



NEMA Frame General Purpose Electric Motors



- High Efficiency in accordance with EPACT (CSA C390 OR NEMA1.12-1995)
- B Design
- F Class Insulation
- IP54
- Service Factor 1.15
- 208-23-/460V, 575V, 60HZ
- TEFC Continuous Duty
- Winding to be VPI treated

- Shielded ball bearing for 143T-215T, Open cap bearing for 254T-449T, the bearing to be antifriction and low vibration
- Frame 143T-449T, 505, 587, 588 available
- Cast iron frame with Rigid base
- NEMA C Design available on requirements
- C and D Flange available
- CE and CSA listed



ISO9001
Certified

TECHNICAL DATA

Model	Frame Size	Synchronous speed 3600 RPM 60Hz												
		Rating		At Full Load				Inertia Of Moment (kg m ²)	Locked Current 460v (A)	Locked Torque Rated Torque	Breakdown Torque Rated Torque	Noise LW	Wgt (kg)	
		HP	KW	Speed	Current	Effi	Power							
AG143/1.5-2P	143	1.5	1.1	3445	2	82.5	0.84	0.0026	20	1.75	2.50	71	28	
AG145/2-2P	145	2	1.5		2.7	84.0		0.0035	25	1.70	2.40		32	
AG182/3-2P	182	3	2.2	3505	3.8	85.5	0.87	0.0089	32	1.60	2.30	75	42	
AG184/5-2P	184	5	3.7		6.1	87.5	0.88	0.015	46	1.50	2.15		56	
AG213/7.5-2P	213	7.5	5.5		8.9	88.5	0.89	0.033	63.5	1.40	2.00	77	75	
AG215/10-2P	215	10	7.5		11.8	89.5		0.038	81	1.35			86	
AG254/15-2P	254	15	11	3520	17.6	90.2	0.058	115	1.30	117				
AG256/20-2P	256	20	15	3515	23.2		0.055	145		125				
AG284/25-2P	284	25	18.5	3535	28.7	91.0	0.082	182.5	1.25	82	162			
AG286/30-2P	286	30	22	3525	34.5		0.098	217.5			180			
AG324/40-2P	324	40	30	3540	45.6	91.7	0.15	290	1.20	80	240			
AG326/50-2P	326	50	37	3550	56.6		92.4	0.18			326.5	255		
AG364/60-2P	364	60	45	3560	67.5	93.0	0.32	435	1.05	91	309			
AG365/75-2P	365	75	55	3565	84.3		93.0	0.36			542.5	351		
AG405/100-2P	405	100	75		111	93.6	94.5	0.55	725	1.00	92	403		
AG444/125-2P	444	125	90	137	94.5	0.910		0.79	907.5			620		
AG445/150-2P	445	150	110	3570	164	95.0	0.97	1085	1.20	95	790			
AG447/200-2P	447	200	150		215		95.0	0.920			1.3	1450	850	
Synchronous Speed 1800 RPM 60Hz														
AG143/1-4P	143	1	0.75	1725	1.5	82.5	0.77	0.0067	16	2.75	3.0	60	30	
AG145/1.5-4P	145	1.5	1.1	1720	2.2	84.0		0.0091	20	2.50	2.80		32	
AG145/2-4P		2	1.5		2.8		0.8	0.017	25	2.35	2.70	36		
AG182/3-4P	182	3	2.2	1745	3.9	87.5	0.82	0.019	32	2.15	2.50	62	60	
AG184/5-4P	184	5	3.7	1740	6.5		0.83	0.028	46	1.85	2.25		68	
AG213/7.5-4P	213	7.5	5.5	1750	9.4	89.5	0.84	0.036	63.5	1.75	2.15	67	82	
AG215/10-4P	215	10	7.5	1745	12.5		0.84	0.073	81	1.65	90			
AG254/15-4P	254	15	11	1760	18.6	91.0	0.83	0.097	115	1.60	1.50	68	123	
AG256/20-4P	256	20	15	1755	24.5		0.84	0.18	145	144				
AG284/25-4P	284	25	18.5	1765	29.6	92.4	0.86	0.24	182.5	1.40	69	182		
AG286/30-4P	286	30	22	1760	35.5		0.86	0.40	217.5			190		
AG324/40-4P	324	40	30	1770	46.5	93.0	0.87	0.46	290	1.10	2.00	74	270	
AG326/50-4P	326	50	37		58.2			93.0	0.77				326.5	305
AG364/60-4P	364	60	45	1775	69.4	93.6	0.87	0.78	435	1.25	80	320		
AG365/75-4P	365	75	55		86.2			94.1	1.1			542.5	358	
AG405/100-4P	405	100	75	1780	114	94.5	0.88	1.4	725	1.25	83	550		
AG444/125-4P	444	125	90		141			94.5	2.4			907.5	660	
AG445/150-4P	445	150	110	1785	169	95.0	0.88	2.9	1085	1.25	92	830		
AG447/200-4P	447	200	150		223			95.0	3.5			1450	910	
Synchronous Speed 1800 RPM 60Hz														
AG145/1-6P	145	1	0.75	1150	1.7	80.0	0.68	0.0081	16	1.75	2.65	55	25	
AG182/1.5-6P	182	1.5	1.1	1160	2.2	85.5	0.75	0.011	20	1.70	2.50		30	
AG184/2-6P	184	2	1.5	1155	2.9	86.5		0.75	0.018	25	1.65	2.40	56	
AG213/3-6P	213	3	2.2	1170	4.2	87.5	0.77	0.035	32	1.60	2.30	58	56	
AG215/5-6P	215	5	3.7	1165	7.0			87.5	0.77	0.04	46		1.55	2.15
AG254/7.5-6P	254	7.5	5.5	1170	10.2	89.5	0.78	0.06	63.5	1.50	2.05	60	82	
AG256/10-6P	256	10	7.5		13.5			89.5	0.78				0.065	81
AG284/15-6P	284	15	11		19.3	90.2	0.81	0.81	0.16	115	1.40		63	119
AG286/20-6P	286	20	15		25.8				90.2	0.81				0.2
AG324/25-6P	324	25	18.5	1175	30.9	91.7	0.83	0.28	182.5	1.35	2.00	64	195	
AG326/30-6P	326	30	22		36.9			91.7	0.83				0.33	217.5
AG364/40-6P	364	40	30	1180	47.4	93.0	0.85	0.57	290	1.25	66	250		
AG365/50-6P	365	50	37		59.2			93.0	0.85			0.65	326.5	292
AG404/60-6P	404	60	45	1185	70.0	93.6	0.86	1.1	435	1.25	68	325		
AG405/75-6P	405	75	55		87.7			93.6	0.86			1.3	542.5	408
AG444/100-6P	444	100	75		116	94.1	94.1	0.86	2.4	725	1.25	74	452	
AG445/125-6P	445	125	90		145				94.1	0.86			2.9	907.5
AG447/150-6P	447	150	110	170	95.0	0.87	0.87	3.5	1085	1.20	74	830		

Dimensions for Foot-Mounted Motors with Single Straight-Shaft Extension inch

Frame Size	A Max	C	D	2E	2F	G	H	J	O	P	R	S	T	U	V Min	ES Min	AA NPT	AB	BA	N-W			
143T	7.0	12.5	3.5	5.5	4.0	0.512	0.34	1.45	7.7	7.4	0.771	0.188	--	0.875	2.00	1.41	3/4	7.6	2.3	2.25			
145T		13.5			5.0																		
182T	9.0	15.3	4.5	7.5	4.5	0.669	0.41	2.04	9.0	9.37	0.986	0.250	1.58	1.125	2.50	1.78		1	10.8	3.50	2.75		
184T		16.0			5.5																		
213T	10.5	19.0	5.25	8.5	5.5	0.787		0.53	2.45	10.5	10.9	1.201	0.312	1.97	1.375	3.12		2.41	1	10.8	3.50	3.38	
215T		22.5			7.0																		
254T	12.5	23.4	6.25	10.0	8.3	0.866			0.66	2.87	12.8	13.0	1.416	0.375	2.35	1.625	3.75	2.91	1.25	12.0	4.3	4.00	
256T		25.1			10.0																		
284T	14.0	28.0	7.0	11.0	9.5	0.80	2.756			14.5	14.1	1.591	0.5	2.5		1.875	4.38	3.28	1.5	13.2	4.8	4.62	
284TS		26.5			11.0																	1.416	0.375
286T		29.5			11.0			1.591								0.5	1.875	4.38				3.28	4.62
286TS		28.0			11.0			1.416								0.375	1.625	3.00				1.91	3.25
324T	16.0	30.3	8.0	12.5	10.5	1.11		0.66	16.0	15.6	1.845	0.5	2.5		2.125	5.0	3.91	2		14.8	5.3	5.25	
324TS		28.8			12.0																	1.591	0.5
326T		31.8			12.0		1.845							0.5	2.125	5.0	3.91		5.25				
326TS		30.3			12.0		1.591							0.5	1.875	3.5	2.03		3.75				
364T	18.0	33.2	9.0	14.0	11.3	1.25	2.953		18.4	17.6	2.021	0.625		2.5	2.375	5.62	4.28	16.1	5.9	5.88			
364TS		31			12.3															1.591	0.5	1.875	3.50
365T		34.2			12.3			2.021					0.625		2.375	5.62	4.28			5.88			
365TS		32			12.3			1.591					0.5		1.875	3.50	2.03			3.75			
404T	20.0	37.0	10.0	16.0	12.3	1.34		3.15	20.2	19.0	2.45	0.75	2.91		2.875	7.00	5.65	3	18.5	6.60	7.25		
404TS		34.0			13.8																1.845	0.5	2.125
405T		38.5			13.8		2.45							0.75	2.875	7.00	5.65				7.25		
405TS		35.5			13.8		1.845							0.5	2.125	4.00	2.78				4.25		
444T	22.0	42.8	11.0	18.0	14.5	1.38	0.81		21.8	21.6	2.88	0.875		2.91	3.375	8.25	6.91	19.5	7.50	8.50			
444TS		39.0			16.5															2.021	0.625	2.375	4.50
445T		44.8			16.5			2.88					0.875		3.375	8.25	6.91			8.50			
445TS		41.0			16.5			2.021					0.625		2.375	4.50	3.03			4.75			
447T		48.3			20.0			2.88	0.875	3.375	8.25	6.91	8.50										
447TS		44.5			20.0			2.021	0.625	2.375	4.50	3.03	4.75										
449T		53.3			25.0		2.88	0.875	3.375	8.25	6.91	8.50											
449TS		49.5			25.0		2.021	0.625	2.375	4.50	3.03	4.75											

Dimensions for C Face Foot-Mounted or Footless Motors inch

Frame Size	AL	AK	BA	BB (Min)	BC	BD (Max)	BF Hole			U	AH	Key seat		
							Num	Tap	Bolt			R	'ES	S
143TC 145TC	5.875	4.5	2.75	0.16	0.12	6.50	4	3/8-16	0.56	0.875	2.12	0.771	1.41	0.188
182TC 184TC	7.25	8.5	3.50	0.25	0.12	9.00	4	1/2-13	0.75	1.125	2.62	0.986	1.78	0.250
182TCH 184TCH	5.875	4.5	3.50	0.16	0.12	6.50	4	3/8-16	0.56	1.125	2.62	0.986	1.78	0.250
213TC 215TC	7.250	8.5	4.25	0.25	0.25	9.00	4	1/2-13	0.75	1.375	3.12	1.201	2.41	0.312
254TC 256TC	7.250	8.5	4.75	0.25	0.25	10.00	4	1/2-13	0.75	1.625	3.75	1.416	2.91	0.375
284TC 286TC	9.000	10.5	4.75	0.25	0.25	11.25	4	1/2-13	0.75	1.875	4.38	1.591	3.28	0.500
284TSC 286TSC	9.000	10.5	4.75	0.25	0.25	11.25	4	1/2-13	0.75	1.625	3.00	1.416	1.91	0.375
324TC 326TC	11.000	12.5	5.25	0.25	0.25	14.00	4	5/8-11	0.94	2.125	5.00	1.845	3.91	0.500
324TC 326TC	11.000	12.5	5.25	0.25	0.25	14.00	4	5/8-11	0.94	1.875	3.50	1.951	2.03	0.500
364TC 365TC	11.000	12.5	5.88	0.25	0.25	14.00	8	5/8-11	0.94	2.375	5.62	2.021	4.28	0.625
364TSC 365TSC	11.000	12.5	5.88	0.25	0.25	14.00	8	5/8-11	0.94	1.875	3.50	1.591	2.03	0.500
404TC 405TC	11.000	12.5	6.62	0.25	0.25	15.50	8	5/8-11	0.94	2.875	7.00	2.450	5.65	0.75
404TSC 405TSC	11.000	12.5	6.62	0.25	0.25	15.50	8	5/8-11	0.94	2.125	4.00	1.845	2.78	0.500
444TC 445TC	14.000	16.0	7.50	0.25	0.25	18.00	8	5/8-11	0.94	3.375	8.25	2.880	6.91	0.875
444TSC 445TSC	14.000	16.0	7.50	0.25	0.25	18.00	8	5/8-11	0.94	3.375	4.50	2.021	3.03	0.625
447TC 449TC	14.000	16.0	7.50	0.25	0.25	18.00	8	5/8-11	0.94	3.375	8.25	2.880	6.91	0.875
447TSC 449TSC	14.000	16.0	7.50	0.25	0.25	18.00	8	5/8-11	0.94	3.375	4.50	2.021	3.03	0.625
447TZC 449TZC	14.000	16.0	7.50	0.25	0.25	18.00	8	5/8-11	0.94	3.375	9.88	2.880	8.54	0.875

Dimensions for D Face Foot-Mounted or Footless Motors inch

Frame Size	AJ	Ak	BA	BB (Min)	BC	BD (Max)	BE Nom.	BF Hole			U	AH	Key seat			
								Number	Tap Size	Recommended Bolt Length			R	'ES Min	S	
143TD 145TD	10	9	2.75	0.25	0	11	0.5	4	0.53	1.25	0.875	2.25	0.771	1.41	0	
182TD 184TD			3.5								1.125	2.75	0.986	1.78	0	
213TD 215TD			4.25								1.375	3.38	1.201	2.41	0	
254TD 256TD	12	11	4.75			14	0.75				2	1.625	4.00	1.416	2.91	0
284TD 286TD												1.875	4.62	1.591	3.28	0
284TSD 286TSD												1.625	3.25	1.416	1.91	0
324TD 326TD	16	14	5.25			18	1	8	0.81	2	2.125	5.25	1.845	3.91	0	
324TSD 326TSD			1.875								3.75	1.591	2.03	0		
364TD 365TD			5.88								2.375	5.88	2.021	4.28	0	
364TSD 365TSD	20	18	6.62			22	1	8	2.25	2.25	1.875	3.75	1.591	2.03	0	
404TD 405TD				2.875	7.25						2.450	5.65	0			
404TSD 405TSD				2.125	4.25						1.845	2.78	0			
444TD 445TD				3.375	8.50						2.880	6.91	0			
444TSD 445TSD	20	18	7.5	22	1	8	2.25	2.25	2.375	4.75	2.021	3.03	0			
444TSD 445TSD									2.375	4.75	2.021	3.03	0			

