



THREE PHASE MOTORS

RIGID BASE • GENERAL PURPOSE



DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/4	1725	...	...	...	...	...	...	...	...	...
	1725	S56	100027	\$246	A	16	208-230/460	1.4	58.0	9.24
1/3	3450	48	101447	251	A	14	208-230/460	1.4	68.0	9.00
	1725	48	100446	266	A	17	208-230/460	1.6	64.3	9.12
	1725	S56	100028	260	A	18	208-230/460	1.6	64.3	9.49
	1725	S56	103017 [W]	348	A	23	208-230/460	1.3	77.0	10.24
	1140	56	110425	422	A	23	208-230/460	1.6	65.0	9.88
1/2	3450	...	...	...	...	...	...	...	...	...
	3450	S56	101448	266	A	17	208-230/460	1.8	69.0	9.38
	1725	...	...	...	...	...	...	...	...	...
	1725	S56	100029	297	A	20	208-230/460	2.0	68.0	9.99
	1725	S56	103018 [W]	373	A	26	208-230/460	1.8	77.0	10.74
3/4	1140	56	110027	464	A	22	208-230/460	2.8	66.0	10.38
	850	...	...	...	...	...	...	...	...	...
	3450	...	...	...	...	...	...	...	...	...
	3450	S56	101449	315	A	20	208-230/460	2.4	79.0	9.88
	1725	S56	100030	332	A	24	208-230/460	2.8	75.0	10.49
1	1725	56	116738 [W]	379	A	30	208-230/460	2.4	81.5	10.86
	1140	56	110028	501	A	17	208-230/460	3.4	75.5	10.88
	1140	...	...	...	...	...	...	...	...	...
	850	...	...	...	...	...	...	...	...	...
	3450	56	110426	360	A	22	208-230/460	3.2	77.0	9.84
	3450	56	116128 [W]	456	A	24	208-230/460	2.8	80.0	10.18
	1725	56	110029	374	A	22	208-230/460	4.2	78.5	10.38
	1725	56	116752 [W]	520	A	36	208-230/460	3.2	85.5	11.68
	1725	56HZ	115827 *	358	A	24	208-230/460	4.2	78.5	11.13
	1725	143T	G120010	380	B	30	208-230/460	3.1	82.5	11.28
	1725	143T	121003 [W]	520	B	36	208-230/460	3.2	85.5	12.12
	1725	...	...	...	...	...	...	...	...	...
	1725	...	...	...	...	...	...	...	...	...
	1140	...	...	...	...	...	...	...	...	...
	1140	145T	G120089	525	B	35	208-230/460	3.6	80.0	12.28
1140	145T	121517	593	B	41	208-230/460	3.8	82.5	12.62	
1140	...	...	...	...	...	...	...	...	...
1140	...	...	...	...	...	...	...	...	...
850	...	...	...	...	...	...	...	...	...
1 1/2	3450	56	110429	404	A	29	208-230/460	4.2	81.5	10.84
	3450	56	116753 [W]	508	A	36	208-230/460	4.0	84.0	11.84
	3450	143T	G120103	430	B	35	208-230/460	4.0	82.5	11.78
	3450	143T	121514 [W]	508	B	36	208-230/460	4.0	84.0	12.28
	3450	...	...	...	...	...	...	...	...	...
	3450	...	...	...	...	...	...	...	...	...
	1725	56	110430	432	A	27	208-230/460	5.6	78.5	10.88
	1725	56	111309 †	478	A	33	208-230/460	5.6	78.5	10.88
	1725	56	116754 [W]	543	A	35	208-230/460	4.8	86.5	12.22
	1725	56HZ	115825 *	383	A	34	208-230/460	5.6	78.5	11.13
	1725	145T	G120011	404	B	37	208-230/460	4.4	84.0	12.13
	1725	145T	121004 [W]	543	B	35	208-230/460	4.8	86.5	12.62
	1725	...	...	...	...	...	...	...	...	...
	1725	...	...	...	...	...	...	...	...	...
	1140	...	...	...	...	...	...	...	...	...
1140	182T	G130010	616	B	54	208-230/460	5.6	84.0	13.69	
1170	182T	131971 [W]	713	B	82	208-230/460	5.6	86.5	14.69	
1170	...	...	...	...	...	...	...	...	...
1170	...	...	...	...	...	...	...	...	...
850	...	...	...	...	...	...	...	...	...

TOTALLY ENCLOSED FAN COOLED (TEFC)

NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
48	101646	\$269	A	18	208-230/460	1.4	58.0	9.31
48	102684	268	A	18	208-230/460	1.4	68.0	9.93
48	101647	322	A	21	208-230/460	1.6	64.3	9.31
S56	101079	296	A	22	208-230/460	1.6	64.3	9.69
S56	103019 [W]	432	A	24	208-230/460	1.3	77.0	10.19
56	110441	465	A	23	208-230/460	1.6	65.0	10.81
48	100905	312	A	18	208-230/460	1.8	69.0	9.94
48	100961 ♣	378	A	21	208-230/460	2.0	73.0	9.56
S56	100913	339	A	24	208-230/460	2.0	73.0	9.94
S56	103020 [W]	458	A	27	208-230/460	1.8	77.0	10.69
56	110353	501	A	26	208-230/460	2.4	70.0	11.31
56	114618	738	A	31	208-230/460	2.4	69.0	11.81
48	100960 ♣	343	A	21	208-230/460	2.4	79.0	10.44
56	110313	343	A	22	208-230/460	2.4	75.5	10.81
56	110034	361	A	22	208-230/460	2.8	77.0	10.81
56	116739 [W]	482	A	31	208-230/460	2.4	81.5	11.31
56	110275	501	A	33	208-230/460	3.0	75.5	11.81
143T	121009	512	B	34	208-230/460	3.0	75.5	12.75
145T	121199	851	B	21	208-230/460	3.1	70.0	12.75
56	110145	402	A	24	208-230/460	3.2	77.0	10.81
56	116129 [W]	532	A	24	208-230/460	2.8	80.0	11.31
56	110035	378	A	30	208-230/460	3.8	77.0	11.31
56	116757 [W]	592	A	32	208-230/460	3.2	85.5	12.81
56HZ	115830 *	400	A	31	208-230/460	3.8	77.0	12.75
143T	G120014	427	B	31	208-230/460	3.1	82.5	12.75
143T	120921 [W]	592	B	32	208-230/460	3.2	85.5	13.25
143T	G151696	457	B	49	208-230/460	3.2	84.0	13.46
143T	171640	635	B	50	208-230/460	3.2	85.5	13.46
56	113933	519	A	35	208-230/460	4.0	77.0	12.31
145T	G120087	566	B	45	208-230/460	3.6	80.0	13.25
145T	121520 [W]	700	B	47	208-230/460	3.8	82.5	13.75
145T	G151699	606	B	58	208-230/460	3.8	82.5	13.46
145T	171643	747	B	58	208-230/460	3.8	82.5	13.46
182T	131478	1049	B	57	230/460	4.2	74.0	12.96
56	110745 ♣	440	A	30	208-230/460	4.2	81.5	11.81
56	116758 [W]	604	A	33	208-230/460	4.0	84.0	12.81
145T	G120086	471	B	45	208-230/460	4.0	82.5	12.76
143T	121518 [W]	604	B	33	208-230/460	4.0	84.0	13.25
143T	G151698	505	B	45	208-230/460	4.0	82.5	13.46
143T	171642	647	B	49	208-230/460	4.0	84.0	13.46
56	110444	425	A	30	208-230/460	5.0	78.5	11.81
56	116759 [W]	604	A	34	208-230/460	4.8	86.5	13.31
56HZ	115829 *	404	A	37	208-230/460	5.0	78.5	12.75
145T	G120015	431	B	36	208-230/460	4.4	84.0	12.75
145T	120922 [W]	614	B	34	208-230/460	4.8	86.5	13.75
145T	G151702	462	B	53	208-230/460	4.5	85.5	13.46
145T	171646	655	B	54	208-230/460	4.8	86.5	13.46
56H	114930 □	597	A	48	208-230/460	5.7	77.0	13.31
56HZ	116591 *	597	A	45	208-230/460	5.7	77.0	13.75
182T	G130015	657	B	82	208-230/460	5.6	85.5	14.96
182T	131980 [W]	1019	B	89	208-230/460	5.6	87.5	15.96
184T	131479	1245	B	68	230/460	5.6	77.0	13.96

□ Combination 56H base motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 56 shaft.

Motors in this column have a 1.15 Service Factor, except as noted by ♣, which have a 1.0 Service Factor.

♣ 1.0 Service Factor.

† Automatic reset overload protection. Do not use with variable frequency drives.

[W] Premium efficiency WATTS SAVER® Motors. See page 15 for details.

* 56HZ motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 143-5T shaft.

All 180 and 210 frame Rolled Steel motors have Class F Insulation.

Catalog numbers in green are EPACT motors.
Catalog numbers in blue are available in 3rd quarter 2008.

All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.

DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)	
2	3450	56	113292	\$475	A	33	208-230/460	5.6	82.5	11.34	
	3450	56	116755	599	A	43	208-230/460	4.8	85.5	12.18	
	3450	145T	G120076	486	B	45	208-230/460	5.2	84.0	11.78	
	3450	145T	121515	599	B	43	208-230/460	4.8	85.5	12.62	
	3450	...	...	...	...	...	...	...	...	...
	3450	...	...	...	...	...	...	...	...	...
	1725	56H	113025	452	A	32	208-230/460	6.2	78.5	11.38	
	1725	56H	111310	551	A	36	208-230/460	6.2	78.7	11.38	
	1725	56H	116756	615	A	37	208-230/460	5.8	86.5	13.22	
	1725	56HZ	115826 *	411	A	33	208-230/460	6.2	78.5	11.63	
	1725	145T	G120012	433	B	45	208-230/460	6.0	84.0	12.12	
	1725	145T	121005	615	B	37	208-230/460	5.8	86.5	13.63	
	1725	...	...	...	...	...	...	...	...	...
	1725	...	...	...	...	...	...	...	...	...
	1140	184T	G130012	595	B	81	208-230/460	7.2	85.5	14.69	
	1170	184T	131972	709	B	88	208-230/460	7.2	87.5	15.19	
	850	...	...	...	...	...	...	...	...	...
	3	3450	56H	113293	490	A	38	208-230/460	7.6	84.0	11.84
3450		145T	G120077	508	B	45	208-230/460	7.6	84.0	12.28	
3450		145T	121516	593	B	45	208-230/460	7.2	86.5	12.62	
3510		...	...	...	...	...	...	...	...	...
3510		...	...	...	...	...	...	...	...	...
1740		56HZ	116595 *	490	A	44	208-230/460	8.6	82.5	13.12	
1740		182T	G130000	477	B	57	208-230/460	8.4	86.5	12.69	
1740		182T	131519	630	B	75	208-230/460	7.9	89.5	13.69	
1750		...	...	...	...	...	...	...	...	...
1750		...	...	...	...	...	...	...	...	...
1140		213T	G140550	804	B	140	208-230/460	11.6	87.5	15.76	
1180		213T	171574	940	C	154	208-230/460	10.0	88.5	16.38	
850		...	...	...	...	...	...	...	...	...
5		3490	145T	G121662	525	B	45	208-230/460	12.4	85.5	13.78
		3500	184T	131986	664	B	86	208-230/460	12.0	86.5	15.19
		3450	182T	G130282	538	B	64	208-230/460	12.2	85.5	13.19
		3510
		1740	184T	G130004	529	B	69	208-230/460	13.2	87.5	13.69
	1740	184T	131520	709	B	86	208-230/460	12.8	89.5	15.19	
	1750	...	...	...	...	...	...	...	...	...
	1750	...	...	...	...	...	...	...	...	...
	1140	215T	G140122	936	B	120	208-230/460	17.6	87.5	16.75	
	1140	215T	171575	1190	C	188	208-230/460	15.0	90.2	16.38	
	850	...	...	...	...	...	...	...	...	...
	7½	3510
		3450	184T	131988	961	B	106	208-230/460	17.6	88.5	16.19
		3450	184T	G130284	739	B	78	208-230/460	17.6	87.5	14.69
		3450
		3510
		3510
		1740	213T	G140471	768	B	144	208-230/460	20.0	88.5	15.25
1760		213T	140470	890	B	133	208-230/460	20.6	91.0	16.25	
1750		213T	G150142	783	C	147	208-230/460	19.6	88.5	16.38	
1760		213T	170142	943	C	160	208-230/460	19.8	91.0	16.38	
1170		254T	G150145	1214	C	240	208-230/460	20.2	88.5	20.94	
1170		254T	170145	1490	C	291	208-230/460	22.4	91.7	20.94	
850		...	...	...	...	...	...	...	...	...

Motors in this column have NEMA Service Factors—see page 308 for details.

- ♦ Automatic reset overload protection. Do not use with variable frequency drives.
- ◻ Combination 56H base motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 56 shaft.
- * 56HZ motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 143-5T shaft.
- Premium efficiency WATTS-AVER® motor. See page 15 for details.

All 180 and 210 frame Rolled Steel motors have Class F Insulation.

TOTALLY ENCLOSED FAN COOLED (TEFC)

NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
56	111916	\$495	A	33	208-230/460	5.6	82.5	12.31
56	116760	661	A	44	208-230/460	4.8	85.5	13.31
145T	G120088	542	B	45	208-230/460	5.2	84.0	13.26
145T	121519	661	B	44	208-230/460	4.8	85.5	13.75
145T	G151704	580	B	49	208-230/460	5.2	84.0	13.46
145T	171648	706	B	56	208-230/460	4.8	85.5	13.46
56H	113026	461	A	35	208-230/460	6.2	81.5	12.31
...
56H	116761	639	A	45	208-230/460	5.8	86.5	14.32
56HZ	115828 *	428	A	37	208-230/460	6.2	81.5	12.75
145T	G120016	456	B	46	208-230/460	5.6	84.0	13.75
145T	120923	639	B	45	208-230/460	5.8	86.5	14.76
145T	G151703	491	B	56	208-230/460	5.8	85.5	13.46
145T	171647	683	B	58	208-230/460	5.8	86.5	13.46
184T	G130016	709	B	90	208-230/460	7.2	86.5	15.46
184T	131981	1038	B	89	208-230/460	7.2	88.5	15.96
213T	140516	1579	B	107	230/460	8.8	77.0	17.21
56H	114614	575	A	40	208-230/460	7.6	84.0	13.25
145T	G120185	619	B	42	230/460	7.6	85.5	13.76
182T	G130099	664	B	60	208-230/460	7.6	85.5	13.46
182T	G151563	713	C	93	208-230/460	7.4	85.5	16.14
182T	131985	917	B	66	208-230/460	7.6	86.5	13.96
56HZ	116594 *	506	A	45	208-230/460	8.6	82.5	14.26
182T	G130008	540	B	68	208-230/460	8.2	87.5	13.96
182T	131463	723	B	80	208-230/460	7.8	89.5	14.96
182T	G151320	695	C	94	208-230/460	8.5	87.5	15.89
182T	171320	812	C	104	208-230/460	7.8	89.5	15.89
213T	G140551	891	B	116	208-230/460	12.0	87.5	17.71
213T	171378	1148	C	171	208-230/460	9.4	89.5	18.19
215T	140518	1727	B	114	230/460	12.6	80.0	17.21
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184T	G150299	719	C	100	208-230/460	12.0	87.5	16.80
184T	G130101	764	B	73	208-230/460	12.0	87.5	14.46
184T	131987	819	B	96	208-230/460	12.0	88.5	16.46
184T	G130027	622	B	80	208-230/460	13.0	87.5	14.96
184T	131464	794	B	94	208-230/460	12.8	89.5	15.96
184T	G151322	738	C	101	208-230/460	13.8	87.5	15.89
184T	171322	843	C	109	208-230/460	12.8	89.5	16.80
215T	G140126	1073	B	142	208-230/460	17.6	87.5	18.21
215T	171379	1280	C	176	208-230/460	14.4	89.5	19.61
254T	151355	2774	C	188	208-230/460	14.4	88.3	23.23
213T	170158	1170	C	147	208-230/460	18.0	91.0	18.19
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184T	G131082	851	B	91	208-230/460	16.8	88.5	15.96
S213T	G130103	874	B	101	208-230/460	16.8	88.5	16.59
213T	140756	1105	B	156	208-230/460	17.8	90.2	19.84
213T	G150158	950	C	150	208-230/460	17.8	88.5	18.20
213T	G140578	833	B	144	208-230/460	20.4	89.5	17.71
213T	140450	1021	B	144	208-230/460	21.4	91.7	18.70
213T	G150157	857	C	153	208-230/460	19.2	89.5	18.19
213T	170157	1128	C	155	208-230/460	18.6	91.7	18.19
254T	G150122	1536	C	250	208-230/460	20.0	89.5	23.23
254T	170122	1668	C	249	208-230/460	22.2	91.7	23.19
256T	151356	3013	C	300	208-230/460	20.0	87.7	24.96

Motors in this column have a 1.15 Service Factor, except as noted by which have a 1.0 Service Factor.

CONTINUED ON NEXT PAGE

SHADED FRAME INDICATES CAST IRON CONSTRUCTION

Catalog numbers in green are EPACT motors.
Catalog numbers in blue are available in 3rd quarter 2008.

All three phase motors, 1 HP and above, are inverter
rated. Refer to page 5 for speed ranges.



CAST IRON AND ROLLED STEEL THREE PHASE MOTORS

RIGID BASE • GENERAL PURPOSE



DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)	
10	3450	213T	G140682	\$926	B	138	208-230/460	23.4	88.5	17.30	
	3510	213T	140753 [W]	1012	B	160	208-230/460	23.4	89.5	17.30	
	3510	213T	G150143	965	C	168	208-230/460	24.0	88.5	16.38	
	3510	213T	170143 [W]	1017	C	150	208-230/460	23.6	91.0	16.38	
	1740	215T	G140490	917	B	132	208-230/460	28.0	89.5	16.75	
	1760	215T	140472 [W]	1051	B	144	208-230/460	26.8	91.7	17.25	
	1750	215T	G150144	991	C	168	208-230/460	25.0	89.5	17.87	
	1760	215T	170144 [W]	1113	C	200	208-230/460	25.6	91.7	17.87	
	1170	256T	G150146	1573	C	268	208-230/460	27.0	90.2	22.60	
	1170	256T	170146 [W]	1856	C	305	208-230/460	29.6	91.7	22.60	
850	...	...	...	...	...	...	...	...	...
15	3450	215T	G140683	1357	B	145	208-230/460	34.0	90.2	18.35	
	3510	215T	140754 [W]	1344	B	170	208-230/460	35.0	91.0	18.55	
	3510	215T	G150064	1303	C	173	208-230/460	35.0	89.5	17.87	
	3510	215T	170064 [W]	1446	C	175	208-230/460	34.6	91.0	17.87	
	3525	...	...	...	...	...	...	...	...	...
	3525	...	...	...	...	...	...	...	...	...
	1760	S254T	G140579	1391	B	150	208-230/460	39.6	91.0	20.07	
	1770	254T	G150065	1352	C	265	208-230/460	37.6	91.0	20.94	
	1770	254T	170065 [W]	1482	C	279	208-230/460	37.0	93.0	20.94	
	1170	284T	G150067	2061	C	365	208-230/460	41.0	90.2	23.54	
1170	284T	170067 [W]	2443	C	414	208-230/460	39.4	92.4	23.54		
850	...	...	...	...	...	...	...	...	...
20	3525	254T	G150032	1591	C	258	208-230/460	46.6	90.2	20.94	
	3525	254T	170032 [W]	1817	C	275	208-230/460	46.0	93.0	20.94	
	1750	256T	G150006	1711	C	307	208-230/460	48.0	91.7	22.60	
	1770	256T	170006 [W]	1810	C	324	208-230/460	51.0	93.0	22.60	
	1170	286T	G150000	2528	C	385	208-230/460	53.0	91.0	25.00	
	1170	286T	170000 [W]	2977	C	467	208-230/460	55.0	92.4	25.00	
	850	...	...	...	...	...	...	...	...	...
	25	3500
		3525	256T	G150034	1962	C	292	208-230/460	57.0	91.0	22.60
		3525	256T	170034 [W]	2254	C	327	208-230/460	52.4	93.0	22.60
3550		...	...	...	...	...	...	...	...	...
3550		...	...	...	...	...	...	...	...	...
1770		284T	G150009	1974	C	388	208-230/460	59.6	91.7	23.54	
1770		284T	170009 [W]	2254	C	404	208-230/460	59.6	93.6	23.54	
1180		324T	G150002	3065	C	529	208-230/460	67.0	91.7	26.02	
1190		324T	170002 [W]	3545	C	705	208-230/460	67.0	93.0	26.02	
850		...	...	...	...	...	...	...	...	...
30	3550	284TS	G150036	2310	C	373	208-230/460	70.4	91.0	22.17	
	3550	284TS	170036 [W]	2617	C	396	208-230/460	67.0	94.1	22.17	
	1770	286T	G150013	2270	C	434	208-230/460	72.0	92.4	25.00	
	1770	286T	170013 [W]	2443	C	471	208-230/460	71.0	94.1	25.00	
	1180	326T	G150004	3445	C	567	208-230/460	78.8	92.4	27.52	
	1190	326T	170004 [W]	3698	C	760	208-230/460	78.0	93.6	27.52	
	850	...	...	...	...	...	...	...	...	...
	40	3550	286TS	G150038	2771	C	426	208-230/460	93.0	91.7	23.62
		3550	286TS	170038 [W]	3446	C	441	208-230/460	91.2	93.6	23.62
		3550
3550		...	...	...	...	...	...	...	...	...
1780		324T	G150017	2889	C	528	208-230/460	96.0	91.0	26.02	
1780		324T	170017 [W]	3221	C	560	208-230/460	96.0	94.1	26.02	
1180		364T	G150147	4187	C	654	208-230/460	100.0	93.0	28.01	
1180		364T	170147 [W]	5272	C	892	208-230/460	103.0	94.1	28.01	

TOTALLY ENCLOSED FAN COOLED (TEFC)

NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
215T	G140686	\$1120	B	126	208-230/460	24.0	89.5	19.84
215T	140451 [W]	1283	B	170	208-230/460	23.6	91.7	21.09
215T	G150159	1105	C	167	208-230/460	23.6	89.5	19.61
215T	170159 [W]	1386	C	181	208-230/460	23.4	91.7	19.61
215T	G140489	965	B	167	208-230/460	26.0	89.5	18.71
215T	140451 [W]	1235	B	161	208-230/460	26.6	91.7	19.70
215T	G150140	1064	C	176	208-230/460	25.2	89.5	19.61
215T	170140 [W]	1345	C	177	208-230/460	25.0	91.7	19.61
256T	G150123	1918	C	277	208-230/460	26.2	89.5	24.92
256T	170123 [W]	2385	C	300	208-230/460	29.0	91.7	24.92
284T	150282	3868	C	346	208-230/460	26.0	88.8	26.26
215T	G140687	1405	B	140	208-230/460	36.0	90.2	20.57
215T	G151317	1477	C	168	208-230/460	35.0	90.2	19.61
254T	G150062	1478	C	260	208-230/460	35.0	90.2	23.19
254T	170062 [W]	1883	C	282	208-230/460	35.0	92.4	23.19
254T	G150066	1522	C	284	208-230/460	37.0	91.0	23.19
254T	170066 [W]	1822	C	280	208-230/460	36.0	92.4	23.19
284T	G150068	2645	C	359	208-230/460	40.4	90.2	26.26
284T	170068 [W]	3228	C	333	208-230/460	40.6	92.4	26.26
286T	150261	4571	C	480	208-230/460	40.0	91.0	27.83
256T	G150033	2010	C	296	208-230/460	46.2	90.2	24.92
256T	170033 [W]	2301	C	316	208-230/460	46.0	92.4	24.92
256T	G150007	1873	C	321	208-230/460	48.2	91.0	24.92
256T	170007 [W]	2279	C	322	208-230/460	49.0	93.0	24.92
286T	G150001	3159	C	408	208-230/460	52.6	90.2	27.83
286T	170001 [W]	4037	C	392	208-230/460	54.0	91.7	27.83
324T	150263	5495	C	640	208-230/460	54.0	91.0	29.53
256T	G151318	2369	C	307	208-230/460	56.4	91.0	24.92
284TS	G150035	2428	C	349	208-230/460	58.2	91.0	24.88
284TS	170035 [W]	2993	C	383	208-230/460	56.8	93.0	24.88
284T	G150011	2203	C	370	208-230/460	58.8	92.4	26.26
284T	170011 [W]	2827	C	385	208-230/460	59.0	93.6	26.26
324T	G150003	3831	C	494	208-230/460	64.8	91.7	29.53
324T	170003 [W]	4724	C	545	208-230/460	66.0	93.0	29.53
326T	150265	6408	C	700	208-230/460	63.0	90.2	31.02
286TS	G150037	2675	C	375	208-230/460	69.2	91.0	26.46
286TS	170037 [W]	3534	C	385	208-230/460	67.6	93.0	26.46
286T	G150015	2680	C	428	208-230/460	69.8	92.4	27.83
286T	170015 [W]	3294	C	432	208-230/460	70.0	94.1	27.83
326T	G150005	4149	C	528	208-230/460	77.0	91.7	31.02
326T	170005 [W]	5303	C	615	208-230/460	77.2	93.6	31.02
324TS	G150039	3506	C	496	208-230/460	93.0	91.7	28.03
324TS	170039 [W]	4408	C	504	208-230/460	89.0	93.6	28.03
324T	G150019	3460	C	528	208-230/460	90.0	93.0	29.53
324T	170019 [W]	4375	C	528	208-230/460	92.0	94.1	29.53
364T	G150096	5981	C	638	208-230/460	101.0	93.0	32.64
364T	170096 [W]	7269	C	636	208-230/460	102.0	94.1	32.64

NOTE: 150 and 170 Series Drip-Proof and TEFC motors in NEMA frames 180T thru 447T can be field converted, by reassembly, to F2 conduit box locations.

[W] Premium efficiency WATSAVER® motor. See page 15 for details.

All 180 and 210 frame Rolled Steel motors have Class F Insulation.

All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.

All 150 & 170 Series motors on pages 8-11 have a 1.15 Service Factor, Class F insulation.

CONTINUED ON NEXT PAGE

SHADED FRAME INDICATES CAST IRON CONSTRUCTION

Catalog numbers in green are EPACT motors.

CAST IRON THREE PHASE MOTORS

150 & 170 SERIES • RIGID BASE • GENERAL PURPOSE



Rigid Base

DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)	
50	3550	324TS	G150040	\$3416	C	511	208-230/460	112.0	92.4	24.53	
	3550	324TS	170040 [W]	4203	C	548	208-230/460	112.0	94.1	24.53	
	1780	326T	G150021	3267	C	612	208-230/460	120.0	93.0	27.52	
	1780	326T	170021 [W]	3891	C	614	208-230/460	118.0	94.5	27.52	
	1180	365T	G150148	5338	C	716	208-230/460	125.0	93.0	31.18	
	1180	365T	170148 [W]	6031	C	918	208-230/460	128.0	94.5	33.62	
	60	3550	326TS	G150042	3821	C	560	208-230/460	134.0	93.0	26.02
		3550	326TS	170042 [W]	5026	C	590	208-230/460	136.0	94.1	26.02
		3570
		3570
1780		364T	G150025	4129	C	715	208-230/460	141.0	93.6	28.01	
1780		364T	170025 [W]	4283	C	716	208-230/460	139.0	94.1	28.01	
1190		404T	G150149	6102	C	1010	208-230/460	142.0	93.6	32.76	
1190		404T	170149	6676	C	1031	208-230/460	159.0	94.5	32.76	
75		3570	364TS	G150044	5492	C	707	208-230/460	173.0	93.0	26.89
		3570	364TS	170044 [W]	6641	C	720	208-230/460	176.0	94.1	26.89
	1780	365T	G150029	5032	C	765	208-230/460	177.0	94.1	31.18	
	1780	365T	170029 [W]	5282	C	766	208-230/460	172.0	94.5	31.18	
	1190	405T	G150150	7648	C	1017	208-230/460	181.0	93.6	34.25	
	1190	405T	170150	7227	C	1095	208-230/460	196.0	94.5	34.25	
	100	3570	365TS	G150151	6444	C	752	208-230/460	236.0	93.0	29.06
		3570	365TS	170151 [W]	7508	C	775	208-230/460	226.0	94.5	29.06
		3570
		3570
1780		404T	G150152	6418	C	988	208-230/460	240.0	94.1	32.76	
1780		404T	170152 [W]	7227	C	1141	208-230/460	225.0	95.4	32.76	
1190		...	...	...	...	...	...	...	...	...
1190		444T	170255 [W]	9345	C	1975	460	118.0+	95.4	40.00	
125		3570	404TS	G150154	7352	C	987	230/460	282.0	93.6	29.76
		3570	404TS	170154 [W]	8678	C	1015	208-230/460	284.0	94.5	29.76
	3570	...	...	...	...	...	...	...	...	...
	3570	...	...	...	...	...	...	...	...	...
	1780	405T	G150155	7437	C	1083	230/460	280.0	94.5	34.25	
	1780	405T	170155 [W]	9146	C	1292	230/460	280.0	95.4	34.25	
	1790	...	...	...	...	...	...	...	...	...
	1190	...	...	...	...	...	...	...	...	...
	1190	445T	170259 [W]	12148	C	2022	460	148.0+	95.8	40.00	
	150	3570	405TS	G151449	10873	C	1073	460	167.0+	93.6	31.26
3570		405TS	171449 [W]	10707	C	1085	460	169.0+	94.5	31.26	
3570		...	...	...	...	...	...	...	...	...
1790		444T	G151522	9924	C	1852	460	164.0+	95.0	40.00	
1780		444T	171522 [W]	10800	C	2000	460	164.0+	95.8	40.00	
1780		...	...	...	...	...	...	...	...	...
1190		445T	171576 [W]	13033	C	2040	460	206.0+	95.8	40.00	
200		3570	444TS	171573 [W]	12134	C	1765	460	216.0+	95.4	36.25
		3570
		1785	445T	G151523	11995	C	1860	460	229.0+	95.0	40.00
	1790	445T	171523 [W]	12455	C	2037	460	229.0+	95.8	40.00	
	1190	447T	171577 [W]	17132	C	2820	460	239.0+	96.2	43.12	
	250	1770
		1785	445T	151524	13980	C	1940	460	284.0+	94.5	40.00
	300	1785	445T	151525	16038	C	1962	460	329.0+	95.0	40.00
		350	1780	445T	151518	17701	C	2041	460	392.0+	94.1	40.00
	1790	

◆ Full Load Amps 460 volt

[W] Premium efficiency WATTS-AVER[®] motor. See page 15 for details.

TOTALLY ENCLOSED FAN COOLED (TEFC)

NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
326TS	G150041	\$4342	C	637	208-230/460	112.0	92.4	29.53
326TS	170041 [W]	5353	C	554	208-230/460	111.0	94.5	29.53
326T	G150023	4266	C	561	208-230/460	117.8	93.0	31.02
326T	170023 [W]	5284	C	587	208-230/460	117.0	94.5	31.02
365T	G150097	6982	C	686	208-230/460	123.0	93.0	33.62
365T	170097 [W]	8724	C	672	208-230/460	124.0	94.1	33.62
...
...
364TS	G150043	6709	C	695	208-230/460	137.0	93.0	30.51
364TS	170043 [W]	7939	C	735	208-230/460	136.0	94.1	30.51
364T	G150027	6229	C	687	208-230/460	138.0	93.6	32.64
364T	170027 [W]	7516	C	666	208-230/460	137.0	95.4	32.64
404T	G150098	8071	C	888	208-230/460	145.0	93.6	36.42
404T	170098 [W]	10290	C	870	208-230/460	142.0	94.5	36.42
365TS	G150045	7904	C	850	208-230/460	172.0	93.0	31.50
365TS	170045 [W]	9725	C	780	208-230/460	169.0	94.5	31.50
365T	G150031	7191	C	723	208-230/460	173.0	94.1	33.62
365T	170031 [W]	9380	C	733	208-230/460	171.0	95.8	33.62
405T	G150099	9503	C	973	208-230/460	179.0	93.6	37.91
405T	170099 [W]	10846	C	975	208-230/460	176.0	95.0	37.91
...
...
405TS	G150160	9915	C	985	208-230/460	220.0	93.6	34.92
405TS	170160 [W]	11975	C	955	208-230/460	218.0	95.0	34.92
405T	G150087	9660	C	1050	208-230/460	229.0	94.5	37.91
405T	170087 [W]	11664	C	1070	208-230/460	225.0	95.4	37.91
444T	G151367	13646	C	1655	460	114.5+	94.1	42.87
444T	170256 [W]	15440	C	1457	460	121.0+	95.0	42.87
...
...
444TS	G151368	14089	C	1282	460	134.0+	94.5	39.10
444TS	171580	14298	C	1316	460	132.0	95.0	39.10
...
444T	G151369	12826	C	1920	460	139.0+	94.5	42.87
444T	170369 [W]	15486	C	1950	460	137.5+	95.4	42.87
445T	G151370	15609	C	2179	460	147.0+	94.1	44.88
445T	170260 [W]	17445	C	1596	460	155.0+	95.4	44.88
...
...
445TS	171578	17647	C	1445	460	161.0	95.0	44.88
445T	G151371	14391	C	1900	460	169.0+	95.0	44.88
...
445T	170371 [W]	17718	C	1627	460	163.0+	95.8	44.88
445T	171315 [W]	19672	C	2230	460	185.5+	95.8	48.00
...
...
447TS	171579	20325	C	1977	460	216.5	95.4	48.00
447T	170352 [W]	20294	C	2227	460	216.0+	96.2	48.00
447T	G150352	18346	C	2053	460	223.0+	95.0	48.00
449T	171316 [W]	25766	C	2542	460	241.5+	96.2	52.80
449T	151516	21939	C	2425	460	274.0+	95.0	52.80
...
...
449T	151529	24675	C	2558	460	327.0+	95.4	52.80
...
...
449T	151530	25712	C	2710	460	402.0+	95.4	52.80

All 150 & 170 Series motors on pages 10-13 have a 1.15 Service Factor, Class F insulation.

SHADED FRAME INDICATES CAST IRON CONSTRUCTION

Catalog numbers in green are EPACT motors.

All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.

LEESON CAST IRON • THREE PHASE MOTORS

150 & 170 SERIES • RIGID BASE • GENERAL PURPOSE

For reliable performance in heavy-duty industrial applications, nothing beats the LEESON Heavyweights. With their cast iron construction and 1.15 Service Factor, they are ideal for "tough to handle" applications.


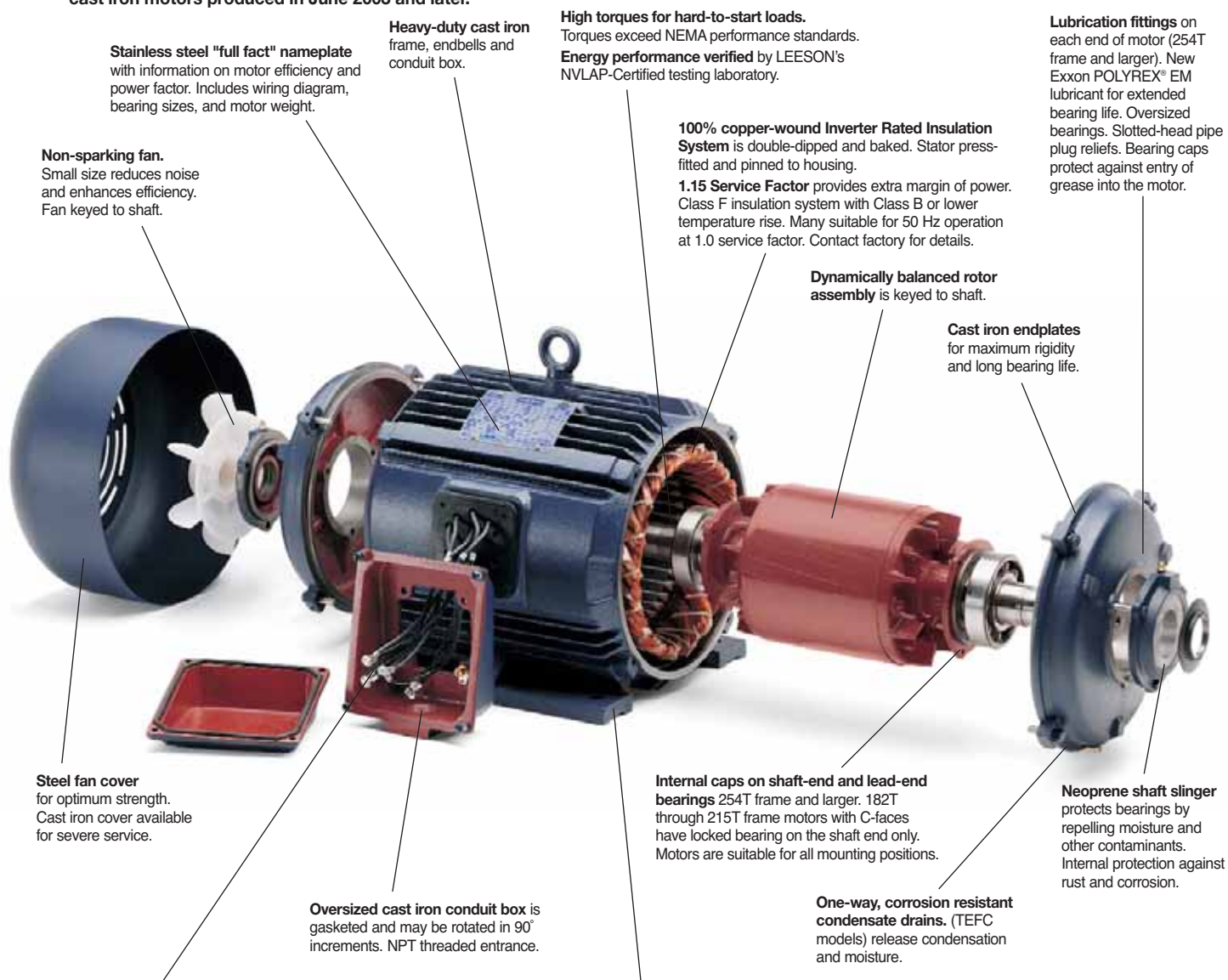
But that's only part of the story. LEESON 150 and 170-series cast iron motors are extremely versatile and can be field converted in minutes to a number of different configurations, including:

- Severe Duty TEFC (using cast iron fan guard kit)
- F2 mounting (by reassembly)
- C face with rigid base (from stock or using C face kit)
- D flange with base (using D flange kit)

CSA certified under report number LR62104
 CSA Energy Efficiency Verification report number EEV78720-1

UL recognized insulation system, file number E55555 and UL recognized construction, file number E57948 on all cast iron motors produced in June 2003 and later.

LEESON's Inverter Rated Insulation System (IRIS™) provides superior motor protection against voltage spikes induced by variable frequency drives. This *total insulation system* protects better than spike-resistant magnet wire alone. Specially formed phase insulation, cushioned and sleeved connections (from the leads all the way into the turns), and deep-penetrating, non-hygroscopic, high temperature varnish are just a few features contributing to the extra protection. All this plus second generation, spike-resistant magnet wire. The IRIS™ *total insulation system* is standard at no extra cost in all LEESON stock NEMA three-phase motors, 1 HP and larger.

Stainless steel "full fact" nameplate with information on motor efficiency and power factor. Includes wiring diagram, bearing sizes, and motor weight.

Heavy-duty cast iron frame, endbells and conduit box.

High torques for hard-to-start loads. Torques exceed NEMA performance standards.
Energy performance verified by LEESON's NVLAP-Certified testing laboratory.

100% copper-wound Inverter Rated Insulation System is double-dipped and baked. Stator press-fitted and pinned to housing.
1.15 Service Factor provides extra margin of power. Class F insulation system with Class B or lower temperature rise. Many suitable for 50 Hz operation at 1.0 service factor. Contact factory for details.

Lubrication fittings on each end of motor (254T frame and larger). New Exxon POLYREX® EM lubricant for extended bearing life. Oversized bearings. Slotted-head pipe plug reliefs. Bearing caps protect against entry of grease into the motor.

Non-sparking fan. Small size reduces noise and enhances efficiency. Fan keyed to shaft.

Dynamically balanced rotor assembly is keyed to shaft.

Cast iron endplates for maximum rigidity and long bearing life.

Steel fan cover for optimum strength. Cast iron cover available for severe service.

Internal caps on shaft-end and lead-end bearings 254T frame and larger. 182T through 215T frame motors with C-faces have locked bearing on the shaft end only. Motors are suitable for all mounting positions.

Neoprene shaft slinger protects bearings by repelling moisture and other contaminants. Internal protection against rust and corrosion.

Oversized cast iron conduit box is gasketed and may be rotated in 90° increments. NPT threaded entrance.

One-way, corrosion resistant condensate drains. (TEFC models) release condensation and moisture.

12-Lead Delta windings (254T to 405T frame and larger) for across-the-line or wye delta starts. (182T & 215T frame motors are dual voltage with nine leads. Motors above 405T frame are single voltage with six leads. 575V motors have six leads, except 213T-215T which have three leads) Permanently marked leads with lugs for easy connection. Normally-closed thermostat standard on WATTSaver® designs.

Cast iron mounting feet. Precision-machined for accurate alignment. Dual mounting provisions (six mounting holes) on 184T, 215T, 256T, 286T, 326T, 365T, 405T, 445T, 447T and 449T frames.

