

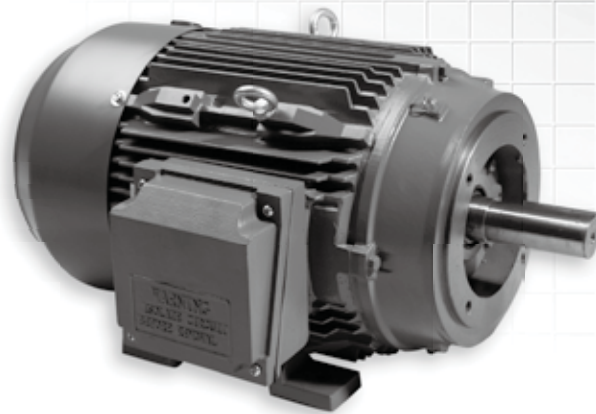
# TFC Series NEMA EPACT & Premium Efficiency 3-Phase Motors

## 1HP thru 200 HP Cast Iron TEFC

- **143T thru 447T**
- **143TC thru 447TC**

### FEATURES

- 208–230/460V/60Hz or 575V/60Hz
- NEMA Service Factor 1.15/1.25
- Continuous Duty 40°C Ambient
- TEFC (Totally Enclosed Fan Cooled)
- Class F Insulation With Class B Temp Rise
- Cast Iron frames
- NEMA Design B or C
- Ball Bearings
- IP55 Protection
- Up to 445T Available with Integral or Removable Feet

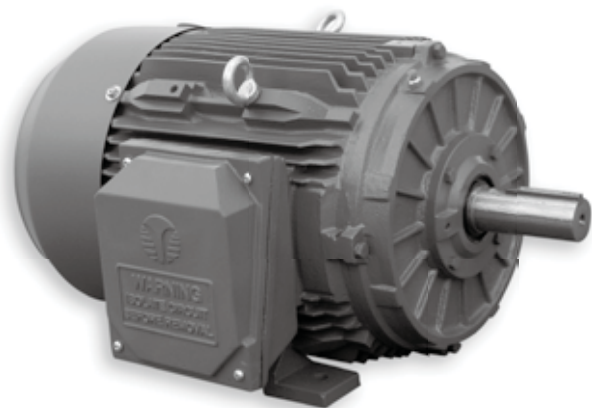


### APPLICATIONS

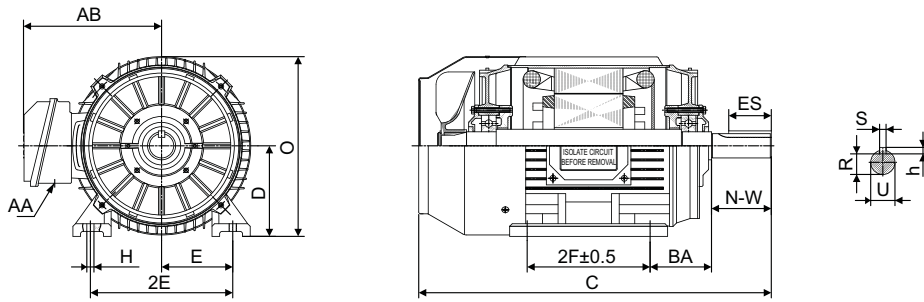
- Pumps
- Compressors
- Fans
- Machine Tools
- Energy saving applications
- Other General Purpose Three Phase Applications

### APPLICATIONS(Design C)

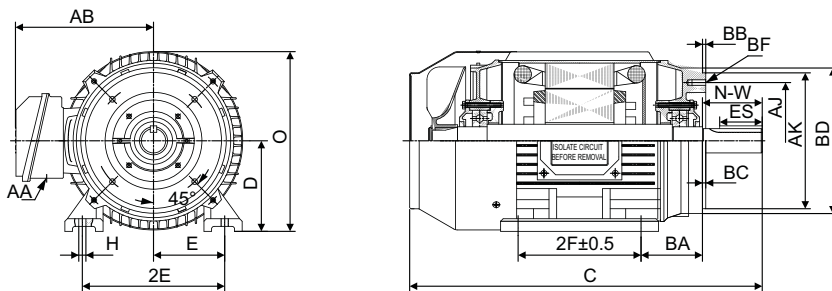
- Conveyors
- Gear Reducers
- Applications Requiring Design C Torque



# NEMA EPACT & Premium Efficiency 3-Phase Cast Iron TEFC Motors



Foot Mounted **Figure 1**



C-Face, Foot Mounted **Figure 2**

## Overall & Installation Dimensions

Frame	Foot Mounting				Shaft				General						C-Face						
	2E	2F	H	BA	N-W	U	S	h	R	ES	C	D	O	AA	AB	AJ	AK	BB	BC	BD	BF
143T	5.5	4.0	0.34	2.25	2.25	0.875	0.188	0.188	0.771	1.41	13.0	3.5	7.02	3/4	5.90	—	—	—	—	—	—
145T		5.0		2.75							14.0										
143TC		4.0		2.75							13.0										
145TC		5.0		2.75							14.0										
182T	7.5	4.5	0.41	2.75	2.75	1.125	0.25	0.25	0.986	1.78	16.54	4.5	8.9	3/4	7.03	—	—	—	—	—	—
184T		5.5		2.75							16.54										
182TC		4.5		3.5							16.54										
184TC		5.5		3.5							16.54										
213T	8.5	5.5	0.41	3.50	3.38	1.375	0.312	0.312	1.201	2.41	18.78	5.25	10.45	1	7.8	—	—	—	—	—	—
215T		7.0		4.25							20.28										
213TC		5.5		4.25							18.78										
215TC		7.0		4.25							20.28										
254T	10	8.25	0.53	4.25	4.0	1.625	0.375	0.375	1.416	2.91	24.00	6.25	12.44	1-1/4	9.96	—	—	—	—	—	—
256T		10		4.75							25.75										
254TC		8.25		4.75							24.00										
256TC		10		4.75							25.75										
284T	11	9.5	0.53	4.75	4.62	1.875	0.500	0.500	1.591	3.28	27.44	7.0	13.94	1-1/2	10.63	9.0	10.5	0.25	0.25	11.25	4*1/2-13
286T		11		4.62							28.94										
284TS		9.5		3.25							26.07										
286TS		11		3.25							27.57										
324T	12.5	10.5	0.66	5.25	5.25	2.125	0.500	0.500	1.845	3.91	31.30	8.0	15.94	2	12.88	11.0	12.5	0.25	0.25	14.0	4*5/8-11
326T		12		3.75							31.30										
324TS		10.5		3.75							29.8										
326TS		12		3.75							29.8										
364T	14	11.25	0.66	5.88	5.88	2.375	0.625	0.625	2.021	4.28	33.47	9.0	17.95	3	14.0	11.0	12.5	0.25	0.25	14.0	8*5/8-11
365T		12.25		3.75							34.45										
364TS		11.25		3.75							31.34										
365TS		12.25		3.75							32.32										
404T	16	12.25	0.81	6.62	7.25	2.875	0.750	0.750	2.450	5.65	38.19	10.0	19.85	3	15.13	11.0	12.5	0.25	0.25	15.5	8*5/8-11
405T		13.75		4.25							35.19										
404TS		12.25		4.25							35.19										
405TS		13.75		4.25							35.19										
444T	18	14.5	0.81	7.50	8.5	3.375	0.875	0.875	2.880	6.91	43.9	11.0	22.05	3	17.97	14.0	16.0	0.25	0.25	18.0	8*5/8-11
445T		16.5		4.75							40.15										
444TS		14.5		4.75							40.15										
445TS		16.5		4.75							40.15										
447T	18	20	0.81	7.50	8.5	3.375	0.875	0.875	2.880	6.91	52.4	11.0	22.05	3	17.97	14.0	16.0	0.25	0.25	18.0	8*5/8-11
449T		25		4.75							48.65										
447TS		20		4.75							48.65										
449TS		25		4.75							48.65										



# NEMA EPACT Efficiency TEFC Motors Technical Data—Design B

HP	Full Load Speed (r/min)	NEMA Frame	Conn	Code	Current at 460V		Torque			Efficiency Full Load (%)
					Full Load (A)	Locked Rotor (A)	Full Load LB-FT	Locked Rotor (%)	Break Down (%)	
1	3450	143T	2Y/Y	N	1.4	15	1.5	180	250	75.5
	1720	143T	2Y/Y	N	1.7	15	3.1	275	300	82.5
	1150	145T	2Y/Y	N	2.0	15	4.6	170	265	80.0
1.5	3450	143T	2Y/Y	M	2.1	20	2.2	175	250	82.5
	1720	145T	2Y/Y	M	2.4	20	4.5	250	280	84.0
	1150	182T	2Y/Y	M	2.6	20	6.8	165	250	85.5
2	3450	145T	2Y/Y	L	2.8	25	3.0	170	240	84.0
	1720	145T	2Y/Y	L	3.1	25	6.1	235	270	84.0
	1150	184T	2Y/Y	L	3.3	25	9.2	160	240	86.5
3	3450	182T	2Y/Y	K	4.0	32	4.5	160	230	85.5
	1720	182T	2Y/Y	K	4.3	32	9.0	215	250	87.5
	1150	213T	2Y/Y	K	4.7	32	13.5	155	230	87.5
5	3450	184T	2Y/Y	J	6.4	46	7.5	150	215	87.5
	1720	184T	2Y/Y	J	6.9	46	15.2	185	225	87.5
	1150	215T	2Y/Y	J	8.3	46	22.6	150	215	87.5
7.5	3450	213T	2Y/Y	H	9.4	64	11.2	140	200	88.5
	1720	213T	2Y/Y	H	9.9	64	22.5	175	215	89.5
	1150	254T	2Y/Y	H	11.2	64	33.8	150	205	89.5
10	3450	215T	2Y/Y	H	12.2	81	15.0	135	200	89.5
	1720	215T	2Y/Y	H	13.0	81	30.5	165	200	89.5
	1150	256T	2Y/Y	H	15.0	81	45.0	150	200	89.5
15	3450	254T	2Δ/Δ	G	18.4	116	22.5	130	200	90.2
	1720	254T	2Δ/Δ	G	19.7	116	45.4	160	200	91.0
	1150	284T	2Δ/Δ	G	20.3	116	66.8	140	200	90.2
20	3450	256T	2Δ/Δ	G	23.1	145	29.8	130	200	90.2
	1720	256T	2Δ/Δ	G	24.7	145	60.0	150	200	91.0
	1150	286T	2Δ/Δ	G	25.8	145	89.4	135	200	90.2
25	3450	284TS	2Δ/Δ	G	28.9	183	37.0	130	200	91.0
	1720	284T	2Δ/Δ	G	29.6	183	74.2	150	200	92.4
	1150	324T	2Δ/Δ	G	31.9	183	111.3	135	200	91.7
30	3450	286TS	2Δ/Δ	G	34.5	218	44.4	130	200	91.0
	1720	286T	2Δ/Δ	G	35.5	218	89.1	150	200	92.4
	1150	326T	2Δ/Δ	G	38.0	218	133.6	135	200	91.7
40	3450	324TS	2Δ/Δ	G	46.5	290	59.1	125	200	91.7
	1720	324T	2Δ/Δ	G	47.1	290	118.7	140	200	93.0
	1150	364T	2Δ/Δ	G	48.4	290	178.1	135	200	93.0
50	3450	326TS	2Δ/Δ	G	58.4	363	73.8	120	200	92.4
	1720	326T	2Δ/Δ	G	59.2	363	148.4	140	200	93.0
	1150	365T	2Δ/Δ	G	60.5	363	222.6	135	200	93.0
60	3450	364TS	2Δ/Δ	G	64.5	435	88.6	120	200	93.0
	1720	364T	2Δ/Δ	G	69.4	435	177.6	140	200	93.6
	1150	404T	2Δ/Δ	G	70.2	435	266.0	135	200	93.6
75	3450	365TS	2Δ/Δ	G	84.3	543	110.0	105	200	93.0
	1720	365T	2Δ/Δ	G	86.2	543	222.0	140	200	94.1
	1150	405T	2Δ/Δ	G	87.7	543	333.0	135	200	93.6
100	3450	405TS	2Δ/Δ	G	100.2	725	147.2	105	200	93.6
	1720	405T	2Δ/Δ	G	114.0	725	295.2	125	200	94.5
	1150	444T	2Δ/Δ	G	116.0	725	445.2	125	200	94.1
125	3450	444TS	2Δ/Δ	G	137.0	908	183.7	100	200	94.5
	1720	444T	2Δ/Δ	G	141.0	908	368.3	110	200	94.5
	1150	445T	2Δ/Δ	G	145.0	908	556.5	125	200	94.1
150	3450	445TS	2Δ/Δ	G	164.0	1085	220.4	100	200	94.5
	1720	445T	2Δ/Δ	G	169.0	1085	442.0	110	200	95.0
	1150	447T	2Δ/Δ	G	170.0	1085	668.0	120	200	95.0
200	3450	447TS	Δ	G	215.0	1450	294.0	100	200	95.0
	1720	447T	Δ	G	223.0	1450	589.3	100	200	95.0

# NEMA Premium Efficiency TEFC Motors Technical Data—Design B

HP	Full Load Speed (r/min)	NEMA Frame	Current			Eff. 100% FL	Power Factor (CosΦ)	Full Load Torque LB-FT	Locked Rotor		T <sub>st</sub> /T <sub>n</sub> (Times)	T <sub>min</sub> /T <sub>n</sub> (Times)	T <sub>max</sub> /T <sub>n</sub> (Times)	Service Factor
			I <sub>n1</sub> 460V (A)	I <sub>n</sub> 230V (A)	I <sub>n</sub> 460V (A)				KVA Code	I <sub>sc</sub> /I <sub>n</sub> (Times)				
1	3495	143T	0.71	2.99	1.53	77	0.80	1.51	L	7.5	2.7	2.1	2.8	1.25
	1705	143T	0.73	2.84	1.45	85.5	0.76	3.10	G	5.4	2.3	2.1	2.9	1.25
	1120	145T	0.76	2.94	1.50	82.5	0.76	4.72	J	6.2	2.2	2	2.7	1.25
1.5	3495	143T	0.66	3.70	1.89	84	0.89	2.27	K	8	2.7	2.1	2.9	1.25
	1710	145T	1.02	4.10	2.09	86.5	0.78	4.63	H	5.9	2.3	2.1	2.7	1.25
	1120	182T	0.94	3.95	2.02	87.5	0.80	7.07	H	6	2.3	2.1	2.6	1.25
2	3510	145T	0.77	4.74	2.42	85.5	0.91	3.01	J	8	2.3	2	2.7	1.25
	1710	145T	1.31	5.39	2.76	86.5	0.79	6.18	H	6.4	2.4	2	2.7	1.25
	1120	184T	1.14	5.08	2.59	88.5	0.82	9.43	G	5.8	2.3	2.1	2.7	1.25
3	3525	182T	1.07	6.95	3.55	86.5	0.92	4.50	K	8.5	2.6	2.1	2.7	1.25
	1710	182T	1.70	7.53	3.85	89.5	0.82	9.27	H	6.6	2.4	2.1	2.9	1.25
	1130	213T	1.83	7.72	3.94	89.5	0.80	14.02	H	6.4	2.3	2.1	2.9	1.25
5	3540	184T	1.63	11.19	5.72	88.5	0.93	7.46	J	8.5	2.5	2	2.7	1.25
	1715	184T	3.05	12.87	6.57	89.5	0.80	15.40	J	6.9	2.4	2	2.8	1.25
	1130	215T	2.72	12.40	6.34	89.5	0.83	23.37	H	6.3	2.4	2.2	2.8	1.25
7.5	3540	213T	2.42	16.60	8.48	89.5	0.93	11.19	J	8	2.4	2	2.9	1.25
	1715	213T	4.63	19.08	9.75	91.7	0.79	23.10	K	7.9	2.5	2	3	1.25
	1140	254T	3.85	18.08	9.24	91	0.84	34.74	G	6.2	2.5	2	2.8	1.15
10	3540	215T	3.20	21.97	11.22	90.2	0.93	14.92	J	8.5	2.7	2	2.8	1.25
	1720	215T	5.52	24.51	12.52	91.7	0.82	30.71	H	7.1	2.3	2	2.8	1.25
	1140	256T	5.57	24.69	12.62	91	0.82	46.32	H	6.8	2.3	1.9	2.8	1.15
15	3545	254T	5.42	33.38	17.05	91	0.91	22.35	K	9	2.2	2.1	3	1.15
	1720	254T	7.90	36.04	18.41	92.4	0.83	46.07	J	7.8	2.3	2	2.7	1.15
	1140	284T	7.64	35.88	18.33	91.7	0.84	69.49	H	7	2.4	1.9	2.7	1.15
20	3550	256T	7.22	44.50	22.74	91	0.91	29.76	J	8.5	2.3	2.1	3	1.15
	1730	256T	7.07	43.55	22.25	93	0.91	61.07	H	7.9	2.5	2.1	2.8	1.15
	1145	286T	9.75	47.28	24.15	91.7	0.85	92.24	H	7.3	2.5	2	2.8	1.15
25	3550	284TS	8.42	54.60	27.90	91.7	0.92	37.20	H	7.5	2.4	2.1	2.9	1.15
	1730	284T	8.25	53.50	27.33	93.6	0.92	76.34	H	7.8	2.4	2.1	2.9	1.15
	1145	324T	13.08	59.68	30.49	93	0.83	115.30	J	7.8	2.3	2.1	2.9	1.15
30	3550	286TS	9.45	64.82	33.11	91.7	0.93	44.64	H	7.5	2.3	2	2.8	1.15
	1730	286T	13.06	67.88	34.68	93.6	0.87	91.60	J	7.8	2.4	2.1	3	1.15
	1150	326T	14.42	69.93	35.73	93	0.85	137.76	J	7.8	2.4	2.1	3.2	1.15
40	3555	324TS	14.22	87.66	44.78	92.4	0.91	59.44	H	7.7	2.4	2	2.7	1.15
	1740	324T	15.65	88.01	44.96	94.1	0.89	121.43	H	7.5	2.3	2	3	1.15
	1150	364T	18.17	91.08	46.53	94.1	0.86	183.68	J	7.9	2.3	1.9	3.1	1.15
50	3555	326TS	17.66	108.87	55.62	93	0.91	74.30	H	7.6	2.3	2	2.7	1.15
	1740	326T	20.52	110.79	56.60	94.5	0.88	151.79	J	7.9	2.4	2	2.7	1.15
	1150	365T	23.76	115.19	58.85	94.1	0.85	229.61	J	7.9	2.2	1.9	2.7	1.15
60	3560	364TS	18.53	127.01	64.89	93.6	0.93	89.03	H	8	2.3	2	2.8	1.15
	1745	364T	34.48	145.47	74.32	95	0.80	181.63	H	6.7	2.4	2	2.7	1.15
	1150	404T	30.90	140.96	72.01	94.5	0.83	275.53	J	7.5	2.3	2.1	2.7	1.15
75	3560	365TS	23.16	158.76	81.11	93.6	0.93	111.29	H	8	2.3	1.9	2.7	1.15
	1745	365T	42.92	181.08	92.51	95.4	0.80	227.04	H	7	2.3	2	2.8	1.15
	1155	405T	33.92	170.05	86.87	94.5	0.86	342.92	H	7.2	2.3	2	2.8	1.15
100	3565	405TS	30.71	210.56	107.57	94.1	0.93	148.17	J	9	2.2	1.9	2.7	1.15
	1750	405T	40.65	219.49	112.13	95.4	0.88	301.85	H	7.4	2.4	1.9	2.7	1.15
	1160	444T	44.99	225.54	115.22	95	0.86	455.25	H	7.7	2.2	1.9	2.7	1.15
125	3565	444TS	38.03	260.70	133.19	95	0.93	185.22	H	8	2.2	1.9	2.6	1.15
	1755	444T	43.05	265.32	135.54	95.4	0.91	376.24	H	7.6	2.2	1.9	2.6	1.15
	1160	445T	51.03	275.52	140.75	95	0.88	569.07	H	7.5	2.1	1.9	2.6	1.15
150	3565	445TS	42.51	309.52	158.12	95	0.94	222.26	H	7.5	2.2	1.9	2.5	1.15
	1760	445T	48.35	313.61	160.21	95.8	0.92	450.20	H	7.7	2.2	1.9	2.6	1.15
	1165	447T	54.54	320.57	163.77	95.8	0.90	679.95	H	7.5	2.1	1.9	2.6	1.15
200	3564	447TS	56.44	410.96	209.95	95.4	0.94	296.43	G	7.5	2.2	1.9	2.6	1.15
	1760	447T	64.19	416.40	212.73	96.2	0.92	600.27	H	7.5	2.2	1.9	2.5	1.15



# NEMA EPACT Efficiency TEFC Motors Technical Data—Design C

HP	Full Load Speed (r/min)	NEMA Frame	Conn	Code	Current at 460V		Torque			Efficiency Full Load (%)
					Full Load (A)	Locked Rotor (A)	Full Load LB-FT	Locked Rotor (%)	Break Down (%)	
1	3450	143T	2Y/Y	N	1.4	15	1.5	245	225	74.0
	1720	143T	2Y/Y	N	1.7	15	3.1	285	200	73.0
	1150	145T	2Y/Y	N	2.0	15	4.6	255	225	72.0
1.5	3450	143T	2Y/Y	M	2.1	20	2.2	240	225	78.0
	1720	145T	2Y/Y	M	2.4	20	4.5	285	200	77.0
	1150	182T	2Y/Y	M	2.6	20	6.8	250	225	72.0
2	3450	145T	2Y/Y	L	2.8	25	3.0	240	225	79.0
	1720	145T	2Y/Y	L	3.1	25	6.1	285	200	78.5
	1150	184T	2Y/Y	L	3.3	25	9.2	250	225	78.5
3	3450	182T	2Y/Y	K	4.0	32	4.5	240	225	80.0
	1720	182T	2Y/Y	K	4.3	32	9.0	270	200	82.5
	1150	213T	2Y/Y	K	4.7	32	13.5	250	225	81.5
5	3450	184T	2Y/Y	J	6.4	46	7.5	240	200	82.0
	1720	184T	2Y/Y	J	6.9	46	15.2	255	200	82.5
	1150	215T	2Y/Y	J	8.3	46	22.6	250	200	82.5
7.5	3450	213T	2Y/Y	H	9.4	64	11.2	215	200	83.0
	1720	213T	2Y/Y	H	9.9	64	22.5	250	200	84.0
	1150	254T	2Y/Y	H	11.2	64	33.8	225	190	86.5
10	3450	215T	2Y/Y	H	12.2	81	15.0	215	190	84.0
	1720	215T	2Y/Y	H	13.0	81	30.5	250	200	84.0
	1150	256T	2Y/Y	H	15.0	81	45.0	225	190	86.5
15	3450	254T	2Δ/Δ	G	18.4	116	22.5	200	180	87.0
	1720	254T	2Δ/Δ	G	19.7	116	45.4	225	200	87.5
	1150	284T	2Δ/Δ	G	20.3	116	66.8	210	190	88.5
20	3450	256T	2Δ/Δ	G	23.1	145	29.8	180	180	86.5
	1720	256T	2Δ/Δ	G	24.7	145	60.0	200	200	87.5
	1150	286T	2Δ/Δ	G	25.8	145	89.4	200	190	88.5
25	3450	284TS	2Δ/Δ	G	28.9	183	37.2	200	190	89.5
	1720	284T	2Δ/Δ	G	29.6	183	74.2	200	190	89.5
	1150	324T	2Δ/Δ	G	31.9	183	111.3	200	190	89.5
30	3450	286TS	2Δ/Δ	G	34.5	218	44.4	200	190	91.0
	1720	286T	2Δ/Δ	G	35.5	218	89.1	200	190	91.0
	1150	326T	2Δ/Δ	G	38.0	218	133.6	200	190	91.0
40	3450	324TS	2Δ/Δ	G	46.5	290	59.1	200	190	90.2
	1720	324T	2Δ/Δ	G	47.1	290	118.7	200	190	91.0
	1150	364T	2Δ/Δ	G	48.4	290	178.1	200	190	91.0
50	3450	326TS	2Δ/Δ	G	58.4	363	73.8	200	190	91.0
	1720	326T	2Δ/Δ	G	59.2	363	148.4	200	190	91.7
	1150	365T	2Δ/Δ	G	60.5	363	222.6	200	190	91.0
60	3450	364TS	2Δ/Δ	G	64.5	435	88.6	200	190	91.7
	1720	364T	2Δ/Δ	G	69.4	435	177.6	200	190	91.7
	1150	404T	2Δ/Δ	G	70.2	435	266.0	200	190	91.7
75	3450	365TS	2Δ/Δ	G	84.3	543	110.0	200	190	91.7
	1720	365T	2Δ/Δ	G	86.2	543	222.0	200	190	92.4
	1150	405T	2Δ/Δ	G	87.7	543	333.0	200	190	91.7
100	3450	405TS	2Δ/Δ	G	100.2	725	147.2	200	190	91.8
	1720	405T	2Δ/Δ	G	114.0	725	295.2	200	190	92.4
	1150	444T	2Δ/Δ	G	116.0	725	445.2	200	190	91.7
125	3450	444TS	2Δ/Δ	G	137.0	908	183.7	200	190	92.4
	1720	444T	2Δ/Δ	G	141.0	908	368.3	200	190	92.4
	1150	445T	2Δ/Δ	G	145.0	908	556.5	200	190	92.4
150	3450	445TS	2Δ/Δ	G	164.0	1085	220.4	200	190	93.0
	1720	445T	2Δ/Δ	G	169.0	1085	442.0	200	190	93.0
	1150	447T	2Δ/Δ	G	170.0	1085	668.0	200	190	92.4
200	3450	447TS	Δ	G	215.0	1450	294.0	200	190	93.6
	1720	447T	Δ	G	223.0	1450	589.3	200	190	93.0



# NEMA EPACT Efficiency TEFC Motors Technical Data (575V) - Design B

HP	Full Load Speed (r/min)	NEMA Frame	Current			Eff. 100% FL	Power Factor (CosΦ)	Full Load Torque LB-FT	Locked Rotor		T <sub>st</sub> /T <sub>n</sub> (Times)	T <sub>min</sub> /T <sub>n</sub> (Times)	T <sub>max</sub> /T <sub>n</sub> (Times)	Service Factor
			Output (KW)	I <sub>l</sub> 575V (A)	I <sub>h</sub> 575V (A)				KVA Code	I <sub>sr</sub> /I <sub>n</sub> (Times)				
1	3495	143T	0.75	0.58	1.25	75.5	0.80	1.51	L	7.5	2.7	2.1	2.8	1.25
	1705	143T	0.75	0.61	1.20	82.5	0.76	3.10	H	5.4	2.3	2.1	2.9	1.25
	1120	145T	0.75	0.63	1.24	80	0.76	4.72	J	6.2	2.2	2	2.7	1.25
1.5	3495	143T	1.125	0.54	1.54	82.5	0.89	2.27	K	8	2.7	2.1	2.9	1.25
	1710	145T	1.125	0.84	1.72	84	0.78	4.63	H	5.9	2.3	2.1	2.7	1.25
	1120	182T	1.125	0.77	1.65	85.5	0.80	7.07	H	6	2.3	2.1	2.6	1.25
2	3510	145T	1.5	0.63	1.97	84	0.91	3.01	J	8	2.3	2	2.7	1.25
	1710	145T	1.5	1.08	2.27	84	0.79	6.18	J	6.4	2.4	2	2.7	1.25
	1120	184T	1.5	0.94	2.12	86.5	0.82	9.43	G	5.8	2.3	2.1	2.7	1.25
3	3525	182T	2.25	0.87	2.87	85.5	0.92	4.50	K	8.5	2.6	2.1	2.7	1.25
	1710	182T	2.25	1.39	3.15	87.5	0.82	9.27	H	6.6	2.4	2.1	2.9	1.25
	1130	213T	2.25	1.50	3.23	87.5	0.80	14.02	H	6.4	2.3	2.1	2.9	1.25
5	3540	184T	3.75	1.32	4.63	87.5	0.93	7.46	J	8.5	2.5	2	2.7	1.25
	1715	184T	3.75	2.50	5.38	87.5	0.80	15.40	J	6.9	2.4	2	2.8	1.25
	1130	215T	3.75	2.22	5.18	87.5	0.83	23.37	H	6.3	2.4	2.2	2.8	1.25
7.5	3540	213T	5.625	1.96	6.86	88.5	0.93	11.19	J	8	2.4	2	2.9	1.25
	1715	213T	5.625	3.79	7.99	89.5	0.79	23.10	K	7.9	2.5	2	3	1.25
	1140	254T	5.625	3.13	7.51	89.5	0.84	34.74	G	6.2	2.5	2	2.8	1.15
10	3540	215T	7.5	2.58	9.05	89.5	0.93	14.92	J	8.5	2.7	2	2.8	1.25
	1720	215T	7.5	4.53	10.26	89.5	0.82	30.71	J	7.1	2.3	2	2.8	1.25
	1140	256T	7.5	4.53	10.26	89.5	0.82	46.32	H	6.8	2.3	1.9	2.8	1.15
15	3545	254T	11.25	4.37	13.76	90.2	0.91	22.35	K	9	2.2	2.1	3	1.15
	1720	254T	11.25	6.42	14.96	91	0.83	46.07	J	7.8	2.3	2	2.7	1.15
	1140	284T	11.25	6.21	14.91	90.2	0.84	69.49	H	7	2.4	1.9	2.7	1.15
20	3550	256T	15	5.83	18.35	90.2	0.91	29.76	J	8.5	2.3	2.1	3	1.15
	1730	256T	15	5.78	18.19	91	0.91	61.07	J	7.9	2.5	2.1	2.8	1.15
	1145	286T	15	7.93	19.64	90.2	0.85	92.24	J	7.3	2.5	2	2.8	1.15
25	3550	284TS	18.75	6.79	22.49	91	0.92	37.20	H	7.5	2.4	2.1	2.9	1.15
	1730	284T	18.75	6.68	22.15	92.4	0.92	76.34	H	7.8	2.4	2.1	2.9	1.15
	1145	324T	18.75	10.61	24.74	91.7	0.83	115.30	J	7.8	2.3	2.1	2.9	1.15
30	3550	286TS	22.5	7.62	26.70	91	0.93	44.64	H	7.5	2.3	2	2.8	1.15
	1730	286T	22.5	10.59	28.10	92.4	0.87	91.60	J	7.8	2.4	2.1	3	1.15
	1150	326T	22.5	11.70	28.99	91.7	0.85	137.76	J	7.8	2.4	2.1	3.2	1.15
40	3555	324TS	30	11.46	36.10	91.7	0.91	59.44	H	7.7	2.4	2	2.7	1.15
	1740	324T	30	12.66	36.39	93	0.89	121.43	H	7.5	2.3	2	3	1.15
	1150	364T	30	14.71	37.66	93	0.86	183.68	J	7.9	2.3	1.9	3.1	1.15
50	3555	326TS	37.5	14.22	44.78	92.4	0.91	74.30	H	7.6	2.3	2	2.7	1.15
	1740	326T	37.5	16.68	46.01	93	0.88	151.79	J	7.9	2.4	2	2.7	1.15
	1150	365T	37.5	19.23	47.63	93	0.85	229.61	J	7.9	2.2	1.9	2.7	1.15
60	3560	364TS	45	14.92	52.24	93	0.93	89.03	H	8	2.3	2	2.8	1.15
	1745	364T	45	28.00	60.34	93.6	0.80	181.63	H	6.7	2.4	2	2.7	1.15
	1150	404T	45	24.96	58.16	93.6	0.83	275.53	J	7.5	2.3	2.1	2.7	1.15
75	3560	365TS	56.25	18.64	65.30	93	0.93	111.29	H	8	2.3	1.9	2.7	1.15
	1745	365T	56.25	34.81	75.03	94.1	0.80	227.04	H	7	2.3	2	2.8	1.15
	1155	405T	56.25	27.40	70.17	93.6	0.86	342.92	H	7.2	2.3	2	2.8	1.15
100	3565	405TS	75	24.70	86.51	93.6	0.93	148.17	J	9	2.2	1.9	2.7	1.15
	1750	405T	75	32.83	90.56	94.5	0.88	301.85	H	7.4	2.4	1.9	2.7	1.15
	1160	444T	75	36.33	93.06	94.1	0.86	455.25	J	7.7	2.2	1.9	2.7	1.15
125	3565	444TS	93.75	30.58	107.11	94.5	0.93	185.22	H	8	2.2	1.9	2.6	1.15
	1755	444T	93.75	34.77	109.47	94.5	0.91	376.24	H	7.60	2.2	1.9	2.6	1.15
	1160	445T	93.75	41.22	113.68	94.1	0.88	569.07	H	7.5	2.1	1.9	2.6	1.15
150	3565	445TS	112.5	34.19	127.17	94.5	0.94	222.26	H	7.5	2.2	1.9	2.5	1.15
	1760	445T	112.5	39.00	129.25	95	0.92	450.20	H	7.7	2.2	1.9	2.6	1.15
	1165	447T	112.5	44.00	132.12	95	0.90	679.95	H	7.5	2.1	1.9	2.6	1.15
200	3564	447TS	150	45.34	168.66	95	0.94	296.43	G	7.5	2.2	1.9	2.6	1.15
	1760	447T	150	52.00	172.33	95	0.92	600.27	H	7.5	2.2	1.9	2.5	1.15



# NEMA Premium Efficiency TEFC Motors Technical Data (575V) - Design B

HP	Full Load Speed (r/min)	NEMA Frame	Current			Eff. 100% FL (%)	Power Factor (CosΦ)	Full Load Torque LB-FT	Locked Rotor		T <sub>st</sub> /T <sub>n</sub> (Times)	T <sub>min</sub> /T <sub>n</sub> (Times)	T <sub>max</sub> /T <sub>n</sub> (Times)	Service Factor
			Output (KW)	I <sub>n</sub> 575V (A)	I <sub>fl</sub> 575V (A)				KVA Code	I <sub>sc</sub> /I <sub>n</sub> (Times)				
1	3495	143T	0.75	0.57	1.22	77	0.80	1.51	L	7.5	2.7	2.1	2.8	1.25
	1705	143T	0.75	0.58	1.16	85.5	0.76	3.10	G	5.4	2.3	2.1	2.9	1.25
	1120	145T	0.75	0.61	1.20	82.5	0.76	4.72	J	6.2	2.2	2	2.7	1.25
1.5	3495	143T	1.125	0.53	1.51	84	0.89	2.27	K	8	2.7	2.1	2.9	1.25
	1710	145T	1.125	0.81	1.67	86.5	0.78	4.63	H	5.9	2.3	2.1	2.7	1.25
	1120	182T	1.125	0.75	1.61	87.5	0.80	7.07	H	6	2.3	2.1	2.6	1.25
2	3510	145T	1.5	0.61	1.94	85.5	0.91	3.01	J	8	2.3	2	2.7	1.25
	1710	145T	1.5	1.05	2.20	86.5	0.79	6.18	H	6.4	2.4	2	2.7	1.25
	1120	184T	1.5	0.92	2.08	88.5	0.82	9.43	G	5.8	2.3	2.1	2.7	1.25
3	3525	182T	2.25	0.86	2.84	86.5	0.92	4.50	K	8.5	2.6	2.1	2.7	1.25
	1710	182T	2.25	1.36	3.08	89.5	0.82	9.27	H	6.6	2.4	2.1	2.9	1.25
	1130	213T	2.25	1.46	3.16	89.5	0.80	14.02	H	6.4	2.3	2.1	2.9	1.25
5	3540	184T	3.75	1.31	4.57	88.5	0.93	7.46	J	8.5	2.5	2	2.7	1.25
	1715	184T	3.75	2.44	5.26	89.5	0.80	15.40	J	6.9	2.4	2	2.8	1.25
	1130	215T	3.75	2.18	5.07	89.5	0.83	23.37	H	6.3	2.4	2.2	2.8	1.25
7.5	3540	213T	5.625	1.94	6.79	89.5	0.93	11.19	J	8	2.4	2	2.9	1.25
	1715	213T	5.625	3.70	7.80	91.7	0.79	23.10	K	7.9	2.5	2	3	1.25
	1140	254T	5.625	3.08	7.39	91	0.84	34.74	G	6.2	2.5	2	2.8	1.15
10	3540	215T	7.5	2.56	8.98	90.2	0.93	14.92	J	8.5	2.7	2	2.8	1.25
	1720	215T	7.5	4.42	10.02	91.7	0.82	30.71	H	7.1	2.3	2	2.8	1.25
	1140	256T	7.5	4.45	10.09	91	0.82	46.32	H	6.8	2.3	1.9	2.8	1.15
15	3545	254T	11.25	4.33	13.64	91	0.91	22.35	K	9	2.2	2.1	3	1.15
	1720	254T	11.25	6.32	14.73	92.4	0.83	46.07	J	7.8	2.3	2	2.7	1.15
	1140	284T	11.25	6.11	14.67	91.7	0.84	69.49	H	7	2.4	1.9	2.7	1.15
20	3550	256T	15	5.78	18.19	91	0.91	29.76	J	8.5	2.3	2.1	3	1.15
	1730	256T	15	5.65	17.80	93	0.91	61.07	H	7.9	2.5	2.1	2.8	1.15
	1145	286T	15	7.80	19.32	91.7	0.85	92.24	H	7.3	2.5	2	2.8	1.15
25	3550	284TS	18.75	6.73	22.32	91.7	0.92	37.20	H	7.5	2.4	2.1	2.9	1.15
	1730	284T	18.75	6.60	21.86	93.6	0.92	76.34	H	7.8	2.4	2.1	2.9	1.15
	1145	324T	18.75	10.47	24.39	93	0.83	115.30	J	7.8	2.3	2.1	2.9	1.15
30	3550	286TS	22.5	7.56	26.49	91.7	0.93	44.64	H	7.5	2.3	2	2.8	1.15
	1730	286T	22.5	10.45	27.74	93.6	0.87	91.60	J	7.8	2.4	2.1	3	1.15
	1150	326T	22.5	11.54	28.58	93	0.85	137.76	J	7.8	2.4	2.1	3.2	1.15
40	3555	324TS	30	11.38	35.83	92.4	0.91	59.44	H	7.7	2.4	2	2.7	1.15
	1740	324T	30	12.52	35.97	94.1	0.89	121.43	H	7.5	2.3	2	3	1.15
	1150	364T	30	14.53	37.22	94.1	0.86	183.68	J	7.9	2.3	1.9	3.1	1.15
50	3555	326TS	37.5	14.13	44.49	93	0.91	74.30	H	7.6	2.3	2	2.7	1.15
	1740	326T	37.5	16.42	45.28	94.5	0.88	151.79	J	7.9	2.4	2	2.7	1.15
	1150	365T	37.5	19.01	47.08	94.1	0.85	229.61	J	7.9	2.2	1.9	2.7	1.15
60	3560	364TS	45	14.82	51.91	93.6	0.93	89.03	H	8	2.3	2	2.8	1.15
	1745	364T	45	27.59	59.45	95	0.80	181.63	H	6.7	2.4	2	2.7	1.15
	1150	404T	45	24.72	57.61	94.5	0.83	275.53	J	7.5	2.3	2.1	2.7	1.15
75	3560	365TS	56.25	18.53	64.89	93.6	0.93	111.29	H	8	2.3	1.9	2.7	1.15
	1745	365T	56.25	34.34	74.01	95.4	0.80	227.04	H	7	2.3	2	2.8	1.15
	1155	405T	56.25	27.14	69.50	94.5	0.86	342.92	H	7.2	2.3	2	2.8	1.15
100	3565	405TS	75	24.57	86.05	94.1	0.93	148.17	J	9	2.2	1.9	2.7	1.15
	1750	405T	75	32.52	89.70	95.4	0.88	301.85	H	7.4	2.4	1.9	2.7	1.15
	1160	444T	75	35.99	92.18	95	0.86	455.25	H	7.7	2.2	1.9	2.7	1.15
125	3565	444TS	93.75	30.42	106.55	95	0.93	185.22	H	8	2.2	1.9	2.6	1.15
	1755	444T	93.75	34.44	108.43	95.4	0.91	376.24	H	7.60	2.2	1.9	2.6	1.15
	1160	445T	93.75	40.83	112.60	95	0.88	569.07	H	7.5	2.1	1.9	2.6	1.15
150	3565	445TS	112.5	34.01	126.50	95	0.94	222.26	G	7.5	2.2	1.9	2.5	1.15
	1760	445T	112.5	38.68	128.17	95.8	0.92	450.20	H	7.7	2.2	1.9	2.6	1.15
	1165	447T	112.5	43.63	131.02	95.8	0.90	679.95	H	7.5	2.1	1.9	2.6	1.15
200	3564	447TS	150	45.15	167.96	95.4	0.94	296.43	G	7.5	2.2	1.9	2.6	1.15
	1760	447T	150	51.35	170.18	96.2	0.92	600.27	H	7.5	2.2	1.9	2.5	1.15