

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)
- 104°F (40°C) 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



**NEMA
Premium™**



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





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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
1.5	900	182/4T	\$1,338	\$1,542	\$1,558	IE000X08W22IS	2.30	1.84	78.5	95	15.86	1.125
	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
2	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
	3600	143/5T	\$811	\$961	\$971	IE002X02W22IS	2.56	2.05	85.5	51.8	13.346	0.875
3	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
5	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
7.5	900	213/5T	\$2,188	\$2,456	\$2,481	IE003X08W22IS	4.56	3.65	85.5	176	19.517	1.375
	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
10	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
	3600	213/5T	\$1,725	\$1,994	\$2,014	IE007X02W22IS	8.75	7.00	89.5	139	19.517	1.375
15	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
20	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
25	900	284/6T	\$4,739	\$5,147	\$5,199	IE010X08W22IS	13.4	10.7	90.2	373	27.929	1.875
	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
30	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
	3600	254/6T	\$2,699	\$3,044	\$3,074	IE020X02W22IS	23.2	18.6	91.0	269	24.945	1.625
40	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
50	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
60	900	324/6T	\$7,249	\$7,765	\$7,843	IE025X08W22IS	35.9	28.7	91.0	509	31.116	2.125
	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
75	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
	3600	324/6TS	\$4,974	\$5,479	\$5,534	IE040X02W22IS	45.8	36.6	92.4	547	29.616	1.875
100	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
150	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
200	900	404/5T	\$15,856	\$16,740	\$16,907	IE050X08W22IS	60.0	48.0	93.0	1012	39.73	2.875
	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
250	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
	3600	364/5TS	\$12,198	\$12,914	\$13,043	IE075X02W22IS	82.0	65.6	93.6	847	32.276	1.875
300	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
400	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
500	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



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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	IE200X02W22447TIS	219	175	95.4	1914	44.951	2.375
	3600	504/5TS	\$29,612	\$31,126	\$31,437	IE200X02W22505TIS	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
250	900	586/7T	\$60,679	\$63,321	\$63,955	IE200X08W22587TIS	247	198	95.4	3333	61.902	3.875
	3600	445/7TS	\$31,429	\$32,612	\$32,939	IE250X02W22447TIS	266	213	95.8	2158	44.951	2.375
	3600	504/5TS	\$31,429	\$32,943	\$33,272	IE250X02W22505TIS	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
300	900	586/7T	\$74,359	\$77,002	\$77,772	IE250X08W22587TIS	299	239	95.8	3649	61.902	3.875
	3600	447/9TS	\$37,891	\$40,155	\$40,556	IE300X02W22449TIS	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
	3600	L447/9TS	\$49,386	\$52,029	\$52,549	IE350X02W22449TIS	374	299	95.8	3470	57.181	3.375
350	3600	586/7TS	P.O.A	P.O.A	P.O.A	IE350X02W22587TIS	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	IE400X02W22L449TIS	432	346	95.8	3158	57.181	3.375
	3600	586/7TS	\$58,150	\$61,189	\$61,801	IE400X02W22587TIS	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	IE450X02W22L449TIS	475	380	95.8	3268	57.181	3.375
	3600	586/7TS	P.O.A	P.O.A	P.O.A	IE450X02W22587TIS	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	IE500X02W22587TIS	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

W22 IEEE 841-2009 Motors

TEFC - Severe Duty - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
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	93.0	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	94.5	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</				



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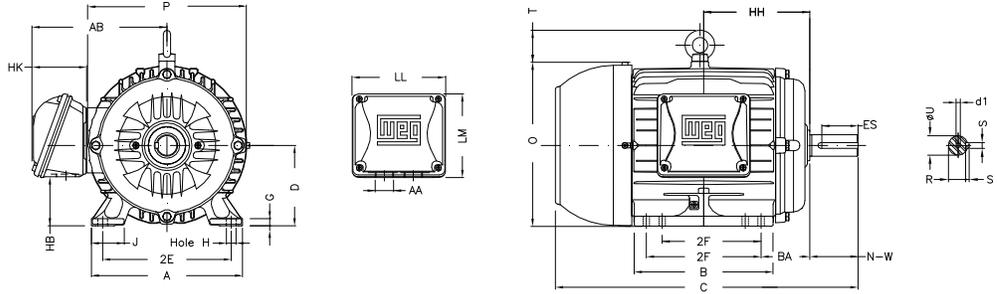
TEFC - Severe Duty - Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current (A)			Locked rotor current (l/l/n)	Locked rotor torque	Breakdown torque	Locked rotor time (s)	Weight (lb)	Noise level	Service Factor	Efficiency (%)			Power factor		
HP	kW			230V	460V	575V								50%	75%	100%	50%	75%	100%
150	110	3570	444/5TS	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
		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
250	185	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
		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
300	220	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
		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
350	260	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
		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
400	300	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
		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
500	370	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
		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

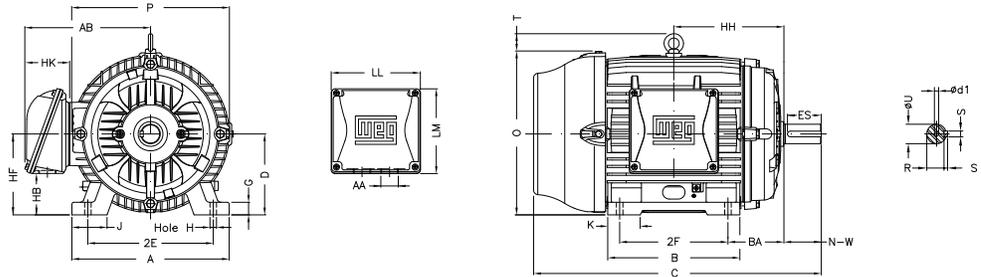
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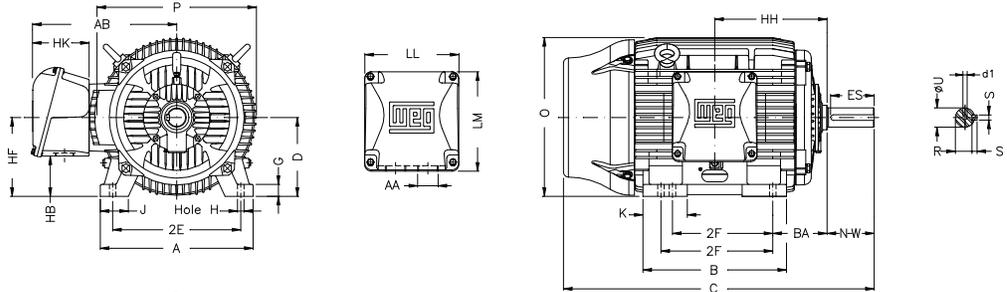
Frames 143T to 184T



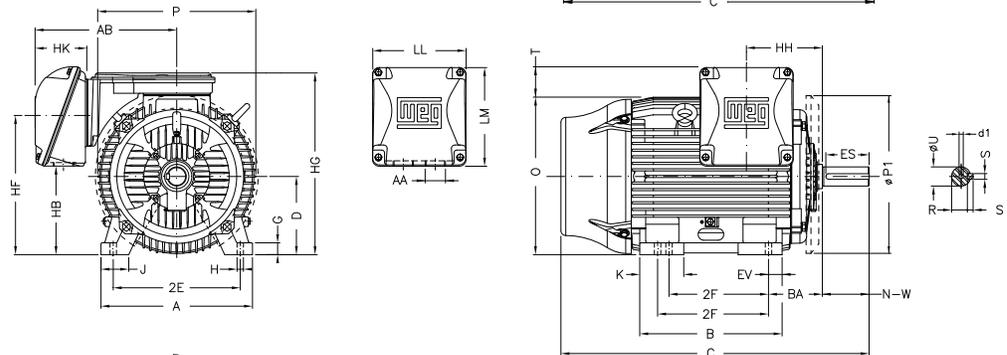
Frames 213T to 326T



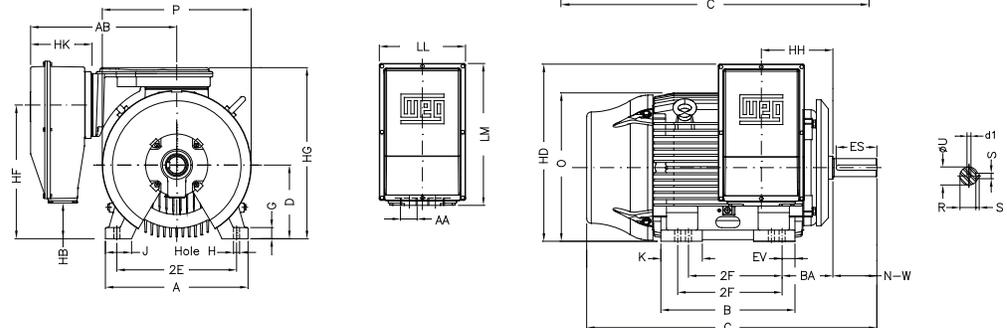
Frames 364 to 444/5T



Frames 445/7T to 586/7T



Frame 588/9T





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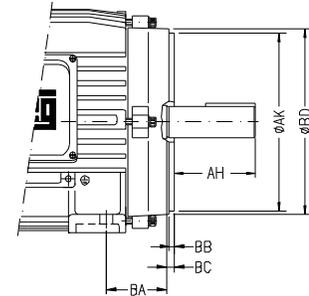
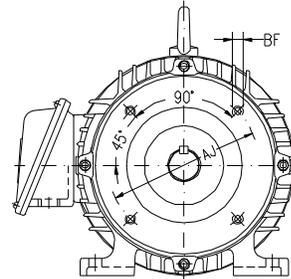
NEMA Frames	MOUNTING				A	B	C	D	G	J	O	K	P	T	KEYWAY			SHAFT EXTENSION	
	2E	2F	H	BA											S	R	ES	N-W	U
143/5T	5.500	5.000	0.344	2.250	6.457	6.142	13.346	3.500	0.354	1.437	7.122	-	7.047	-	0.187	0.765	1.575	2.250	0.875
182/4T	7.500	5.500	0.406	2.750	8.661	6.969	15.860	4.500	0.394	1.594	9.343	-	8.740	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		1.023	2.539	12.598	2.559	12.953	2.087	0.375	1.406	2.756	4.000
284/6TS	11.000	11.000		4.750	13.780	13.071	26.557	7.000	8.000		1.300	3.110	14.067	2.874		14.173	0.375	1.406	2.480
284/6T	12.500	12.000	0.657	5.250	15.157	14.567	29.616			8.000					1.300		3.189	15.953	3.189
324/6TS							29.729	9.000	1.480		3.150	17.957	4.921	17.914		0.625			
324/6T	31.116	10.000	1.811	19.566	5.669	19.134	0.500			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
364/5T	15.984	12.244 / 13.740	0.810	6.625	19.921	18.386	34.251	10.000	1.811	19.566	5.669	19.134	-	0.500	1.591		1.968	3.748	
404/5TS							44.950									14.500 / 16.500			7.500
404/5T	44.950	16.500 / 20.000	0.810	7.500	21.929	23.897	44.951	1.654	4.331	6.692	23.583	-	0.625	2.021	3.000		4.750	2.375	
444/5TS	18.000															20.000 / 25.000			0.810
444/5T		48.701	20.000 / 25.000	0.810	7.500	21.929	31.535	57.181	1.630	4.331	6.692	23.583	-	0.625	2.021		3.000	4.750	
445/7TS	48.701	20.000 / 25.000														0.810			7.500
445/7T	48.701		20.000 / 25.000	0.810	7.500	21.929	31.535	62.506	1.630	4.331	6.692	23.583	-	0.625	2.021		3.000	4.750	
447/9TS	55.027	20.000 / 25.000														0.810			7.500
447/9T	55.027		20.000 / 25.000	0.810	7.500	21.929	31.535	62.506	1.630	4.331	6.692	23.583	-	0.625	2.021		3.000	4.750	
L447/9TS	57.181	20.000 / 25.000														0.810			7.500
L447/9T	57.181		20.000 / 25.000	0.810	7.500	21.929	31.535	62.506	1.630	4.331	6.692	23.583	-	0.625	2.021		3.000	4.750	
504/5TS	20.000	16.000 / 18.000														1.250			8.500
504/5T	23.000	22.000 / 25.000	1.181	10.000	29.528	29.921	54.095	14.500	2.492	5.512	28.985	12.795	28.977	5.590	0.875	3.134	8.661	10.630	3.625
586/7TS							61.902												
586/7T	61.902	28.000 / 32.000	1.181	10.000	29.528	37.980	61.902	14.500	2.492	5.512	28.985	12.795	28.977	5.590	1.000	3.312	8.661	11.625	3.875
588/9TS	69.381																		
588/9T	69.381	28.000 / 32.000	1.181	10.000	29.528	37.980	69.381	14.500	2.492	5.512	28.985	12.795	28.977	8.464	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	3.110	5.512	5.236	NPT1"		6308	6207				
254/6T	10.394	3.061	6.565		9.250	3.110	5.512	5.236	NPT1"		6309 C3	6209 C3				
284/6TS	10.984	3.535	7.000		10.250	3.937	7.795	7.402	NPT1 1/2"		6311 C3	6211 C3				
284/6T	10.984	3.535	7.000		10.250	3.937	7.795	7.402	NPT1 1/2"		6311 C3	6211 C3				
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		11.250	4.645	8.976	8.543	NPT 2"		6312 C3	6212 C3				
364/5TS	16.378	4.055	-		12.362	6.378	9.646	10.119	NPT 3"		6314 C3	6314 C3				
364/5T		5.040			14.213	6.378	9.646	10.119	NPT 3"		6316 C3					
404/5TS	18.386	5.394		-	15.748	5.787	11.811	11.890	2xNPT 3"	6319 C3	6316 C3					
404/5T										6314 C3	6314 C3					
444/5TS	20.670	12.598			-	20.724	26.850	11.803		6.968	14.646	15.040	6319 C3	6316 C3		
444/5T													6314 C3	6314 C3		
445/7TS	23.071	11.417				-	28.236	11.500		8.464	15.906	17.244	2xNPT 3"	6314 C3	6314 C3	
445/7T														6314 C3	6314 C3	
447/9TS	20.670	15.275					-	29.409		10.394	6.968	14.646	15.040	2xNPT 3"	6314 C3	6314 C3
447/9T															6314 C3	6314 C3
L447/9TS	27.600	6.063	-					33.346		13.386	12.519 (side mounted) / 13.977 (top mounted)	17.441	28.740	2xNPT 3"	6314 C3	6314 C3
L447/9T															6314 C3	6314 C3
504/5TS	23.977	17.322		-				33.346	13.386	12.519 (side mounted) / 13.977 (top mounted)	17.441	28.740	2xNPT 3"	6314 C3	6314 C3	
504/5T														6314 C3	6314 C3	
586/7TS	27.600	6.063			-			33.346	13.386	12.519 (side mounted) / 13.977 (top mounted)	17.441	28.740	2xNPT 3"	6314 C3	6314 C3	
586/7T														6314 C3	6314 C3	
588/9TS	27.600	6.063				-		33.346	13.386	12.519 (side mounted) / 13.977 (top mounted)	17.441	28.740	2xNPT 3"	6314 C3	6314 C3	
588/9T														6314 C3	6314 C3	

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"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					UNC 1/2"x13			2.625
213/5TC	3.500	7.250	8.500	8.875					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			13.583					5.000
324/6TSC									3.500
364/5TC	5.875	11.000	12.500						5.625
364/5TSC				15.551					3.500
404/5TC	6.625				8	UNC 5/8"x11	0.250	0.250	7.000
404/5TSC									4.000
444/5TC									8.250
444/5TSC									4.500
445/7TC	7.500	14.000	16.000						8.250
445/7TSC									4.500
447/9TC				17.913					8.250
447/9TSC									4.500
504/5TC	8.500								10.375
504/5TSC									4.500
586/7TC		14.500	16.500		11.375				
586/7TSC					4.500				
588/9TC	10.000				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			
284/6TD	4.750						
284/6TSD							
324/6TD	5.250	16.000	14.000	18.000	8	0.828	0.250
324/6TSD							
364/5TD	5.875						
364/5TSD		20.000	18.000	22.000			
404/5TD	6.625						
404/5TSD							
444/5TD		7.500	21.653	21.653	8	0.828	0.250
444/5TSD							
445/7TD							
445/7TSD		30.000	28.000	32.000			
447/9TD							
447/9TSD							
504/5TD	8.500	22.000	18.000	24.803	8	0.828	0.250
504/5TSD							
586/7TD							
586/7TSD		30.000	28.000	32.000			
588/9TD	10.000						
588/9TSD							

