



CNE

NEMA

NSHE Series

Premium

Efficiency

Motor

NSHE SERIES

NEMA Premium Efficiency

Three Phase Induction Motor

Frame 143-5011

Output 1-500HP

 **WOLONG**[®]



WOLONGANG ELECTRIC

NANYANG EXPLOSION PROTECTION GROUP CO. LTD

Effective: 2017-05-16

1. General Descriptions

NSHE series Premium Efficiency three phase induction motors (Frame 143-5011) are developed by Wolong Electric NANYANG EXPLOSION PROTECTION GROUP CO. LTD in line with NEMA Standards, which ratings, mounting dimensions and electrical performances meet the requirements of latest NEMA Standards. These motors possess many remarkable features such as premium efficiency, low noise, little vibration, large margin of safety in temperature rise, popular shape, safe and reliable operation.

- 1 HP to 500HP
- 143T~5011
- 3600,1800,1200,900 RPM @ 60Hz,
3000,1500, 1000,750 RPM @ 50Hz.
- NEMA Premium Efficiency
- NEMA Design B
- TEFC
- IP66
- Department of Energy Efficiency Certification CC039B
- CSA C US Energy Verified
- CSA Certified for Class I , Division 2, Group A, B, C and D, Class I, Zone 2, IIC;
Class II, Division 2, Group F and G; Class II, Zone 22;
- Temperature Code: T3C @40°C Ambient; T3B @ 55°C Ambient.
- CSA Certified for inverter duty, speed ranges: CT 5:1, VT 10:1, CP 1:1.5.
- Class F insulation with B rise @1.0 SF
- 1.15 Service factor -Continuous
- 3 phase,208-230/460V, 460V and 575V @ 60Hz, 380V and 415V @ 50Hz
- NEMA Premium efficiency standards @ 60Hz
- Continuous Duty
- Maximum ambient 40 °C
- Altitude up to 3300 ft (1000 m).
- Oversized Main Conduit box Rotatable in 90 Degree, NPT Threaded
- F1 mounted, F2 available,
F1/F2 Convertible
- Bi-Direction Rotation for 1-200HP;
Unidirectional CCW Facing the Drive-end, for 2 Pole Motors 250HP and Larger,
CW rotation is required.
- Bearings open with covers are adopted for frame 143T ~ 5000 motors. Such
motors are fitted with re-greasing nipples. Stainless steel automatic breather drains
- Labyrinth Type bronze seals both ends
- Non Sparking, Non Static fan of plastics, cast aluminum is required.

Type Designation, for example: NSHE284TS-2 25HP

N: as per NEMA Standard,

SHE: NEMA Premium Efficiency

28: Shaft Height Code

4: Number Code Related to 2F Dimension

T: Standard Dimensional Shaft

S: Standard Short Shaft for Direct Coupling

2: Number of Poles

3. Technical Data

3.1 The correlation between output and frame size, see Table 1.

Table 1 The correlation between output and frame size

HP	Synchronous speed (rpm)			
	3600 or 3000	1800 or 1500	1200 or 1000	900 or 750
	Frame			
1	—	143T	145T	182T
1.5	143T	145T	182T	184T
2	145T	145T	184T	213T
3	182T	182T	213T	215T
5	184T	184T	215T	254T
7.5	213T	213T	254T	256T
10	215T	215T	256T	284T
15	254T	254T	284T	286T
20	256T	256T	286T	324T
25	284TS	284TS	324T	326T
		284T		
30	286TS	286TS	326T	364T
		284T		
40	324TS	324TS	364T	365T
	324T	324T		
50	326TS	326TS	365T	404T
	326T	326T		
60	364TS	364TS	404T	404T
	364T	364T		

Table 1 The correlation between output and frame size (Continued)

HP	Synchronous speed (rpm)			
	3600 or 3000	1800 or 1500	3600 or 3000	900 or 750
	Frame			
75	365TS	365TS	405T	444T
	365T	365T		
100	405TS	405TS	444T	445T
		405T		
125	444TS	444TS	445T	447T
		444T		
150	445TS	445TS	447T	449T
		445T		
200	447TS	447TS	449T	449T
		447T		5009U
250	449TS	449T	449T	449T
			5009U	5009U
300	449TS	449T	449T	5011U
	5009U	5009U	5009U	
350	449TS	449T	5011U	5011U
	5009U	5009U		
400	449TS	449T	5011U	---
	5009U	5009U		
450	5011U	5011U	---	---
500	5011U	5011U	---	---



3.2 Electrical performances at 460V 60Hz see Table 2.

Table 2 Performances at 460V 60Hz

HP	kW	RPM	Frame	FLA (460V)	KVAR CODE	Rotor Inertia (kg. m ²)	Efficiency (%)				Power Factor (%)	LRT (%)	BDT (%)	Motor weight (kg.)
							1/2 load	3/4 load	Full load					
									Nom.	Min.				
1	0.75	1800	143T	1.4	N	0.0067	81.3	84.5	85.5	82.5	78.5	311	412	31
1	0.75	1200	145T	1.6	N	0.0081	78.0	81.0	82.5	80.0	66.0	342	341	32
1	0.75	900	182T	2.4	N	0.013	72.0	75.0	75.5	72.0	65.0	150	280	36
1.5	1.1	3600	143T	1.8	M	0.0026	83.5	85.1	84.0	81.5	84.5	289	378	29
1.5	1.1	1800	145T	2.0	M	0.0091	83.0	86.0	86.5	84.0	79.0	291	377	31
1.5	1.1	1200	182T	2.3	M	0.011	84.5	87.0	87.5	85.5	71.0	239	341	38
1.5	1.1	900	184T	3.2	M	0.019	75.0	78.0	78.5	75.5	68.0	140	210	38
2	1.5	3600	145T	2.4	L	0.0035	85.3	86.0	85.5	82.5	86.0	219	252	37
2	1.5	1800	145T	2.6	L	0.017	84.0	86.0	86.5	84.0	83.7	250	298	40
2	1.5	1200	184T	2.9	L	0.018	86.0	88.0	88.5	86.5	73.0	249	324	45
2	1.5	900	213T	3.1	L	0.038	78.0	80.0	84.0	81.5	69.0	130	210	70
3	2.2	3600	182T	3.5	K	0.0089	85.5	87.0	86.5	84.0	87.0	187	307	52
3	2.2	1800	182T	3.7	K	0.019	87.5	89.0	89.5	87.5	77.0	232	322	52
3	2.2	1200	213T	4.0	K	0.035	87.5	89.0	89.5	87.5	71.0	295	349	92
3	2.2	900	215T	4.5	K	0.05	80.0	84.0	85.5	82.5	69.0	130	210	85
5	3.7	3600	184T	5.7	J	0.015	85.0	87.0	88.5	86.5	85.0	177	306	57
5	3.7	1800	184T	6.0	J	0.028	87.0	89.2	89.5	87.5	81.0	187	265	57
5	3.7	1200	215T	6.3	J	0.04	85.0	89.5	89.5	87.5	75.0	222	275	112
5	3.7	900	254T	6.9	J	0.065	86.0	88.0	86.5	84.0	71.0	150	260	140
7.5	5.5	3600	213T	8.2	H	0.033	85.0	90.0	89.5	87.5	86.0	181	262	88
7.5	5.5	1800	213T	8.9	H	0.036	89.0	91.5	91.7	90.2	84.0	239	302	100
7.5	5.5	1200	254T	8.6	H	0.06	89.0	91.0	91.0	89.5	78.0	206	289	160
7.5	5.5	900	256T	10.1	H	0.07	87.0	87.0	86.5	84.0	73.0	196	291	170
10	7.5	3600	215T	11.2	H	0.038	89.0	90.2	90.2	88.5	88.0	183	264	88
10	7.5	1800	215T	12.0	H	0.073	90.0	92.0	91.7	90.2	82.0	251	266	100
10	7.5	1200	256T	12.1	H	0.065	89.0	90.0	91.0	89.5	81.0	204	289	256
10	7.5	900	284T	13.7	H	0.18	87.0	89.0	89.5	87.5	72.0	125	230	220
15	11	3600	254T	16.5	G	0.058	89.0	90.0	91.0	89.5	86.0	221	268	175
15	11	1800	254T	16.6	G	0.097	89.0	90.0	92.4	91.0	87.0	196	267	175
15	11	1200	284T	17.3	G	0.16	90.0	92.0	91.7	90.2	82.0	210	248	230
15	11	900	286T	19.7	G	0.26	88.0	89.6	89.5	87.5	74.0	125	225	232
20	15	3600	256T	22.3	G	0.065	88.0	90.0	91.0	89.5	88.0	206	245	175
20	15	1800	256T	22.6	G	0.18	90.0	92.0	93.0	91.7	87.0	193	248	205
20	15	1200	286T	23.4	G	0.2	89.0	91.5	91.7	90.2	81.0	155	240	245
20	15	900	324T	25.5	G	0.3	89.0	90.1	90.2	88.5	78.0	125	200	285
25	18.5	3600	284TS	27.5	G	0.082	91.5	91.9	91.7	90.2	88.0	170	261	225
25	18.5	1800	284TS	27.5	G	0.24	93.1	93.6	93.6	92.4	85.0	171	251	234
25	18.5	1800	284T	27.5	G	0.24	93.1	93.6	93.6	92.4	85.0	171	251	234
25	18.5	1200	324T	29.4	G	0.28	92.8	93.2	93.0	91.7	83.0	180	250	290
25	18.5	900	326T	31.0	G	0.36	89.0	90.5	90.2	88.5	78.0	125	200	292
30	22	3600	286TS	32.7	G	0.098	91.5	91.9	91.7	90.2	89.0	179	265	225
30	22	1800	286TS	32.7	G	0.4	93.1	93.7	93.6	92.4	87.0	172	251	245
30	22	1800	286T	32.7	G	0.4	93.1	93.7	93.6	92.4	87.0	172	251	245
30	22	1200	326T	34.7	G	0.33	92.8	93.2	93.0	91.7	78.0	158	238	310
30	22	900	364T	36.8	G	0.6	89.0	92.0	91.7	90.2	77.0	178	247	425



Table 2 Performances at 460V 60Hz(Continued)

HP	kW	RPM	Frame	FLA (460V)	KVAR CODE	Rotor Inertia (kg. m ²)	Efficiency (%)				Power Factor (%)	LRT (%)	BDT (%)	Motor weight (kg.)
							1/2 load	3/4 load	Full load					
									Nom.	Min.				
40	30	3600	324TS	44.2	G	0.15	91.8	92.4	92.4	91.0	88.0	169	238	340
40	30	3600	324T	44.2	G	0.15	91.8	92.4	92.4	91.0	88.0	169	238	340
40	30	1800	324TS	44.7	G	0.46	93.9	94.2	94.1	93.0	85.0	186	252	350
40	30	1800	324T	44.7	G	0.46	93.9	94.2	94.1	93.0	85.0	186	252	350
40	30	1200	364T	45.7	G	0.57	93.9	94.3	94.1	93.0	83.0	219	264	425
40	30	900	365T	49.9	G	0.69	91.0	92.0	91.7	90.2	78.0	160	230	425
50	37	3600	326TS	54.2	G	0.18	92.4	93.0	93.0	91.7	88.0	184	243	330
50	37	3600	326T	54.2	G	0.18	92.4	93.0	93.0	91.7	88.0	184	243	330
50	37	1800	326TS	54.8	G	0.77	94.2	94.6	94.5	93.6	85.0	173	263	360
50	37	1800	326T	54.8	G	0.77	94.2	94.6	94.5	93.6	85.0	173	263	360
50	37	1200	365T	56.5	G	0.65	93.9	94.3	94.1	93.0	83.0	209	256	440
50	37	900	404T	60.9	G	1.5	90.0	92.0	92.4	91.0	80.0	125	200	538
60	45	3600	364TS	65.5	G	0.32	93.1	93.6	93.6	92.4	88.0	159	267	390
60	45	3600	364T	65.5	G	0.32	93.1	93.6	93.6	92.4	88.0	159	267	390
60	45	1800	364TS	66.3	G	0.87	94.2	94.9	95.0	94.1	85.0	195	270	431
60	45	1800	364T	66.3	G	0.87	94.2	94.9	95.0	94.1	85.0	195	270	431
60	45	1200	404T	68.9	G	1.1	94.1	94.5	94.5	93.6	83.0	187	234	540
60	45	900	405T	73.4	G	1.5	90.0	91.5	92.4	91.0	80.0	125	200	518
75	55	3600	365TS	79.6	G	0.36	93.2	93.6	93.6	92.4	88.0	172	277	470
75	55	3600	365T	79.6	G	0.36	93.2	93.6	93.6	92.4	88.0	172	277	470
75	55	1800	365TS	81.1	G	1.1	94.5	95.3	95.4	94.5	85.0	211	275	430
75	55	1800	365T	81.1	G	1.1	94.5	95.3	95.4	94.5	85.0	211	275	430
75	55	1200	405T	84.1	G	1.3	94.2	94.6	94.5	93.6	83.0	197	251	542
75	55	900	444T	87.6	G	2.7	92.0	93.8	93.6	92.4	81.0	142	221	737
100	75	3600	405TS	109.0	G	0.55	93.7	94.1	94.1	93.0	89.0	159	279	557
100	75	1800	405TS	108.5	G	1.4	94.8	95.4	95.4	94.5	87.0	199	247	598
100	75	1800	405T	108.5	G	1.4	94.8	95.4	95.4	94.5	87.0	199	247	598
100	75	1200	444T	111.7	G	2.4	94.7	95.1	95.0	94.1	84.0	152	241	743
100	75	900	445T	119.7	G	3.3	92.0	94.1	93.6	92.4	80.0	130	210	745
125	90	3600	444TS	129.4	G	0.79	94.2	94.8	95.0	94.1	89.0	153	268	754
125	90	1800	444TS	132.3	G	2.4	94.8	95.4	95.4	94.5	85.0	188	271	765
125	90	1800	444T	132.3	G	2.4	94.8	95.4	95.4	94.5	85.0	188	271	765
125	90	1200	445T	133.7	G	2.9	94.7	95.1	95.0	94.1	84.0	148	246	792
125	90	900	447T	140.8	G	3.8	92.0	93.6	94.1	93.0	82.0	120	200	1043
150	110	3600	445TS	158.5	G	0.97	94.4	94.9	95.0	94.1	87.0	150	256	800
150	110	1800	445TS	160.2	G	2.9	95.7	95.8	95.8	95.0	86.0	164	262	830
150	110	1800	445T	160.2	G	2.9	95.7	95.8	95.8	95.0	86.0	164	262	830
150	110	1200	447T	166.1	G	3.5	95.3	95.8	95.8	95.0	82.0	210	252	1095
150	110	900	449T	173.7	G	4.5	91.8	93.8	94.1	93.0	82.0	120	200	1055
200	150	3600	447TS	214.6	G	1.3	95.0	95.4	95.4	94.5	87.0	168	264	1050
200	150	1800	447TS	220.0	G	3.5	95.8	96.2	96.2	95.4	85.0	187	275	1155
200	150	1800	447T	220.0	G	3.5	95.8	96.2	96.2	95.4	85.0	187	275	1155
200	150	1200	449T	227.1	G	4.3	95.5	95.9	95.8	95.0	82.0	157	263	1145
200	150	900	449T	234.9	G	6.11	93.0	93.2	94.5	93.6	83.0	120	200	1248
200	150	900	5009U	239.9	G	10.54	93.0	93.5	94.5	93.6	80.0	120	200	1798



Table 2 Performances at 460V 60Hz(Continued)

HP	kW	RPM	Frame	FLA (460V)	KVAR CODE	Rotor Inertia (kg. m ²)	Efficiency (%)				Power Factor (%)	LRT (%)	BDT (%)	Motor weight (kg.)
							1/2 load	3/4 load	Full load					
									Nom.	Min.				
250	185	3600	449TS	263.3	G	1.6	95.3	95.7	95.8	95.0	87.0	200	280	1140
250	185	1800	449T	271.9	G	5.15	94.5	95.0	96.2	95.4	85.0	200	260	1500
250	185	1200	449T	280.6	G	6.44	95.0	95.2	95.8	95.0	84.0	120	175	1145
250	185	1200	5009U	271.9	G	11.35	94.0	94.5	95.8	95.0	85.0	150	190	1817
250	185	900	449T	289.4	G	6.87	93.2	93.8	95.0	94.1	82.0	140	175	1258
250	185	900	5009U	293.6	G	11.76	93.0	93.6	95.0	94.1	80.0	166	180	1812
300	220	3600	449TS	312.8	G	2.88	94.0	94.5	95.8	95.0	88.0	130	250	1310
300	220	3600	5009U	312.5	G	4.21	94.4	94.8	95.8	95.0	90.0	140	252	1864
300	220	1800	449T	322.8	G	5.15	94.8	96.0	96.2	95.4	86.0	140	180	1320
300	220	1800	5009U	326.5	G	5.84	94.7	95.1	96.2	95.4	85.0	100	200	1851
300	220	1200	449T	334.6	G	7.2	95.2	95.5	95.8	95.0	84.0	120	140	1307
300	220	1200	5009U	323.5	G	11.76	95.2	95.4	95.8	95.0	86.0	170	180	1821
300	220	900	5011U	348.1	G	13.18	94.3	94.5	95.0	94.1	81.0	160	180	1829
350	260	3600	449TS	373.2	G	3.13	95.0	95.5	95.8	95.0	88.0	177	344	1310
350	260	3600	5009U	364.9	G	4.86	94.3	94.5	95.8	95.0	81.0	100	210	1877
350	260	1800	449T	382.8	G	5.4	95.8	96.0	96.2	95.4	86.0	140	170	1325
350	260	1800	5009U	386.9	G	6.06	94.8	95.0	96.2	95.4	85.0	100	190	1856
350	260	1200	5011U	381.7	G	12.97	95.0	95.5	95.8	95.0	86.0	170	180	1809
350	260	900	5011U	410.8	G	15.2	94.0	94.5	95.0	94.1	81.0	165	180	1850
400	300	3600	449TS	428.8	G	3.28	95.3	95.5	95.8	95.0	88.0	120	220	1310
400	300	3600	5009U	420.0	G	5.63	94.5	95.0	95.8	95.0	91.0	110	140	1864
400	300	1800	449T	442.2	G	5.73	95.9	96.0	96.2	95.4	85.0	150	170	1331
400	300	1800	5009U	445.6	G	6.5	95.0	95.1	96.2	95.4	85.0	100	180	1866
400	300	1200	5011U	439.6	G	14.6	95.0	95.5	95.0	94.1	86.0	180	185	1854
450	335	3600	5011U	468.5	G	5.63	94.9	95.2	95.8	95.0	90.0	120	210	1892
450	335	1800	5011U	495.5	G	7.15	95.1	95.4	96.2	95.4	86.0	170	210	1880
500	375	3600	5011U	520.8	G	6.71	95.1	95.4	95.8	95.0	90.0	150	250	1914
500	375	1800	5011U	553.5	G	8.03	95.0	95.5	96.2	95.4	86.0	210	230	1900



3.3 Electrical performances at 575V 60Hz see Table 3.

Table 3 Performances at 575V 60Hz

HP	kW	RPM	Frame	FLA (575V)	KVAR CODE	Rotor Inertia (kg. m ²)	Efficiency (%)				Power Factor (%)	LRT (%)	BDT (%)	Motor weight (kg.)
							1/2 load	3/4 load	Full load					
									Nom.	Min.				
1	0.75	1800	143T	1.1	N	0.0067	81.3	84.5	85.5	82.5	78.5	311	412	31
1	0.75	1200	145T	1.2	N	0.0081	78.0	81.0	82.5	80.0	66.0	342	341	32
1	0.75	900	182T	1.4	N	0.013	72.0	75.0	75.5	72.0	65.0	150	280	36
1.5	1.1	3600	143T	1.4	M	0.0026	83.5	85.1	84.0	81.5	84.5	289	378	29
1.5	1.1	1800	145T	1.5	M	0.0091	83.0	86.0	86.5	84.0	79.0	291	377	31
1.5	1.1	1200	182T	1.7	M	0.011	84.5	87.0	87.5	85.5	71.0	239	341	38
1.5	1.1	900	184T	1.9	M	0.019	75.0	78.0	78.5	75.5	68.0	140	210	38
2	1.5	3600	145T	1.9	L	0.0035	85.3	86.0	85.5	82.5	86.0	219	252	37
2	1.5	1800	145T	2.1	L	0.017	84.0	86.0	86.5	84.0	83.7	250	298	40
2	1.5	1200	184T	2.2	L	0.018	86.0	88.0	88.5	86.5	73.0	249	324	45
2	1.5	900	213T	2.5	L	0.038	78.0	80.0	84.0	81.5	69.0	130	210	70
3	2.2	3600	182T	2.7	K	0.0089	85.5	87.0	86.5	84.0	87.0	187	307	52
3	2.2	1800	182T	2.9	K	0.019	87.5	89.0	89.5	87.5	77.0	232	322	52
3	2.2	1200	213T	3.2	K	0.035	87.5	89.0	89.5	87.5	71.0	295	349	92
3	2.2	900	215T	3.6	K	0.05	80.0	84.0	85.5	82.5	69.0	130	210	85
5	3.7	3600	184T	4.5	J	0.015	85.0	87.0	88.5	86.5	85.0	177	306	57
5	3.7	1800	184T	4.7	J	0.028	87.0	89.2	89.5	87.5	81.0	187	265	57
5	3.7	1200	215T	5.1	J	0.04	85.0	89.5	89.5	87.5	75.0	222	275	112
5	3.7	900	254T	5.6	J	0.065	86.0	88.0	86.5	84.0	71.0	150	260	140
7.5	5.5	3600	213T	6.5	H	0.033	85.0	90.0	89.5	87.5	86.0	181	262	88
7.5	5.5	1800	213T	7.1	H	0.036	89.0	91.5	91.7	90.2	84.0	239	302	100
7.5	5.5	1200	254T	6.8	H	0.06	89.0	91.0	91.0	89.5	78.0	206	289	160
7.5	5.5	900	256T	8.1	H	0.07	87.0	87.0	86.5	84.0	73.0	196	291	170
10	7.5	3600	215T	8.9	H	0.038	89.0	90.2	90.2	88.5	88.0	183	264	88
10	7.5	1800	215T	9.7	H	0.073	90.0	92.0	91.7	90.2	82.0	251	266	100
10	7.5	1200	256T	9.7	H	0.065	89.0	90.0	91.0	89.5	81.0	204	289	256
10	7.5	900	284T	10.9	H	0.18	87.0	89.0	89.5	87.5	72.0	125	230	220
15	11	3600	254T	13.1	G	0.058	89.0	90.0	91.0	89.5	86.0	221	268	175
15	11	1800	254T	13.3	G	0.097	89.0	90.0	92.4	91.0	87.0	196	267	175
15	11	1200	284T	13.9	G	0.16	90.0	92.0	91.7	90.2	82.0	210	248	230
15	11	900	286T	15.8	G	0.26	88.0	89.6	89.5	87.5	74.0	125	225	232
20	15	3600	256T	17.8	G	0.065	88.0	90.0	91.0	89.5	88.0	206	245	175
20	15	1800	256T	18.1	G	0.18	90.0	92.0	93.0	91.7	87.0	193	248	205
20	15	1200	286T	18.7	G	0.2	89.0	91.5	91.7	90.2	81.0	155	240	245
20	15	900	324T	20.3	G	0.3	89.0	90.1	90.2	88.5	78.0	125	200	285
25	18.5	3600	284TS	22.0	G	0.082	91.5	91.9	91.7	90.2	88.0	170	261	225
25	18.5	1800	284TS	22.0	G	0.24	93.1	93.6	93.6	92.4	85.0	171	251	234
25	18.5	1800	284T	22.0	G	0.24	93.1	93.6	93.6	92.4	85.0	171	251	234
25	18.5	1200	324T	23.5	G	0.28	92.8	93.2	93.0	91.7	83.0	180	250	290
25	18.5	900	326T	24.8	G	0.36	89.0	90.5	90.2	88.5	78.0	125	200	292
30	22	3600	286TS	26.2	G	0.098	91.5	91.9	91.7	90.2	89.0	179	265	225
30	22	1800	286TS	26.1	G	0.4	93.1	93.7	93.6	92.4	87.0	172	251	245
30	22	1800	286T	26.1	G	0.4	93.1	93.7	93.6	92.4	87.0	172	251	245
30	22	1200	326T	27.6	G	0.33	92.8	93.2	93.0	91.7	78.0	158	238	310
30	22	900	364T	29.6	G	0.6	89.0	92.0	91.7	90.2	77.0	178	247	425

Table 3 Performances at 575V 60Hz(Continued)

HP	kW	RPM	Frame	FLA (575V)	KVAR CODE	Rotor Inertia (kg. m ²)	Efficiency (%)				Power Factor (%)	LRT (%)	BDT (%)	Motor weight (kg.)
							1/2 load	3/4 load	Full load					
									Nom.	Min.				
40	30	3600	324TS	35.6	G	0.15	91.8	92.4	92.4	91.0	88.0	169	238	340
40	30	1800	324TS	35.8	G	0.46	93.9	94.2	94.1	93.0	85.0	186	252	350
40	30	1800	324T	35.8	G	0.46	93.9	94.2	94.1	93.0	85.0	186	252	350
40	30	1200	364T	36.5	G	0.57	93.9	94.3	94.1	93.0	83.0	219	264	425
40	30	900	365T	39.8	G	0.69	91.0	92.0	91.7	90.2	78.0	160	230	425
50	37	3600	326TS	43.4	G	0.18	92.4	93.0	93.0	91.7	88.0	184	243	330
50	37	3600	326T	43.4	G	0.18	92.4	93.0	93.0	91.7	88.0	184	243	330
50	37	1800	326TS	43.9	G	0.77	94.2	94.6	94.5	93.6	85.0	173	263	360
50	37	1800	326T	43.9	G	0.77	94.2	94.6	94.5	93.6	85.0	173	263	360
50	37	1200	365T	45.2	G	0.65	93.9	94.3	94.1	93.0	83.0	209	256	440
50	37	900	404T	48.7	G	1.5	90.0	92.0	92.4	91.0	80.0	125	200	538
60	45	3600	364TS	52.4	G	0.32	93.1	93.6	93.6	92.4	88.0	159	267	390
60	45	3600	364T	52.4	G	0.32	93.1	93.6	93.6	92.4	88.0	159	267	390
60	45	1800	364TS	53.1	G	0.87	94.2	94.9	95.0	94.1	85.0	195	270	431
60	45	1800	364T	53.1	G	0.87	94.2	94.9	95.0	94.1	85.0	195	270	431
60	45	1200	404T	55.1	G	1.1	94.1	94.5	94.5	93.6	83.0	187	234	540
60	45	900	405T	58.9	G	1.5	90.0	91.5	92.4	91.0	80.0	125	200	548
75	55	3600	365TS	63.6	G	0.36	93.2	93.6	93.6	92.4	88.0	172	277	470
75	55	3600	365T	63.6	G	0.36	93.2	93.6	93.6	92.4	88.0	172	277	470
75	55	1800	365TS	64.8	G	1.1	94.5	95.3	95.4	94.5	85.0	211	275	430
75	55	1800	365T	64.8	G	1.1	94.5	95.3	95.4	94.5	85.0	211	275	430
75	55	1200	405T	67.3	G	1.3	94.2	94.6	94.5	93.6	83.0	197	251	542
75	55	900	444T	70.1	G	2.7	92.0	93.8	93.6	92.4	81.0	142	221	737
100	75	3600	405TS	86.7	G	0.55	93.7	94.1	94.1	93.0	89.0	159	279	557
100	75	1800	405TS	86.9	G	1.4	94.8	95.4	95.4	94.5	87.0	199	247	598
100	75	1800	405T	86.9	G	1.4	94.8	95.4	95.4	94.5	87.0	199	247	598
100	75	1200	444T	89.3	G	2.4	94.7	95.1	95.0	94.1	84.0	152	241	743
100	75	900	445T	95.7	G	3.3	92.0	94.1	93.6	92.4	80.0	130	210	818
125	90	3600	444TS	103.6	G	0.79	94.2	94.8	95.0	94.1	89.0	153	268	754
125	90	1800	444TS	105.8	G	2.4	94.8	95.4	95.4	94.5	85.0	188	271	765
125	90	1800	444T	105.8	G	2.4	94.8	95.4	95.4	94.5	85.0	188	271	765
125	90	1200	445T	106.9	G	2.9	94.7	95.1	95.0	94.1	84.0	148	246	792
125	90	900	447T	112.6	G	3.8	92.0	93.6	94.1	93.0	82.0	120	200	859
150	110	3600	445TS	127.4	G	0.97	94.4	94.9	95.0	94.1	87.0	150	256	800
150	110	1800	445TS	128.3	G	2.9	95.7	95.8	95.8	95.0	86.0	164	262	830
150	110	1800	445T	128.3	G	2.9	95.7	95.8	95.8	95.0	86.0	164	262	830
150	110	1200	447T	132.9	G	3.5	95.3	95.8	95.8	95.0	82.0	210	252	1095
150	110	900	449T	139.5	G	4.5	91.8	93.8	94.1	93.0	82.0	120	200	1000
200	150	3600	447TS	172.0	G	1.3	95.0	95.4	95.4	94.5	87.0	168	264	1050
200	150	1800	447TS	176.1	G	3.5	95.8	96.2	96.2	95.4	85.0	187	275	1155
200	150	1800	447T	176.1	G	3.5	95.8	96.2	96.2	95.4	85.0	187	275	1155
200	150	1200	449T	181.5	G	4.3	95.5	95.9	95.8	95.0	82.0	157	263	1145
200	150	900	449T	187.7	G	6.11	93.0	93.2	94.5	93.6	83.0	120	200	1212
200	150	900	5009U	189.6	G	10.54	93.0	93.5	94.5	93.6	80.0	120	200	1371

Table 3 Performances at 575V 60Hz(Continued)

HP	kW	RPM	Frame	FLA (575V)	KVAR CODE	Rotor Inertia (kg. m ²)	Efficiency (%)				Power Factor (%)	LRT (%)	BDT (%)	Motor weight (kg.)
							1/2 load	3/4 load	Full load					
									Nom.	Min.				
250	185	3600	449TS	210.3	G	1.6	95.3	95.7	95.8	95.0	87.0	200	280	1140
250	185	1800	449T	217.9	G	5.15	94.5	95.0	96.2	95.4	85.0	200	260	1500
250	185	1200	449T	224.4	G	6.44	95.0	95.2	95.8	95.0	84.0	120	175	1145
250	185	1200	5009U	217.8	G	11.35	94.0	94.5	95.8	95.0	85.0	150	190	1484
250	185	900	449T	231.6	G	6.87	93.2	93.8	95.0	94.1	82.0	140	175	1350
250	185	900	5009U	234.3	G	11.76	93.0	93.6	95.0	94.1	80.0	166	180	1527
300	220	3600	449TS	250.5	G	2.88	94.0	94.5	95.8	95.0	88.0	130	250	1218
300	220	3600	5009U	248.9	G	4.21	94.4	94.8	95.8	95.0	90.0	140	252	1152
300	220	1800	449T	258.4	G	5.15	94.8	96.0	96.2	95.4	86.0	140	180	1339
300	220	1800	5009U	260.2	G	5.84	94.7	95.1	96.2	95.4	85.0	100	200	1376
300	220	1200	449T	267.1	G	7.2	95.2	95.5	95.8	95.0	84.0	120	140	1455
300	220	1200	5009U	259.6	G	11.76	95.2	95.4	95.8	95.0	86.0	170	180	1536
300	220	900	5011U	281.7	G	13.18	94.3	94.5	95.0	94.1	81.0	160	180	1710
350	260	3600	449TS	296.3	G	3.13	95.0	95.5	95.8	95.0	88.0	177	344	1310
350	260	3600	5009U	292.2	G	4.86	94.3	94.5	95.8	95.0	81.0	100	210	1307
350	260	1800	449T	306.3	G	5.4	95.8	96.0	96.2	95.4	86.0	140	170	1399
350	260	1800	5009U	308.8	G	6.06	94.8	95.0	96.2	95.4	85.0	100	190	1429
350	260	1200	5011U	305.9	G	12.97	95.0	95.5	95.8	95.0	86.0	170	180	1666
350	260	900	5011U	328.2	G	15.2	94.0	94.5	95.0	94.1	81.0	165	180	1968
400	300	3600	449TS	351.8	G	3.28	95.3	95.5	95.8	95.0	88.0	120	220	1402
400	300	3600	5009U	337.6	G	5.63	94.5	95.0	95.8	95.0	91.0	110	140	1152
400	300	1800	449T	353.6	G	5.73	95.9	96.0	96.2	95.4	85.0	150	170	1479
400	300	1800	5009U	353.8	G	6.5	95.0	95.1	96.2	95.4	85.0	100	180	1533
400	300	1200	5011U	351.8	G	14.6	95.0	95.5	95.0	94.1	86.0	180	185	1901
450	335	3600	5011U	377.2	G	5.63	94.9	95.2	95.8	95.0	90.0	120	210	1488
450	335	1800	5011U	393.8	G	7.15	95.1	95.4	96.2	95.4	86.0	170	210	1690
500	375	3600	5011U	417.9	G	6.71	95.1	95.4	95.8	95.0	90.0	150	250	1748
500	375	1800	5011U	441.8	G	8.03	95.0	95.5	96.2	95.4	86.0	210	230	1900



3.4 Electrical performances at 600V see Table 4.

Table 4 Performances at 600V 60Hz

HP	kW	RPM	Frame	FLA (600V)	KVAR CODE	Rotor Inertia (kg. m ²)	Efficiency (%)				Power Factor (%)	LRT (%)	BDT (%)	Motor weight (kg)
							1/2 load	3/4 load	Full load					
									Nom.	Min.				
1	0.75	1800	143T	1.0	N	0.0067	81.3	84.5	85.5	82.5	78.5	311	412	31
1	0.75	1200	145T	1.2	N	0.0081	78.0	81.0	82.5	80.0	66.0	342	341	32
1	0.75	900	182T	1.3	N	0.013	72.0	75.0	75.5	72.0	65.0	150	280	36
1.5	1.1	3600	143T	1.3	M	0.0026	83.5	85.1	84.0	81.5	84.5	289	378	29
1.5	1.1	1800	145T	1.4	M	0.0091	83.0	86.0	86.5	84.0	79.0	291	377	31
1.5	1.1	1200	182T	1.6	M	0.011	84.5	87.0	87.5	85.5	71.0	239	341	38
1.5	1.1	900	184T	1.8	M	0.019	75.0	78.0	78.5	75.5	68.0	140	210	38
2	1.5	3600	145T	1.8	L	0.0035	85.3	86.0	85.5	82.5	86.0	219	252	37
2	1.5	1800	145T	2.0	L	0.017	84.0	86.0	86.5	84.0	83.7	250	298	40
2	1.5	1200	184T	2.1	L	0.018	86.0	88.0	88.5	86.5	73.0	249	324	45
2	1.5	900	213T	2.4	L	0.038	78.0	80.0	84.0	81.5	69.0	130	210	70
3	2.2	3600	182T	2.6	K	0.0089	85.5	87.0	86.5	84.0	87.0	187	307	52
3	2.2	1800	182T	2.8	K	0.019	87.5	89.0	89.5	87.5	77.0	232	322	52
3	2.2	1200	213T	3.1	K	0.035	87.5	89.0	89.5	87.5	71.0	295	349	92
3	2.2	900	215T	3.5	K	0.05	80.0	84.0	85.5	82.5	69.0	130	210	85
5	3.7	3600	184T	4.3	J	0.015	85.0	87.0	88.5	86.5	85.0	177	306	57
5	3.7	1800	184T	4.5	J	0.028	87.0	89.2	89.5	87.5	81.0	187	265	57
5	3.7	1200	215T	4.9	J	0.04	85.0	89.5	89.5	87.5	75.0	222	275	112
5	3.7	900	254T	5.4	J	0.065	86.0	88.0	86.5	84.0	71.0	150	260	140
7.5	5.5	3600	213T	6.2	H	0.033	85.0	90.0	89.5	87.5	86.0	181	262	88
7.5	5.5	1800	213T	6.8	H	0.036	89.0	91.5	91.7	90.2	84.0	239	302	100
7.5	5.5	1200	254T	6.5	H	0.06	89.0	91.0	91.0	89.5	78.0	206	289	160
7.5	5.5	900	256T	7.8	H	0.07	87.0	87.0	86.5	84.0	73.0	196	291	170
10	7.5	3600	215T	8.5	H	0.038	89.0	90.2	90.2	88.5	88.0	183	264	88
10	7.5	1800	215T	9.3	H	0.073	90.0	92.0	91.7	90.2	82.0	251	266	100
10	7.5	1200	256T	9.3	H	0.065	89.0	90.0	91.0	89.5	81.0	204	289	256
10	7.5	900	284T	10.5	H	0.18	87.0	89.0	89.5	87.5	72.0	125	230	220
15	11	3600	254T	12.6	G	0.058	89.0	90.0	91.0	89.5	86.0	221	268	175
15	11	1800	254T	12.8	G	0.097	89.0	90.0	92.4	91.0	87.0	196	267	175
15	11	1200	284T	13.3	G	0.16	90.0	92.0	91.7	90.2	82.0	210	248	230
15	11	900	286T	15.1	G	0.26	88.0	89.6	89.5	87.5	74.0	125	225	232
20	15	3600	256T	17.1	G	0.065	88.0	90.0	91.0	89.5	88.0	206	245	175
20	15	1800	256T	17.4	G	0.18	90.0	92.0	93.0	91.7	87.0	193	248	205
20	15	1200	286T	17.9	G	0.2	89.0	91.5	91.7	90.2	81.0	155	240	245
20	15	900	324T	19.5	G	0.3	89.0	90.1	90.2	88.5	78.0	125	200	285
25	18.5	3600	284TS	21.1	G	0.082	91.5	91.9	91.7	90.2	88.0	170	261	225
25	18.5	1800	284TS	21.1	G	0.24	93.1	93.6	93.6	92.4	85.0	171	251	234
25	18.5	1800	284T	21.1	G	0.24	93.1	93.6	93.6	92.4	85.0	171	251	234
25	18.5	1200	324T	22.5	G	0.28	92.8	93.2	93.0	91.7	83.0	180	250	290
25	18.5	900	326T	23.8	G	0.36	89.0	90.5	90.2	88.5	78.0	125	200	292
30	22	3600	286TS	25.1	G	0.098	91.5	91.9	91.7	90.2	89.0	179	265	225
30	22	1800	286TS	25.0	G	0.4	93.1	93.7	93.6	92.4	87.0	172	251	245
30	22	1800	286T	25.0	G	0.4	93.1	93.7	93.6	92.4	87.0	172	251	245
30	22	1200	326T	26.5	G	0.33	92.8	93.2	93.0	91.7	78.0	158	238	310
30	22	900	364T	28.4	G	0.6	89.0	92.0	91.7	90.2	77.0	178	247	425



Table 4 Performances at 600V 60Hz(Continued)

HP	kW	RPM	Frame	FLA (600V)	KVAR CODE	Rotor Inertia (kg. m ²)	Efficiency (%)				Power Factor (%)	LRT (%)	BDT (%)	Motor weight (kg.)
							1/2 load	3/4 load	Full load					
									Nom.	Min.				
40	30	3600	324TS	34.1	G	0.15	91.8	92.4	92.4	91.0	88.0	169	238	340
40	30	3600	324T	34.1	G	0.15	91.8	92.4	92.4	91.0	88.0	169	238	340
40	30	1800	324TS	34.3	G	0.46	93.9	94.2	94.1	93.0	85.0	186	252	350
40	30	1800	324T	34.3	G	0.46	93.9	94.2	94.1	93.0	85.0	186	252	350
40	30	1200	364T	35.0	G	0.57	93.9	94.3	94.1	93.0	83.0	219	264	425
40	30	900	365T	38.1	G	0.69	91.0	92.0	91.7	90.2	78.0	160	230	425
50	37	3600	326TS	41.6	G	0.18	92.4	93.0	93.0	91.7	88.0	184	243	330
50	37	3600	326T	41.6	G	0.18	92.4	93.0	93.0	91.7	88.0	184	243	330
50	37	1800	326TS	42.1	G	0.77	94.2	94.6	94.5	93.6	85.0	173	263	360
50	37	1800	326T	42.1	G	0.77	94.2	94.6	94.5	93.6	85.0	173	263	360
50	37	1200	365T	43.3	G	0.65	93.9	94.3	94.1	93.0	83.0	209	256	440
50	37	900	404T	46.7	G	1.5	90.0	92.0	92.4	91.0	80.0	125	200	538
60	45	3600	364TS	50.2	G	0.32	93.1	93.6	93.6	92.4	88.0	159	267	390
60	45	3600	364T	50.2	G	0.32	93.1	93.6	93.6	92.4	88.0	159	267	390
60	45	1800	364TS	50.9	G	0.87	94.2	94.9	95.0	94.1	85.0	195	270	431
60	45	1800	364T	50.9	G	0.87	94.2	94.9	95.0	94.1	85.0	195	270	431
60	45	1200	404T	52.8	G	1.1	94.1	94.5	94.5	93.6	83.0	187	234	540
60	45	900	405T	56.5	G	1.5	90.0	91.5	92.4	91.0	80.0	125	200	548
75	55	3600	365TS	61.0	G	0.36	93.2	93.6	93.6	92.4	88.0	172	277	470
75	55	3600	365T	61.0	G	0.36	93.2	93.6	93.6	92.4	88.0	172	277	470
75	55	1800	365TS	62.1	G	1.1	94.5	95.3	95.4	94.5	85.0	211	275	430
75	55	1800	365T	62.1	G	1.1	94.5	95.3	95.4	94.5	85.0	211	275	430
75	55	1200	405T	64.5	G	1.3	94.2	94.6	94.5	93.6	83.0	197	251	542
75	55	900	444T	67.2	G	2.7	92.0	93.8	93.6	92.4	81.0	142	221	737
100	75	3600	405TS	83.1	G	0.55	93.7	94.1	94.1	93.0	89.0	159	279	557
100	75	1800	405TS	83.3	G	1.4	94.8	95.4	95.4	94.5	87.0	199	247	598
100	75	1800	405T	83.3	G	1.4	94.8	95.4	95.4	94.5	87.0	199	247	598
100	75	1200	444T	85.6	G	2.4	94.7	95.1	95.0	94.1	84.0	152	241	743
100	75	900	445T	91.7	G	3.3	92.0	94.1	93.6	92.4	80.0	130	210	818
125	90	3600	444TS	99.3	G	0.79	94.2	94.8	95.0	94.1	89.0	153	268	754
125	90	1800	444TS	101.4	G	2.4	94.8	95.4	95.4	94.5	85.0	188	271	765
125	90	1800	444T	101.4	G	2.4	94.8	95.4	95.4	94.5	85.0	188	271	765
125	90	1200	445T	102.5	G	2.9	94.7	95.1	95.0	94.1	84.0	148	246	792
125	90	900	447T	107.9	G	3.8	92.0	93.6	94.1	93.0	82.0	120	200	859
150	110	3600	445TS	122.1	G	0.97	94.4	94.9	95.0	94.1	87.0	150	256	800
150	110	1800	445TS	123.0	G	2.9	95.7	95.8	95.8	95.0	86.0	164	262	830
150	110	1800	445T	123.0	G	2.9	95.7	95.8	95.8	95.0	86.0	164	262	830
150	110	1200	447T	127.4	G	3.5	95.3	95.8	95.8	95.0	82.0	210	252	1095
150	110	900	449T	133.7	G	4.5	91.8	93.8	94.1	93.0	82.0	120	200	1000
200	150	3600	447TS	164.8	G	1.3	95.0	95.4	95.4	94.5	87.0	168	264	1050
200	150	1800	447TS	168.8	G	3.5	95.8	96.2	96.2	95.4	85.0	187	275	1155
200	150	1800	447T	168.8	G	3.5	95.8	96.2	96.2	95.4	85.0	187	275	1155
200	150	1200	449T	173.9	G	4.3	95.5	95.9	95.8	95.0	82.0	157	263	1145
200	150	900	449T	179.9	G	6.11	93.0	93.2	94.5	93.6	83.0	120	200	1212
200	150	900	5009U	181.7	G	10.54	93.0	93.5	94.5	93.6	80.0	120	200	1371



Table 4 Performances at 600V 60Hz(Continued)

HP	kW	RPM	Frame	FLA (600V)	KVAR CODE	Rotor Inertia (kg. m ²)	Efficiency (%)				Power Factor (%)	LRT (%)	BDT (%)	Motor weight (kg.)
							1/2 load	3/4 load	Full load					
									Nom.	Min.				
250	185	3600	449TS	201.5	G	1.6	95.3	95.7	95.8	95.0	87.0	200	280	1140
250	185	1800	449T	208.8	G	5.15	94.5	95.0	96.2	95.4	85.0	200	260	1500
250	185	1200	449T	215.1	G	6.44	95.0	95.2	95.8	95.0	84.0	120	175	1145
250	185	1200	5009U	208.7	G	11.35	94.0	94.5	95.8	95.0	85.0	150	190	1484
250	185	900	449T	222.0	G	6.87	93.2	93.8	95.0	94.1	82.0	140	175	1350
250	185	900	5009U	224.5	G	11.76	93.0	93.6	95.0	94.1	80.0	166	180	1527
300	220	3600	449TS	240.1	G	2.88	94.0	94.5	95.8	95.0	88.0	130	250	1218
300	220	3600	5009U	238.5	G	4.21	94.4	94.8	95.8	95.0	90.0	140	252	1152
300	220	1800	449T	247.6	G	5.15	94.8	96.0	96.2	95.4	86.0	140	180	1339
300	220	1800	5009U	249.4	G	5.84	94.7	95.1	96.2	95.4	85.0	100	200	1376
300	220	1200	449T	256.0	G	7.2	95.2	95.5	95.8	95.0	84.0	120	140	1455
300	220	1200	5009U	248.8	G	11.76	95.2	95.4	95.8	95.0	86.0	170	180	1536
300	220	900	5011U	270.0	G	13.18	94.3	94.5	95.0	94.1	81.0	160	180	1710
350	260	3600	449TS	284.0	G	3.13	95.0	95.5	95.8	95.0	88.0	177	344	1310
350	260	3600	5009U	280.0	G	4.86	94.3	94.5	95.8	95.0	81.0	100	210	1307
350	260	1800	449T	293.5	G	5.4	95.8	96.0	96.2	95.4	86.0	140	170	1399
350	260	1800	5009U	295.9	G	6.06	94.8	95.0	96.2	95.4	85.0	100	190	1429
350	260	1200	5011U	293.2	G	12.97	95.0	95.5	95.8	95.0	86.0	170	180	1666
350	260	900	5011U	314.5	G	15.2	94.0	94.5	95.0	94.1	81.0	165	180	1968
400	300	3600	449TS	337.1	G	3.28	95.3	95.5	95.8	95.0	88.0	120	220	1402
400	300	3600	5009U	323.5	G	5.63	94.5	95.0	95.8	95.0	91.0	110	140	1152
400	300	1800	449T	338.9	G	5.73	95.9	96.0	96.2	95.4	85.0	150	170	1479
400	300	1800	5009U	339.1	G	6.5	95.0	95.1	96.2	95.4	85.0	100	180	1533
400	300	1200	5011U	337.1	G	14.6	95.0	95.5	95.0	94.1	86.0	180	185	1901
450	335	3600	5011U	361.5	G	5.63	94.9	95.2	95.8	95.0	90.0	120	210	1488
450	335	1800	5011U	377.4	G	7.15	95.1	95.4	96.2	95.4	86.0	170	210	1690
500	375	3600	5011U	400.5	G	6.71	95.1	95.4	95.8	95.0	90.0	150	250	1748
500	375	1800	5011U	423.4	G	8.03	95.0	95.5	96.2	95.4	86.0	210	230	1900



4. Mounting & Overall Dimensions, see Table 5 (Fig 1) and Table 6 (Fig 2).

Table 5 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	15.2	3.5	5.5	4.0	0.40	0.34	1.35	7.7	7.8	0.771	0.188		0.875	2.00	1.42	0.75	7.6	2.25	2.25				
145T					5.0																			
182T	9.0	18.1	4.5	7.5	4.5	0.55		1.75	9.0	10.2	0.986	0.250	1.58	1.125	2.50	1.78	1	8.9	2.75	2.75				
184T					5.5																			
213T	10.5	20.6	5.25	8.5	5.5	0.7	0.41	2.35	10.5	11.7	1.201	0.312	1.97	1.375	3.12	2.41	1	10.8	3.50	3.38				
215T					7.0																			
254T	12.5	24.8	6.25	10	8.25	0.8	0.53	2.75	12.8	14.1	1.416	0.375	2.35	1.625	3.75	2.91	1.25	12.0	4.25	4.0				
256T					10.0																			
284T	14	28.5	7	11	9.5	0.8	0.53	2.75	14.5	16	1.591	0.5	2.35	1.875	4.38	3.28	1.5	13.2	4.75	4.62				
284TS		26.6			1.416						0.375	1.625		3.00	1.91	3.25								
286T		28.5			1.591						0.5	1.875		4.38	3.28	4.62								
286TS		26.6			1.416						0.375	1.625		3.00	1.91	3.25								
324T	16	31.8	8	12.5	10.5	1.11	0.66	2.75	16.0	18.1	1.845	0.5	2.5	2.125	5.0	3.91	2	14.8	5.25	5.25				
324TS		30.3			1.591									1.875	3.5	2.03				3.75				
326T		31.8			1.845									0.5	2.125	5.0				3.91	5.25			
326TS		30.3			1.591									1.875	3.5	2.03				3.75				
364T	18	33.2	9	14	11.25	2.95	18.4	19.7	2.021	0.625	2.5	2.375	5.62	4.28	1.875	3.50	2.03	15.6	5.88	5.88				
364TS		31.0			1.591															0.5	1.875	3.50	2.03	3.75
365T		34.2			2.021															0.625	2.375	5.62	4.28	5.88
365TS		32.0			1.591															0.5	1.875	3.50	2.03	3.75
404T	20	37.0	10	16	12.25	1.18	3.15	20.2	21.8	2.45	0.75	2.91	2.875	7.00	5.65	3	18.5	6.62	7.25					
404TS		38.5			1.845					0.5	2.125		4.00	2.78	4.25									
405T		35.5			2.45					0.75	2.875		7.00	5.65	7.25									
405TS		35.5			1.845					0.5	2.125		4.00	2.78	4.25									
444T	22	42.6	11	18	14.5	1.38	0.81	3.35	21.8	24	2.88	0.875	4.25	3.375	8.25	6.91	3	19.5	7.50	8.50				
444TS		39.0			2.021						0.625	2.375		4.50	3.03	4.75								
445T		44.5			2.88						0.875	3.375		8.25	6.91	8.50								
445TS		41.0			2.021						0.625	2.375		4.50	3.03	4.75								
447T		48.3			2.88						0.875	3.375		8.25	6.91	8.50								
447TS		44.5			2.021						0.625	2.375		4.50	3.03	4.75								
449T		53.3			2.88						0.875	3.375		8.25	6.91	8.50								
449TS		49.5			2.021						0.625	2.375		4.50	3.03	4.75								

Notes: Please consult factory for suitability in 300HP and above.

Fig 1

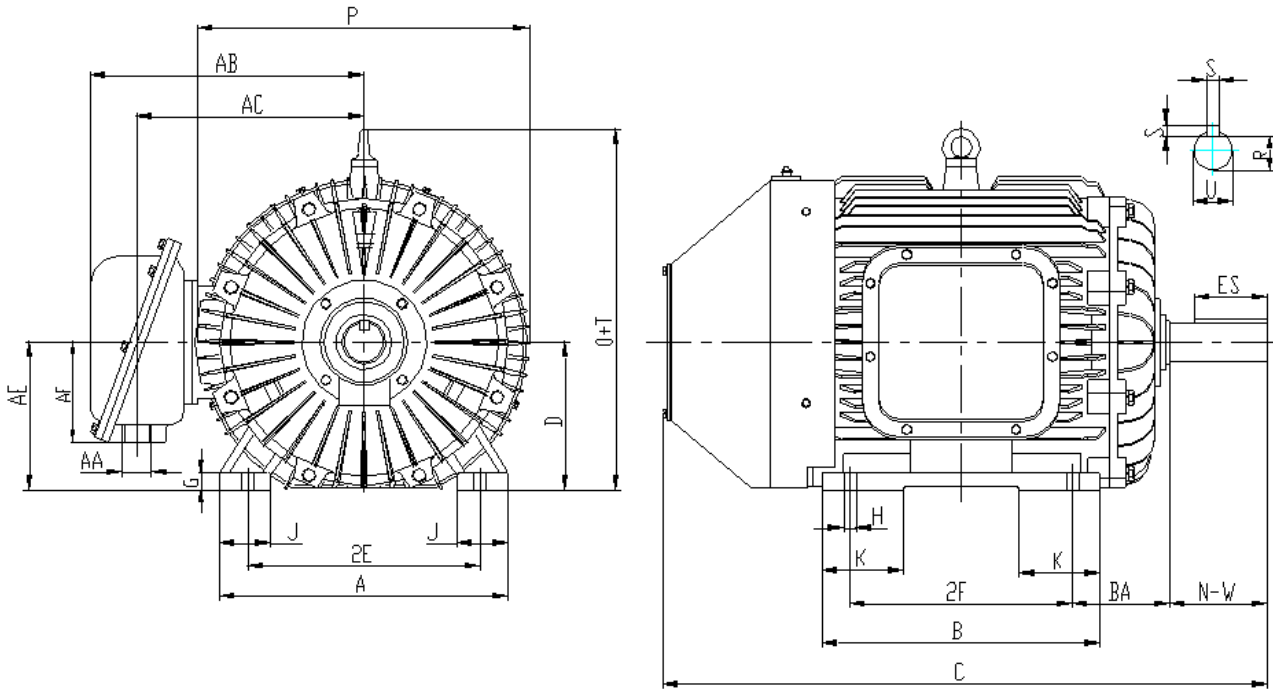


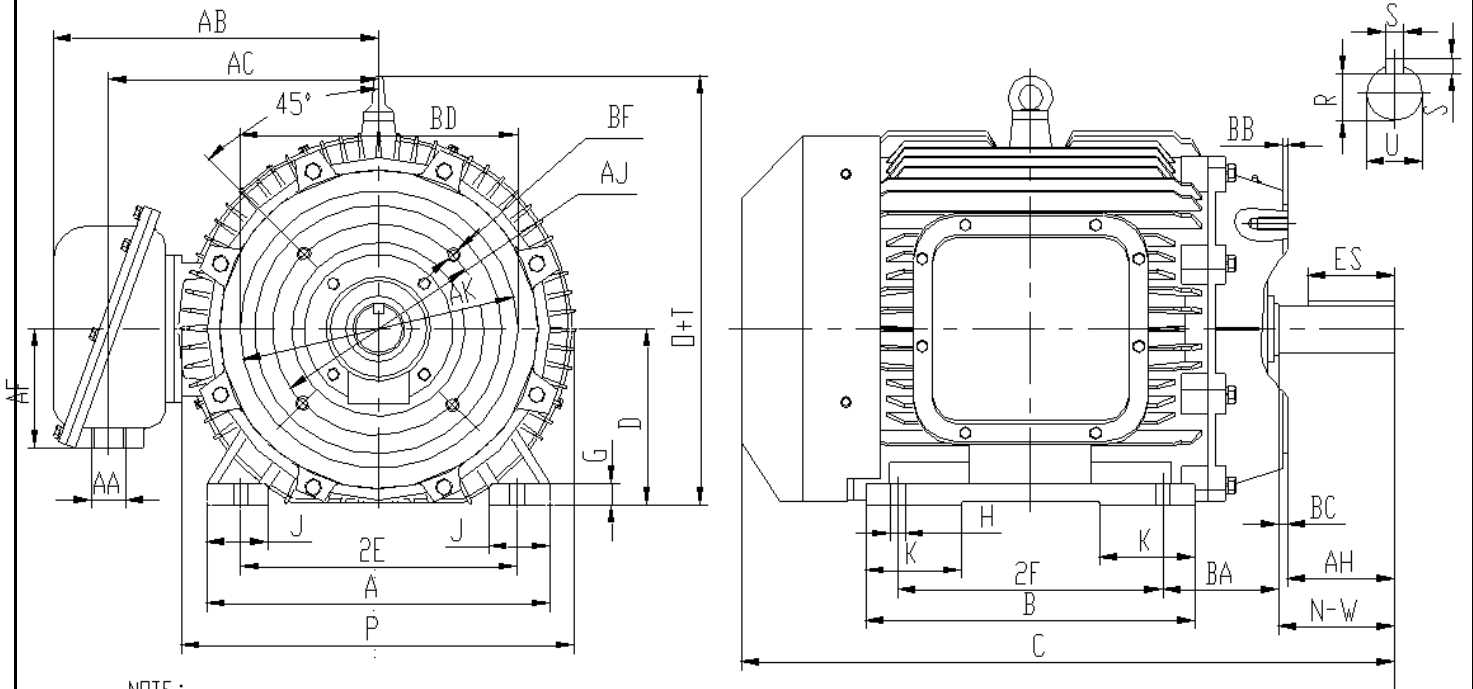


Table 6 Dimensions for C Face-Mounted or Footless Motors (Inch)

Frame Size	AJ	AK	BA*	BB Min	BC	BD Max	BF Hole			U	AH	Keyseat		
							Number	Tap Size	Bolt Penetration Allowance			R	ES Min	S
143TC 145TC	5.88	4.5	2.25*	0.16	+0.12	6.5	4	3/8-16	0.56	0.875	2.12	0.771	1.41	0.188
182TC 184TC	7.25	8.5	2.75*	0.25	+0.12	9	4	1/2-13	0.75	1.125	2.62	0.986	1.78	0.25
213TC 215TC	7.25	8.5	3.5*	0.25	+0.25	9	4	1/2-13	0.75	1.375	3.12	1.201	2.41	0.312
254TC 256TC	7.25	8.5	4.25*	0.25	+0.25	10	4	1/2-13	0.75	1.625	3.75	1.416	2.91	0.375
284TC 286TC	9	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	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	12.5	5.25	0.25	+0.25	14	4	5/8-11	0.94	2.125	5.00	1.845	3.91	0.500
324TSC 326TSC	11	12.5	5.25	0.25	+0.25	14	4	5/8-11	0.94	1.875	3.50	1.591	2.03	0.500
364TC 365TC	11	12.5	5.88	0.25	+0.25	14	8	5/8-11	0.94	2.375	5.62	2.021	4.28	0.625
364TSC 365TSC	11	12.5	5.88	0.25	+0.25	14	8	5/8-11	0.94	1.875	3.50	1.591	2.03	0.500
404TC 405TC	11	12.5	6.62	0.25	+0.25	15.5	8	5/8-11	0.94	2.875	7.00	2.450	5.65	0.750
404TSC 405TSC	11	12.5	6.62	0.25	+0.25	15.5	8	5/8-11	0.94	2.125	4.00	1.845	2.78	0.500
444TC 445TC	14	16	7.5	0.25	+0.25	18	8	5/8-11	0.94	3.375	8.25	2.880	6.91	0.875
444TSC 445TSC	14	16	7.5	0.25	+0.25	18	8	5/8-11	0.94	2.375	4.50	2.021	3.03	0.625
447TC 449TC	14	16	7.5	0.25	+0.25	18	8	5/8-11	0.94	3.375	8.25	2.880	6.91	0.875
447TSC 449TSC	14	16	7.5	0.25	+0.25	18	8	5/8-11	0.94	2.375	4.50	2.021	3.03	0.625

* For frames 143TC-256TC, dimension BA is different from NEMA MG1 4.4.4 in order to make sure it can be switched to each other from TC flange into T flange.

Fig 2



NOTE :
 WHERE 8 HOLES<BF> ARE USED,THE ADDITIONAL
 FOUR HOLES ARE LOCATED ON THE HORIZONTAL AND VERTICAL CENTERLINES