	4384	77.0	1.15	95.8	96.2	96.2	0.67	0.77	0.81
		1785	L447/9T	1002	501	401	6.9	260%	250%	22	3395	79	1	95.4	96.2	96.2	0.74	0.83	0.86
		895	588/9T	1080	540	432	6.5	160%	230%	46	5281	75.0	1.15	95.2	95.7	95.8	0.63	0.74	0.80
500	370	3580	586/7TS	1060	530	424	6.8	220%	240%	39	4086	84.0	1.15	95.8	96.2	96.2	0.88	0.90	0.91
		1790	586/7T	1110	555	444	6.5	240%	200%	16	3912	78.0	1.15	95.8	96.2	96.2	0.80	0.85	0.87
		1190	586/7T	1206	603	482	6.5	220%	210%	25	4403	77.0	1.15	95.8	96.2	96.2	0.66	0.76	0.80
		1789	L447/9T	1122	561	449	7.5	290%	260%	22	3461	79	1	95.4	96.2	96.2	0.73	0.82	0.86
550	400	1190	588/9T	1322	661	529	6.5	220%	230%	30	4734	77.0	1.15	95.2	96.0	96.1	0.63	0.74	0.79
600	450	3585	588/9TS	1300	650	520	7.4	230%	270%	33	4410	89.0	1.15	96.0	96.5	96.5	0.84	0.89	0.90
		1790	586/7T	1330	665	532	7.1	220%	250%	16	4335	78.0	1.15	96.2	96.4	96.5	0.74	0.82	0.86
		1190	588/9T	1486	743	594	6.5	220%	230%	31	5173	77.0	1.15	95.4	96.1	96.2	0.63	0.74	0.79
650	480	3585	588/9TS	1370	685	548	7.1	200%	240%	56	4635	89.0	1.15	96.1	96.6	96.6	0.86	0.90	0.91
		1790	588/9T	1468	734	587	7.4	250%	270%	22	4395	81.0	1.15	96.0	96.5	96.6	0.71	0.81	0.85
700	515	3585	588/9TS*	1472	736	589	7.2	230%	250%	34	4805	89.0	1.15	96.2	96.6	96.6	0.86	0.90	0.91
		1790	588/9T	1576	788	630	7.0	250%	260%	23	4584	81.0	1.15	96.2	96.5	96.6	0.71	0.81	0.85
750	560	1790	588/9T*	1680	840	672	7.0	240%	250%	29	4952	81.0	1.00	96.3	96.6	96.7	0.70	0.80	0.85

* Not Division 2

W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (Il/In)	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%
1	0.75	3495	143/5T	2.86	1.43	1.14	8.2	280%	340%	22	36.4	68	1.25	74.0	77.0	78.5	0.69	0.79	0.84
		1760	143/5T	2.78	1.39	1.11	8.4	230%	350%	18	40.8	51	1.25	80.0	84.0	85.5	0.60	0.72	0.79
		1150	143/5T	3.46	1.73	1.38	6.2	300%	300%	28	52.9	49	1.25	77.0	82.0	82.5	0.45	0.57	0.66
		875	182/4T	4.60	2.30	1.84	6.0	300%	350%	22	94.8	50	1.25	74.0	77.0	78.5	0.32	0.42	0.52
1.5	1.1	3490	143/5T	3.80	1.90	1.52	8.9	350%	380%	21	40.8	68	1.25	81.5	84.0	84.0	0.72	0.82	0.86
		1755	143/5T	3.94	1.97	1.58	8.3	240%	340%	14	48.5	51	1.25	82.5	85.5	86.5	0.62	0.74	0.81
		1165	182/4T	4.78	2.39	1.91	8.0	320%	400%	16	70.3	52	1.25	84.0	86.5	87.5	0.45	0.56	0.66
		860	182/4T	5.40	2.70	2.16	5.5	250%	260%	17	111	50	1.25	80.0	82.5	82.5	0.43	0.54	0.62
2	1.5	3480	143/5T	5.06	2.53	2.02	8.7	350%	380%	17	51.8	68	1.25	82.5	85.5	85.5	0.73	0.82	0.87
		1750	143/5T	5.22	2.61	2.09	7.5	210%	300%	11	50.7	51	1.25	84.0	86.5	86.5	0.66	0.78	0.84
		1165	182/4T	6.46	3.23	2.58	7.5	300%	300%	31	87.5	52	1.25	86.5	88.5	88.5	0.46	0.58	0.66
		870	213/5T	6.78	3.39	2.71	7.6	240%	290%	39	149	52	1.25	82.5	84.0	85.5	0.45	0.55	0.65
3	2.2	3510	182/4T	7.24	3.62	2.90	8.3	240%	380%	41	88.2	69	1.25	82.5	86.5	86.5	0.75	0.84	0.88
		1760	182/4T	7.76	3.88	3.10	8.1	230%	340%	23	90.4	56	1.25	86.5	88.5	89.5	0.61	0.73	0.79
		1170	213/5T	8.82	4.41	3.53	7.0	200%	280%	58	121	55	1.25	86.5	88.5	89.5	0.50	0.63	0.70
		865	213/5T	9.12	4.56	3.65	6.8	230%	280%	44	176	52	1.25	84.0	85.5	85.5	0.50	0.63	0.71
5	3.7	3500	182/4T	11.8	5.90	4.72	8.7	270%	390%	25	88.2	69	1.25	86.5	88.5	88.5	0.76	0.85	0.89
		1755	182/4T	12.9	6.45	5.16	7.5	230%	320%	15	94.8	56	1.25	88.5	89.5	89.5	0.62	0.74	0.80
		1160	213/5T	13.7	6.83	5.46	6.6	190%	240%	57	162	55	1.25	88.5	89.5	89.5	0.58	0.70	0.76
		880	254/6T	15.2	7.58	6.06	5.3	190%	250%	44	258	54	1.25	85.5	87.5	87.5	0.49	0.62	0.70
7.5	5.5	3520	213/5T	17.6	8.78	7.02	7.2	210%	300%	27	139	72	1.25	87.5	89.5	89.5	0.75	0.84	0.88
		1765	213/5T	18.0	9.00	7.20	7.1	220%	310%	20	154	58	1.25	89.5	91.0	91.7	0.67	0.78	0.84
		1175	254/6T	19.0	9.48	7.58	6.6	230%	280%	34	276	59	1.25	89.5	90.2	91.0	0.63	0.74	0.80
		880	254/6T	22.2	11.1	8.88	5.3	200%	250%	33	284	54	1.25	85.5	87.5	87.5	0.50	0.63	0.71
10	7.5	3515	213/5T	23.2	11.6	9.28	7.2	220%	290%	24	163	72	1.25	89.5	90.2	90.2	0.79	0.87	0.90
		1760	213/5T	24.8	12.4	9.92	6.4	200%	300%	17	172	58	1.25	90.2	91.7	91.7	0.66	0.77	0.83
		1175	254/6T	25.8	12.9	10.3	6.5	230%	280%	27	290	59	1.25	90.2	91.0	91.0	0.63	0.74	0.80
		880	284/6T	26.8	13.4	10.7	5.6	200%	240%	32	373	54	1.25	89.5	90.2	90.2	0.61	0.72	0.78
15	11	3530	254/6T	34.0	17.0	13.6	6.4	220%	260%	25	258	72	1.25	89.5	91.0	91.0	0.79	0.86	0.89
		1765	254/6T	36.0	18.0	14.4	6.3	230%	270%	20	265	64	1.25	91.0	91.7	92.4	0.68	0.78	0.83
		1175	284/6T	35.8	17.9	14.3	6.5	230%	270%	20	379	59	1.25	91.0	91.7	91.7	0.69	0.80	0.84
		880	284/6T	38.8	19.4	15.5	5.5	200%	230%	25	417	54	1.25	90.2	91.0	90.2	0.62	0.73	0.79
20	15	3520	254/6T	46.4	23.2	18.6	6.4	210%	240%	21	282	72	1.25	91.0	91.7	91.0	0.82	0.87	0.89
		1765	254/6T	48.2	24.1	19.3	6.3	230%	270%	17	298	64	1.25	91.7	92.4	93.0	0.69	0.79	0.84
		1175	284/6T	48.4	24.2	19.4	6.4	230%	260%	16	426	59	1.25	91.0	91.7	91.7	0.70	0.80	0.85
		880	324/6T	56.6	28.3	22.6	5.0	190%	220%	27	452	56	1.25	89.5	91.0	91.0	0.54	0.66	0.73
25	18.5	3535	284/6TS	57.0	28.5	22.8	6.3	200%	250%	17	362	72	1.25	91.0	91.7	91.7	0.82	0.87	0.89
		1765	284/6T	59.0	29.5	23.6	6.4	240%	270%	24	388	64	1.25	92.4	93.0	93.6	0.70	0.80	0.84
		1180	324/6T	60.8	30.4	24.3	6.2	210%	260%	26	560	62	1.25	91.7	93.0	93.0	0.65	0.77	0.82
		880	324/6T	71.8	35.9	28.7	5.2	200%	230%	23	509	56	1.25	89.5	91.0	91.0	0.51	0.64	0.71
30	22	3535	284/6TS	67.6	33.8	27.0	6.3	200%	250%	15	392	72	1.25	91.7	91.7	91.7	0.82	0.87	0.89
		1765	284/6T	70.2	35.1	28.1	6.4	240%	270%	20	437	64	1.25	93.0	93.0	93.6	0.70	0.80	0.84
		1180	324/6T	71.6	35.8	28.6	6.2	230%	260%	21	553	62	1.25	91.7	93.0	93.0	0.65	0.77	0.83
		880	364/5T	74.0	37.0	29.6	6.2	170%	240%	20	803	60	1.25	92.4	92.4	92.4	0.63	0.74	0.80
40	30	3555	324/6TS	91.6	45.8	36.6	6.4	230%	240%	22	547	74	1.25	91.7	92.4	92.4	0.82	0.87	0.89
		1775	324/6T	96.4	48.2	38.6	6.4	220%	260%	20	492	66	1.25	93.0	94.1	94.1	0.67	0.78	0.83
		1180	364/5T	93.0	46.5	37.2	6.4	200%	240%	21	833	64	1.25	93.6	93.6	94.1	0.73	0.82	0.86
		880	364/5T	100	50.0	40.0	6.0	170%	230%	18	875	60	1.25	92.4	93.0	92.4	0.66	0.76	0.81
50	37	3550	324/6TS	112	56.1	44.9	6.2	220%	230%	23	584	74	1.25	93.0	93.0	93.0	0.83	0.87	0.89
		1775	324/6T	118	59.2	47.4	6.5	230%	270%	15	536	66	1.25	93.0	94.1	94.5	0.66	0.77	0.83
		1180	364/5T	115	57.4	45.9	6.4	200%	240%	18	869	64	1.25	93.6	94.1	94.1	0.74	0.83	0.86
		880	404/5T	120	60.0	48.0	6.5	170%	260%	15	1012	60	1.25	93.0	93.0	93.0	0.68	0.78	0.83
60	45	3560	364/5TS	134	67.0	53.6	6.6	200%	260%	14	825	79	1.25	91.7	93.0	93.6	0.81	0.88	0.90
		1775	364/5T	137	68.3	54.6	6.6	240%	260%	15	869	67	1.25	94.1	94.5	95.0	0.75	0.83	0.87
		1180	404/5T	139	69.5	55.6	6.4	200%	230%	20	1036	64	1.25	94.1	94.5	94.5	0.74	0.82	0.86
		880	404/5T	146	73.0	58.4	6.5	180%	270%	13	1111	60	1.25	93.0	93.0	93.0	0.68	0.78	0.83
75	55	3555	364/5TS	164	81.9	65.5	6.6	200%	260%	10	847	79	1.25	92.4	93.6	93.6	0.83	0.88	0.90
		1775	364/5T	168	84.1	67.3	6.6	240%	260%	14	919	67	1.25	94.5	95.0	95.4	0.73	0.82	0.86
		1180	404/5T	170	84.9	67.9	6.4	200%	230%	17	1089	64	1.25	94.1	94.5	94.5	0.74	0.83	0.86
		890	444/5T	186	93.0	74.4	6.0	180%	210%	18	1444	63	1.25	93.0	93.6	93.6	0.64	0.74	0.79
100	75	3555	404/5TS	220	110	88.0	6.5	200%	240%	14	1045	79	1.25	93.0	94.1	94.1	0.85	0.90	0.91
		1775	404/5T	222	111	88.8	6.6	240%	260%	13	1140	68	1.25	95.0	95.0	95.4	0.78	0.86	0.89
		1185	444/5T	242	121	96.8	6.4	220%	260%	20	1577	69	1.25	94.5	95.0	95.0	0.68	0.78	0.82
		890	444/5T	254	127	102	6.0	190%	220%	15	1599	63	1.25	93.6	94.1	94.1	0.63	0.74	0.79
125	90	3570	444/5TS	268	134	107	6.5	200%	250%	29	1599	81.0	1.15	93.6	94.5	95.0	0.82	0.87	0.89
		1780	444/5T	278	139	111	6.5	200%	250%	27	1590	73.0	1.15	95.0	95.4	95.4	0.74	0.82	0.85
		1185	444/5T	286	143	114	6.4	210%	240%	19	1751	69.0	1.15	95.0	95.4	95.0	0.70	0.79	0.83
		890	504/5T	298	149	119	5.8	180%	200%	23	2110	66.0	1.15	94.5	94.5	94.5	0.66	0.76	0.80
		890	445/7T	302	151	121	6.0	180%	210%	17	1887	63.0	1.15	94.5	94.5	94.5	0.64	0.74	0.79

W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - 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				
150	3600	444/5TS	$18,222	$19,354	$19,548	HT150X02NPBBW22	161	129	95.0	1709	41.443	2.375
	1800	444/5T	$15,335	$16,467	$16,632	HT150X04NPBBW22	170	136	95.8	1676	45.193	3.375
	1200	504/5T	$18,935	$20,067	$20,268	HT150X06NPBBW22	176	141	95.8	2249	54.095	3.625
	1200	445/7T	$18,935	$20,067	$20,268	HT150X06NPBBW22447T	176	141	95.8	2042	49.051	3.375
	900	504/5T	$30,725	$31,857	$32,175	HT150X08NPBBW22	180	144	94.5	2293	54.095	3.625
	900	445/7T	$30,725	$31,857	$32,175	HT150X08NPBBW22447T	185	148	94.5	2042	49.051	3.375
200	3600	504/5TS	$23,192	$24,324	$24,567	HT200X02NPBBW22505TS	222	178	95.4	2168	48.125	2.375
	3600	445/7TS	$23,192	$24,324	$24,567	HT200X02NPBBW22447TS	219	175	95.4	1914	45.301	2.375
	1800	444/5T	$18,831	$19,963	$20,163	HT200X04NPBBW22445T	230	184	96.2	2095	45.157	3.375
	1800	504/5T	$19,854	$20,986	$21,196	HT200X04NPBBW22504T	228	182	96.2	2273	54.095	3.625
	1800	445/7T	$18,831	$19,963	$20,163	HT200X04NPBBW22447T	230	184	96.2	1899	49.051	3.375
	1200	504/5T	$24,129	$25,261	$25,514	HT200X06NPBBW22505T	237	190	95.8	2459	54.095	3.625
	1200	445/7T	$24,129	$25,261	$25,514	HT200X06NPBBW22447T	237	190	95.8	2247	49.051	3.375
	900	447/9T	$36,106	$37,805	$38,183	HT200X08NPBBW22449T	254	203	95.0	2509	56.338	3.375
	900	586/7T	$43,990	$46,934	$47,403	HT200X08NPBBW22587T	247	198	95.4	3334	61.704	3.875
250	3600	504/5TS	$26,540	$27,672	$27,949	HT250X02NPBBW22505TS	269	215	95.8	2388	48.215	2.375
	3600	445/7TS	$26,223	$27,355	$27,629	HT250X02NPBBW22447TS	266	213	95.8	2159	45.301	2.375
	3600	447/9TS	$29,846	$31,544	$31,860	HT250X02NPBBW22449TS	266	213	95.8	2159	52.588	2.375
	1800	504/5T	$24,525	$25,657	$25,914	HT250X04NPBBW22505T	277	222	96.2	2450	54.095	3.625
	1800	445/7T	$24,525	$25,657	$25,914	HT250X04NPBBW22447T	281	225	96.2	2079	49.051	3.375
	1800	447/9T	$27,469	$29,167	$29,458	HT250X04NPBBW22449T	281	225	96.2	2079	56.338	3.375
	1200	447/9T	$31,243	$32,941	$33,271	HT250X06NPBBW22449T	292	234	95.8	2538	56.338	3.375
	1200	586/7T	$38,789	$41,733	$42,150	HT250X06NPBBW22587T	299	239	95.8	3206	61.704	3.875
	900	L447/9T	$42,503	$44,201	$44,643	HT250X08NPBBW22L449T	308	246	95.4	3550	57.181	3.375
	900	586/7T	$48,847	$51,790	$52,308	HT250X08NPBBW22587T	299	239	95.8	3649	61.704	3.875
300	3600	447/9TS	$36,188	$37,886	$38,265	HT300X02NPBBW22449TS	320	256	95.8	2545	52.588	2.375
	3600	586/7TS	$41,520	$44,463	$44,908	HT300X02NPBBW22587TS	317	254	95.8	3382	54.829	2.375
	1800	447/9T	$30,079	$31,777	$32,095	HT300X04NPBBW22449T	330	264	96.2	2381	56.338	3.375
	1800	586/7T	$35,386	$38,330	$38,713	HT300X04NPBBW22587T	334	267	96.2	3080	61.704	3.875
	1200	447/9T	$33,908	$35,606	$35,962	HT300X06NPBBW22449T	347	278	95.8	2613	56.338	3.375
	1200	586/7T	$44,445	$47,389	$47,863	HT300X06NPBBW22587T	356	285	95.8	3495	61.704	3.875
	900	L447/9T	$48,048	$49,746	$50,243	HT300X08NPBBW22L449T	371	297	95.4	3704	57.181	3.375
	900	586/7T	$56,026	$58,970	$59,560	HT300X08NPBBW22587T	356	285	95.8	4035	61.704	3.875
350	3600	447/9TS	$39,457	$41,155	$41,567	HT350X02NPBBW22449TS	377	302	96.2	2701	52.588	2.375
	3600	586/7TS	$46,820	$49,764	$50,261	HT350X02NPBBW22587TS	373	298	96.2	3621	54.829	2.375
	1800	447/9T	$33,410	$35,108	$35,459	HT350X04NPBBW22449T	394	315	96.2	2675	56.338	3.375
	1800	586/7T	$41,203	$44,146	$44,588	HT350X04NPBBW22587T	394	315	96.2	2675	61.704	3.875
	1200	L447/9T	$43,397	$45,095	$45,546	HT350X06NPBBW22L449T	404	323	96.2	3574	57.181	3.375
	1200	586/7T	$48,421	$51,365	$51,878	HT350X06NPBBW22587T	421	337	95.8	3784	61.704	3.875
	900	586/7T	$56,629	$59,572	$60,168	HT350X08NPBBW22	426	341	95.8	4309	54.829	3.875
400	3600	L447/9TS	$45,693	$47,391	$47,865	HT400X02NPW22L449TS	432	346	95.8	3158	53.431	2.375
	3600	586/7TS	$50,425	$53,368	$53,902	HT400X02NPBBW22587TS	430	344	96.2	3749	54.829	2.375
	1800	L447/9T	$40,429	$42,127	$42,548	HT400X04NPBBW22L449T	455	364	96.2	3285	57.181	3.375
	1800	586/7T	$47,312	$50,255	$50,758	HT400X04NPBBW22587T	455	364	96.2	3455	61.704	3.875
	1200	L447/9T	$48,403	$50,101	$50,602	HT400X06NPBBW22L449T	477	382	96.2	3682	57.181	3.375
	1200	586/7T	$52,177	$55,121	$55,672	HT400X06NPBBW22587T	483	386	96.2	4115	61.704	3.875
	900	588/9T	$58,236	$61,180	$61,791	HT400X08NPBBW22	498	398	95.7	4851	69.381	3.875
450	3600	L447/9TS	$46,757	$48,455	$48,940	HT450X02NPW22L449TS	475	380	95.8	3268	53.431	2.375
	3600	586/7TS	$52,947	$55,891	$56,449	HT450X02NPBBW22587TS	473	378	96.2	3918	54.829	2.375
	1800	L447/9T	$43,055	$44,753	$45,201	HT450X04NPBBW22L449T	504	401	96.2	3396	57.181	3.375
	1800	586/7T	$49,463	$52,406	$52,930	HT450X04NPBBW22587T	501	401	96.2	3640	61.704	3.875
	1200	586/7T	$54,806	$57,749	$58,327	HT450X06NPBBW22	532	426	96.2	4384	61.704	3.875
	900	588/9T	$62,058	$65,002	$65,652	HT450X08NPBBW22	540	432	95.8	5281	69.381	3.875
500	3600	586/7TS	$55,594	$58,537	$59,123	HT500X02NPBBW22	530	424	96.2	4086	54.829	2.375
	1800	L447/9T	$45,374	$47,072	$47,542	HT500X04NPBBW22L449T	561	449	96.2	3462	57.181	3.375
	1800	586/7T	$52,134	$55,078	$55,629	HT500X04NPBBW22587T	555	444	96.2	3912	61.704	3.875
	1200	586/7T	$62,294	$65,237	$65,889	HT500X06NPBBW22	603	482	96.2	4403	61.704	3.875
	3600	588/9TS	$54,448	$57,392	$57,966	HT550X02NPBBW22	578	462	96.5	4410	62.506	2.375
	1800	586/7T	$52,656	$55,599	$56,155	HT550X04NPBBW22	605	484	96.5	4335	61.902	3.875
	1200	588/9T	$63,539	$66,483	$67,148	HT550X06NPBBW22	661	529	96.1	4734	69.381	3.875
550	3600	588/9TS	$54,448	$57,392	$57,966	HT550X02NPBBW22	578	462	96.5	4410	62.506	2.375
	1800	586/7T	$52,656	$55,599	$56,155	HT550X04NPBBW22	605	484	96.5	4335	61.902	3.875
	1200	588/9T	$63,539	$66,483	$67,148	HT550X06NPBBW22	661	529	96.1	4734	69.381	3.875
600	3600	588/9TS	$55,662	$58,605	$59,191	HT600X02NPBBW22	650	520	96.5	4410	62.506	2.375
	1800	586/7T	$55,506	$58,449	$59,034	HT600X04NPBBW22	665	532	96.5	4335	61.704	3.875
	1200	588/9T	$66,346	$69,290	$69,983	HT600X06NPBBW22	743	594	96.2	5173	69.381	3.875
650	3600	588/9TS	$58,979	$61,922	$62,541	HT650X02NPBBW22	685	548	96.6	4635	62.506	2.375
	1800	588/9T	$58,771	$61,714	$62,331	HT650X04NPBBW22	734	587	96.6	4395	69.381	3.875
700	3600	588/9TS	$61,592	$64,535	$65,180	HT700X02NPBBW22	736	589	96.6	4805	62.506	2.375
	1800	588/9T	$60,516	$63,460	$64,094	HT700X04NPBBW22	788	630	96.6	4584	69.381	3.875
750	1800	588/9T	$62,672	$65,615	$66,271	HT750X04NPBBW22	840	672	96.7	4952	69.381	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

Bearings: Replace 'BB' with 'RB' for Rollers Bearings on frame 404/5T and up

W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty - 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	$455	$546	$551	HT000X02NPW22	1.43	1.14	78.5	36.4	12.346	0.875
	1800	143/5T	$410	$500	$505	HT000X04NPW22	1.39	1.11	85.5	40.8	12.346	0.875
	1200	143/5T	$505	$595	$601	HT000X06NPW22	1.73	1.38	82.5	52.9	13.346	0.875
	900	182/4T	$942	$1,055	$1,066	HT000X08NPW22	2.30	1.84	78.5	94.8	14.86	1.125
1.5	3600	143/5T	$469	$559	$565	HT001X02NPW22	1.90	1.52	84.0	40.8	12.346	0.875
	1800	143/5T	$457	$548	$553	HT001X04NPW22	1.97	1.58	86.5	48.5	13.346	0.875
	1200	182/4T	$602	$715	$723	HT001X06NPW22	2.39	1.91	87.5	70.3	14.86	1.125
	900	182/4T	$1,107	$1,220	$1,233	HT001X08NPW22	2.70	2.16	82.5	111	15.86	1.125
2	3600	143/5T	$491	$582	$588	HT002X02NPW22	2.53	2.02	85.5	51.8	13.346	0.875
	1800	143/5T	$475	$566	$572	HT002X04NPW22	2.61	2.09	86.5	50.7	13.346	0.875
	1200	182/4T	$709	$822	$830	HT002X06NPW22	3.23	2.58	88.5	87.5	15.86	1.125
	900	213/5T	$1,390	$1,526	$1,541	HT002X08NPW22	3.39	2.71	85.5	149	18.021	1.375
3	3600	143/5T	$530	$620	$627	HT003X02NPW22145T	3.71	2.97	86.5	52.0	13.358	0.875
	3600	182/4T	$602	$715	$723	HT003X02NPW22	3.62	2.90	86.5	88.2	14.86	1.125
	1800	182/4T	$602	$715	$723	HT003X04NPW22	3.88	3.10	89.5	90.4	14.86	1.125
	1200	213/5T	$951	$1,087	$1,098	HT003X06NPW22	4.41	3.53	89.5	121	18.021	1.375
	900	213/5T	$1,642	$1,777	$1,795	HT003X08NPW22	4.56	3.65	85.5	176	19.517	1.375
5	3600	182/4T	$704	$817	$826	HT005X02NPW22	5.90	4.72	88.5	88.2	15.86	1.125
	1800	182/4T	$684	$797	$805	HT005X04NPW22	6.45	5.16	89.5	94.8	15.86	1.125
	1200	213/5T	$1,137	$1,272	$1,285	HT005X06NPW22	6.83	5.46	89.5	162	19.517	1.375
	900	254/6T	$2,735	$2,939	$2,968	HT005X08NPW22	7.58	6.06	87.5	258	23.213	1.625
7.5	3600	182/4T	$783	$897	$906	HT007X02NPW22184T	8.76	7.01	89.5	93	15.86	1.125
	3600	213/5T	$922	$1,057	$1,068	HT007X02NPW22	8.78	7.02	89.5	139	18.021	1.375
	1800	213/5T	$906	$1,042	$1,052	HT007X04NPW22	9.00	7.20	91.7	154	18.021	1.375
	1200	254/6T	$1,750	$1,954	$1,974	HT007X06NPW22	9.48	7.58	91.0	276	23.213	1.625
	900	254/6T	$2,751	$2,955	$2,984	HT007X08NPW22	11.1	8.88	87.5	284	24.945	1.625
10	3600	213/5T	$1,062	$1,198	$1,210	HT010X02NPW22	11.6	9.28	90.2	163	19.517	1.375
	1800	213/5T	$1,069	$1,205	$1,217	HT010X04NPW22	12.4	9.92	91.7	172	19.517	1.375
	1200	254/6T	$1,936	$2,140	$2,161	HT010X06NPW22	12.9	10.3	91.0	290	24.945	1.625
	900	284/6T	$3,480	$3,752	$3,789	HT010X08NPW22	13.4	10.7	90.2	373	26.433	1.875
15	3600	213/5T	$1,368	$1,503	$1,518	HT015X02NPW22215T	17.0	13.6	91	163	19.517	1.375
	3600	254/6T	$1,608	$1,811	$1,829	HT015X02NPW22	17.0	13.6	91.0	258	23.213	1.625
	1800	254/6T	$1,540	$1,743	$1,761	HT015X04NPW22	18.0	14.4	92.4	265	23.213	1.625
	1200	284/6T	$2,638	$2,909	$2,939	HT015X06NPW22	17.9	14.3	91.7	379	26.433	1.875
	900	284/6T	$4,005	$4,277	$4,320	HT015X08NPW22	19.4	15.5	90.2	417	27.929	1.875
20	3600	254/6T	$2,081	$2,285	$2,307	HT020X02NPW22	23.2	18.6	91.0	282	24.945	1.625
	1800	254/6T	$1,891	$2,094	$2,115	HT020X04NPW22	24.1	19.3	93.0	298	24.945	1.625
	1200	284/6T	$3,211	$3,482	$3,517	HT020X06NPW22	24.2	19.4	91.7	426	27.929	1.875
	900	324/6T	$4,648	$4,988	$5,038	HT020X08NPW22	28.3	22.6	91.0	452	29.62	2.125
25	3600	284/6TS	$2,728	$3,000	$3,030	HT025X02NPW22	28.5	22.8	91.7	362	25.061	1.625
	1800	284/6T	$2,380	$2,651	$2,678	HT025X04NPW22	29.5	23.6	93.6	388	26.433	1.875
	1200	324/6T	$4,182	$4,522	$4,567	HT025X06NPW22	30.4	24.3	93.0	560	29.62	2.125
	900	324/6T	$5,221	$5,561	$5,616	HT025X08NPW22	35.9	28.7	91.0	509	31.116	2.125
30	3600	284/6TS	$3,036	$3,308	$3,341	HT030X02NPW22	33.8	27.0	91.7	392	26.557	1.625
	1800	284/6T	$2,692	$2,964	$2,993	HT030X04NPW22	35.1	28.1	93.6	437	27.929	1.875
	1200	324/6T	$4,666	$5,006	$5,056	HT030X06NPW22	35.8	28.6	93.0	553	31.116	2.125
	900	364/5T	$8,527	$9,206	$9,298	HT030X08NPW22	37.0	29.6	92.4	803	34.251	2.375
40	3600	324/6TS	$4,048	$4,388	$4,432	HT040X02NPW22	45.8	36.6	92.4	547	28.12	1.875
	1800	324/6T	$3,824	$4,164	$4,205	HT040X04NPW22	48.2	38.6	94.1	492	29.62	2.125
	1200	364/5T	$6,598	$7,277	$7,350	HT040X06NPW22	46.5	37.2	94.1	833	34.251	2.375
	900	364/5T	$9,679	$10,358	$10,462	HT040X08NPW22	50.0	40.0	92.4	875	34.251	2.375
50	3600	324/6TS	$4,949	$5,289	$5,342	HT050X02NPW22	56.1	44.9	93.0	584	29.616	1.875
	1800	324/6T	$4,336	$4,675	$4,722	HT050X04NPW22	59.2	47.4	94.5	536	31.116	2.125
	1200	364/5T	$7,608	$8,287	$8,370	HT050X06NPW22	57.4	45.9	94.1	869	34.251	2.375
	900	404/5T	$11,817	$12,496	$12,621	HT050X08NPBBW22	60.0	48.0	93.0	1012	39.73	2.875
60	3600	364/5TS	$6,616	$7,295	$7,368	HT060X02NPW22	67.0	53.6	93.6	825	32.276	1.875
	1800	364/5T	$6,709	$7,388	$7,462	HT060X04NPW22	68.3	54.6	95.0	869	34.251	2.375
	1200	404/5T	$9,084	$9,763	$9,861	HT060X06NPBBW22	69.5	55.6	94.5	1036	39.73	2.875
	900	404/5T	$12,847	$13,526	$13,661	HT060X08NPBBW22	73.0	58.4	93.0	1111	39.73	2.875
75	3600	364/5TS	$8,500	$9,179	$9,271	HT075X02NPW22	81.9	65.5	93.6	847	32.276	1.875
	1800	364/5T	$8,011	$8,690	$8,777	HT075X04NPW22	84.1	67.3	95.4	919	34.251	2.375
	1200	404/5T	$9,858	$10,537	$10,643	HT075X06NPBBW22	84.9	67.9	94.5	1089	39.73	2.875
	900	444/5T	$16,827	$17,959	$18,139	HT075X08NPBBW22	93.0	74.4	93.6	1444	45.193	3.375
100	3600	404/5TS	$10,884	$11,563	$11,679	HT100X02NPW22	110	88.0	94.1	1045	36.732	2.125
	1800	404/5T	$9,924	$10,603	$10,709	HT100X04NPBBW22	111	88.8	95.4	1140	39.73	2.875
	1200	444/5T	$14,115	$15,247	$15,399	HT100X06NPBBW22	121	96.8	95.0	1577	45.193	3.375
	900	444/5T	$19,775	$20,907	$21,116	HT100X08NPBBW22	127	102	94,1	1599	45193	3.375
125	3600	444/5TS	$14,774	$15,906	$16,065	HT125X02NPW22	134	107	95.0	1599	41.443	2.375
	1800	444/5T	$13,238	$14,371	$14,514	HT125X04NPBBW22	139	111	95.4	1590	45.193	3.375
	1200	444/5T	$16,232	$17,364	$17,537	HT125X06NPBBW22	143	114	95.0	1751	45.193	3.375
	900	504/5T	$25,370	$26,502	$26,767	HT125X08NPBBW22505T	149	119	94.5	2110	54.095	3.625
	900	445/7T	$25,370	$26,502	$26,767	HT125X08NPBBW22447T	151	121	94.5	1887	49.051	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
Bearings: Replace 'BB' with 'RB' for Rollers Bearings on frame 404/5T and up

W22 NEMA Premium Efficiency Motors

TEFC - Severe Duty

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
- Sealing:
  - V’Ring sealing up to frame 324/6T.
  - WSeal® (double lipped V’Ring with a metallic cap) sealing on both endshields from frame 364/5T up to 504/5T
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 364/5T, 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.
- Insulated endbells from frame L447/9T and up
- NEMA design “B”
- Service Factor:
  - 1.25 up to 100HP
  - 1.15 from 125HP and up
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- Double Gasketed terminal box
- Re-configurable Terminal Box for frames 445/7T and up
- Stainless steel nameplate with laser etching
- Paint: Synthetic enamel alkyd resin base
- Paint Plan:
  - 207A - Frames 143T to 215T
  - 203A - Frames 254T to 588/9T
- Color: RAL 5009 - Blue
- Fitted with closed rubber drain breathers
- Regreasable bearings for frames 254/6T and up
- All frames have dual mounting

For Frame 586/7T and 588/9T

- Space heaters (220V)
- Taconite Labyrinth seal

Class I, Div 2, Groups A,B,C & D
Class II, Div 2, Groups F & G
Class I, Zone 2, IIC

Inverter Ratings				
Frames	Poles	Constant Torque	Variable Torque	VFD
143/5T - 586/7T ≤ 250HP	All	20:1	1000:1	Any
	All	1000:1*		WEG
447/9T - 588/9T > 250 HP	All	6:1		Any
	All	12:1*		WEG
* Can only be achieved by a WEG VFD running in Sensorless Vector See page 7.6 for details				

Optional Features

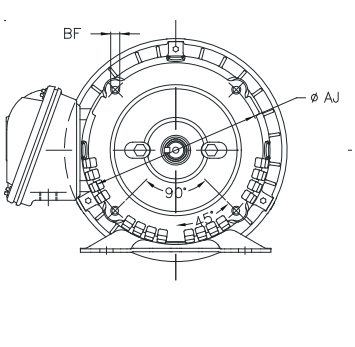
- 50Hz
- Special voltages
- Special shafts
- Space heaters (standard on 586/7T and 588/9T frames)
- Labyrinth taconite seal available for all ratings
- Thermostats, Thermistors, RTD’s (PT100)
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- NEMA C & D flanges and Metric flanges for all ratings
- Roller bearings
- Special paint
- Shaft grounding (Aegis or WEG). Not for Hazloc.
- Insulated bearings
- Insulated endbells (standard for frame L447/9T and up)
- Degree of protection: IP56, IP65, IP66
- Forced ventilation
- Encoders
- UL Listed fire pump duty
- No feet

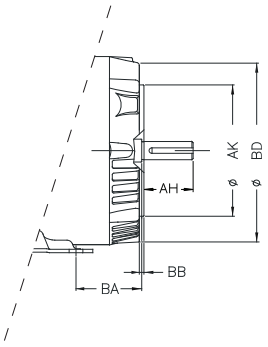
W01 Rolled Steel NEMA Premium Eff. Motors

TEFC - Mechanical Data

"C" Flange Dimensions							
Frame	BA	Flange					
		AJ	AK	BB	BD	BF	AH
143/5TC	2.750	5.874	4.500	0.157	6.028	UNC 3/8"x16	2.129
182/4TC	3.500	7.250	8.500	0.250	8.858	UNC 1/2"x13	2.620
213/5TC	4.309				9.401		3.129
254/6TC	4.750				11.084		3.750

Frame 143/5T





Frames 182/4T up to 254/6T