

OXFORD

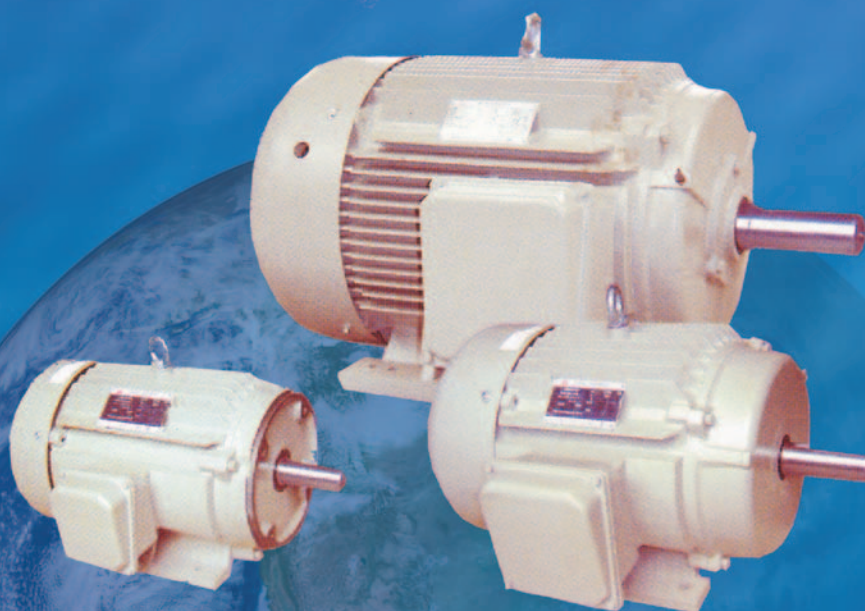


ELECTRIC MOTORS

NEMA SERIES

THREE Phase

Industrial Motors

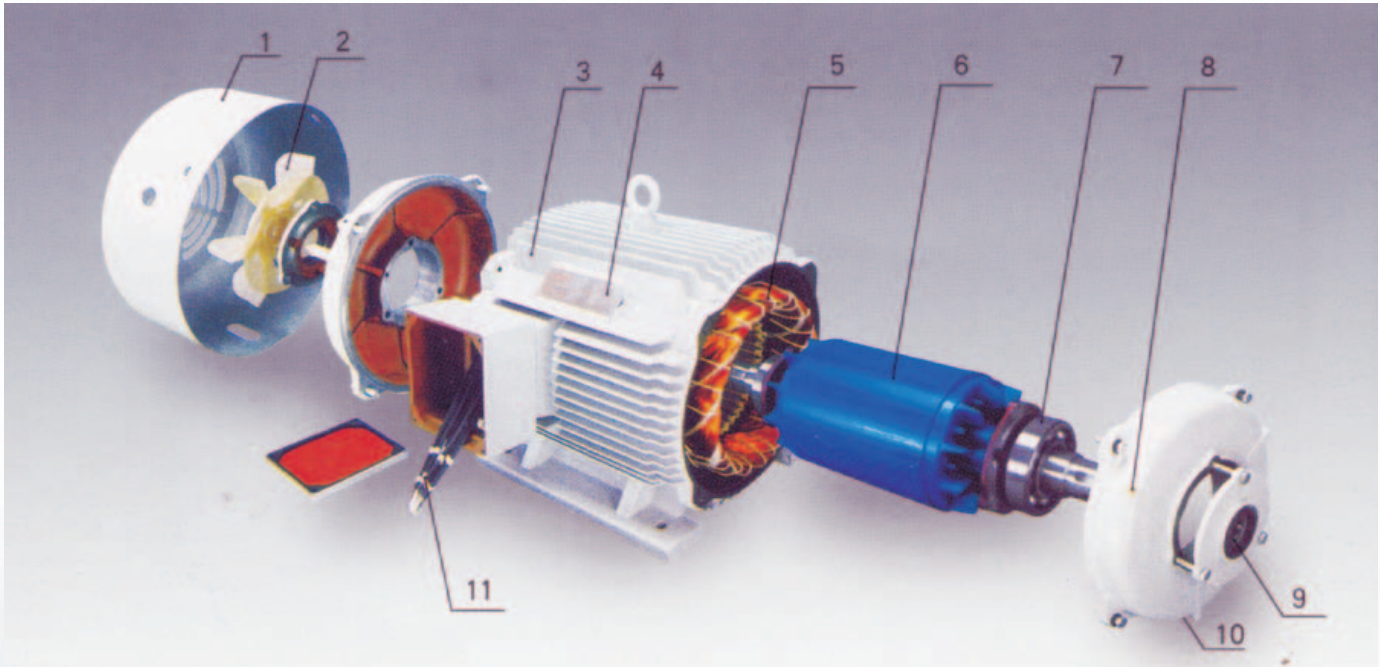


**WORLD CLASS
INDUCTION MOTORS**

ISO 9001 CERTIFIED

**EPACT Rated High Efficiency
Design Motors**

- Cast Iron TEFC Three phase general purpose.
- EPACT compliant
- CSA and ISO 9001 certified.
- Rigid base with F1 and F2 mounting.
- 208-230/460V, 460V, 575V, at 60Hz
- Class F insulation, Class B temperature rise.
- 1.15 Service factor
- C-Face kits available



1. Steel fan cover for optimum strength
2. High strength corona free fan assures low temperature rise and very low noise
3. Heavy-duty cast iron frame, endplates and conduit box. They are solid footed : 145T, 184T, 215T, 256T, 284T, 286T, 324T, 326T, 447T, 449T are double drilled.
4. Alloy aluminium nameplate with standard information on motor efficiency, wiring diagram, bearing sizes etc.
5. More quality copper magnet wire, high grade electromagnetic steel stator, lower resistance and I^2R losses, high efficiency design for 1.15 service factor, Class F insulation.
6. Cast aluminium rotor dynamically balanced, for reduced vibration and noise, The surface is painted with a semigloss polyester finish.
7. Bearings meet all standards. 143T-256T frame motors use double shielded ball bearings while 284T frame and larger motors have greaseable bearings with bearing caps to protect against entry of grease into the motor.
8. Lubrication fittings on each end of motor (284T frame and larger), Lithium base grease is used with range of $-30^{\circ}\text{C} \sim +110^{\circ}\text{C}$ ambient temperature.
9. Neoprene shaft slinger protects bearings by repelling moisture and other contaminants.
10. One-way, corrosion resistant condensate drains to release condensation and moisture from the housing.
11. Oversized cast iron conduit box, double gaskets, box can be rotated in 90° increments. NPT threaded entrance. The highest quality flexible insulation material is used on the leads and they are extra long and permanently marked, 213T-449T frame motors have 12 leads, suitable for wye-delta starting.

Three Phase, 60Hz, 208-230/460V, 460V, 575V, NEMA Design B, High efficiency, Squirrel Cage, TEFC, Class F Insulation, 40°C Ambient, Continuous Duty, 1.15 Service Factor.

HP	Frame	RPM Full Load	Catalog No.	Volt Code*	Torque			Current Amps at 460V		Efficiency %			Power Factor % Full Load	NEMA Code Letter	Approx Net Weight Lbs.
					Full Load Ft-Lb	Locked Rotor %	Break Down %	Full Load	Locked Rotor	100% Load	75% Load	50% Load			
1	143T	3480	PB0012FBA	A,B	1.5	300	350	1.4	13.9	76.5	77.7	69.5	0.88	M	44
	143T	1725	PB0014FBA	A,B	3	300	350	1.6	13.8	82.5	80.3	75.3	0.70	M	46
	145T	1140	PB0016FBA	A,B	4.6	220	270	1.8	11.2	80.5	78.4	72.5	0.65	K	58
1.5	143T	3480	PBY152FBA	A,B	2.3	300	310	2.1	19.5	82.5	80.5	76.9	0.81	M	47
	145T	1725	PBY154FBA	A,B	4.5	280	290	2.2	18.5	84.0	83.1	79.9	0.76	L	56
	182T	1160	PBY156FBA	A,B	6.8	210	280	2.4	16.5	85.5	84.6	78.8	0.68	K	85
2	145T	3480	PB0022FBA	A,B	3	290	330	2.6	22	84.0	82.7	81.7	0.85	K	56
	145T	1725	PB0024FBA	A,B	6.1	290	300	3.1	24.5	84.0	82.9	81.5	0.71	L	57
	184T	1160	PB0026FBA	A,B	9.1	210	270	3.1	22	86.5	85.9	83.9	0.69	K	103
3	182T	3500	PB0032FBA	A,B	4.5	230	300	3.6	31	86.5	86.8	84.9	0.91	K	87
	182T	1740	PB0034FBA	A,B	9.1	240	300	4	31	87.7	88.2	84.3	0.80	K	90
	213T	1170	PB0036FBA	A,B	13.5	230	330	4.6	31	87.5	86.7	84.9	0.69	K	154
5	184T	3500	PB0052FBA	A,B	7.5	235	290	5.8	45	88.3	87.7	87.5	0.90	J	108
	184T	1740	PB0054FBA	A,B	15.1	220	290	6.1	45	88.2	88.6	86.3	0.86	J	110
	215T	1170	PB0056FBA	A,B	22.5	200	280	7.2	45	87.5	86.9	85.6	0.74	J	172
7.5	213T	3500	PBY752FBA	A,B	11.3	190	280	8.8	62	88.5	89.5	88.7	0.90	H	147
	213T	1750	PBY754FBA	A,B	22.5	190	250	10	63	89.5	90.3	89.8	0.78	H	157
	254T	1170	PBY756FBA	A,B	33.7	180	230	10.3	62	89.6	89.7	88.6	0.76	H	230
10	215T	3500	PB0102FBA	A,B	15	190	290	11.5	80	89.5	89.5	86.1	0.90	H	163
	215T	1750	PB0104FBA	A,B	30	180	250	13.1	80	90.0	90.5	88.7	0.79	H	176
	256T	1170	PB0106FBA	A,B	44.9	190	250	13.4	80	89.8	90.0	89.2	0.77	H	268
15	254T	3525	PB0152FBA	A,B	22.4	190	280	17.1	113	90.3	90.5	90.5	0.91	G	253
	254T	1750	PB0154FBA	A,B	45	190	280	17.1	113	91.0	91.1	90.4	0.87	G	252
	284T	1170	PB0156FBA	A,B	67.4	190	270	18.5	113	90.2	90.4	90.3	0.84	G	413
20	256T	3525	PB0202FBA	A,B	29.8	180	280	22.5	144	90.6	90.5	88.6	0.91	G	288
	256T	1750	PB0204FBA	A,B	60	190	250	22.9	138	91.5	92.0	91.6	0.89	F	305
	286T	1170	PB0206FBA	A,B	89.8	180	250	23.8	138	90.8	91.3	91.3	0.86	F	439
25	284TS	3550	PB0252FBA	A,B	37	175	250	27.5	182	91.0	90.2	89.1	0.93	G	424
	284T	1780	PB0254FBA	A,B	73.8	200	260	27.9	182	92.6	93.2	90.5	0.90	G	463
	324T	1180	PB0256FBA	A,B	111.3	185	260	29.8	182	91.9	91.8	91.2	0.85	G	555
30	286TS	3550	PB0302FBA	A,B	44.4	170	280	32.8	215	91.4	90.4	88.2	0.93	G	438
	286T	1780	PB0304FBA	A,B	88.6	190	250	33.5	215	92.4	93.0	91.1	0.91	G	476
	326T	1180	PB0306FBA	A,B	133.6	190	250	33.5	215	91.8	91.5	91.1	0.91	G	590
40	324TS	3550	PB0402FBA	A,B	59.2	170	240	44.1	286	91.7	91.8	87.4	0.92	G	560
	324T	1780	PB0404FBA	A,B	118.1	170	260	45.3	286	93.0	92.8	92.5	0.89	G	570
	364T	1180	PB0406FBA	A,B	178.1	190	250	47.5	286	93.3	93.0	91.2	0.84	G	754
50	326TS	3550	PB0502FBA	A,B	74	180	250	54.5	358	93.3	93.1	89.9	0.92	G	590
	326T	1780	PB0504FBA	A,B	147.6	185	240	56.3	358	93.0	92.8	92.4	0.89	G	620
	365T	1180	PB0506FBA	A,B	222.6	180	230	58	358	93.0	93.1	93.2	0.86	G	809

* Voltage Code : A=208-230/460V, B=575V, C=460V, D=415V

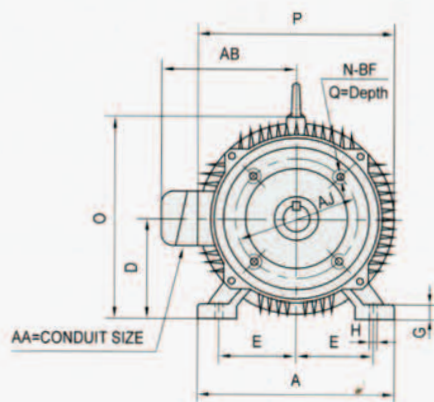
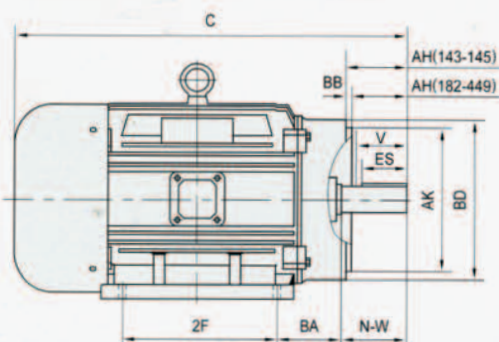
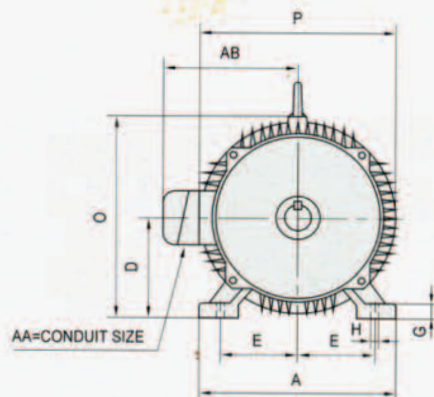
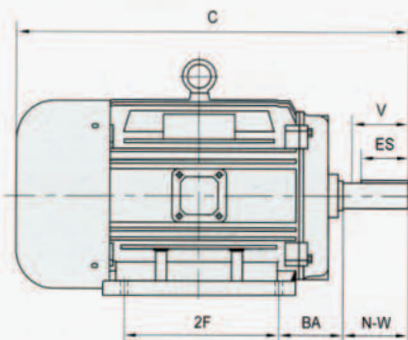
HP	Frame	RPM Full Load	Catalog No.	Volt Code*	Torque			Current Amps at 460V		Efficiency %			Power Factor % Full Load	NEMA Code Letter	Approx Net Weight Lbs.
					Full Load Ft-Lb	Locked Rotor %	Break Down %	Full Load	Locked Rotor	100% Load	75% Load	50% Load			
60	364TS	3550	PB0602FBA	A,B	88.8	175	215	67	430	93.0	93.2	93.2	0.90	G	724
	364T	1780	PB0604FBA	A,B	177.1	180	230	67.8	430	93.8	94.0	91.4	0.88	G	734
	404T	1180	PB0606FBA	A,B	267.2	170	210	68	430	93.6	93.9	93.9	0.88	G	1024
75	365TS	3550	PB0752FBA	A,B	111	170	230	83	536	93.0	93.3	92.5	0.90	G	782
	365T	1780	PB0754FBA	A,B	221.4	185	250	84	536	94.1	94.2	93.8	0.89	G	805
	405T	1180	PB0756FBA	A,B	334	165	230	84	5186	93.6	94.1	94.2	0.89	F	1108
100	405TS	3570	PB1002FBA	A,B	147.2	150	210	110	715	93.6	93.7	90.9	0.90	G	943
	405TS	1780	PB1004FBA	A,B	295.2	160	220	113.4	690	94.6	94.7	93.6	0.87	F	1097
	444T	1180	PB1006FBA	C,B	445.3	160	210	114.9	690	94.2	94.4	94.1	0.86	F	1752
125	444TS	3570	PB1252FBC	C,B	184	140	210	136	865	94.5	94.6	94.5	0.91	F	1493
	444T	1780	PB1254FBC	C,B	369	160	200	140	865	94.5	94.6	94.5	0.91	F	1535
	445T	1180	PB1256FBC	C,B	556.6	155	200	145	865	94.1	94.2	93.7	0.85	F	1897
150	445TS	3570	PB1502FBC	C,B	220.8	140	200	164	1035	94.5	94.6	94.5	0.90	F	1665
	445T	1780	PB1504FBC	C,B	442.8	150	210	166	1035	95.0	95.2	94.8	0.89	F	1745
	447T	1180	PB1506FBC	C,B	667.9	165	200	170	1035	95.0	95.2	95.0	0.86	F	2210
200	447TS	3570	PB2002FBC	C,B	294.4	150	210	217	1395	95.0	95.0	94.7	0.90	F	2185
	447T	1780	PB2004FBC	C,B	590.4	155	220	223	1395	95.0	95.0	94.8	0.88	F	2260
	449T	1180	PB2006FBC	C,B	890.5	150	200	230	1395	95.0	95.3	95.2	0.85	F	3100

* Voltage Code : A=208-230/460V, B=575V, C=460V, D=415V

These motors are general-purpose polyphase squirrel cage induction motors meeting all required NEMA and IEEE standards. In addition to our numerous in-factory sampling motor tests to verify and improve our designs, The Manufacturer have tested motors at the prestigious Hydro-Quebec LTEE independent motor testing laboratory in Canada. All motors from 1 HP to 200 HP currently meet or exceed the minimum efficiency requirements per US Energy Policy Act of 1992,

All OXFORD motors have TEFC enclosures, with Ip54 protection and Class F insulation system, and meet Class B temperature rise at full load.

OXFORD motors have high starting and breakdown torque. We have selected the highest quality bearings and test each bearing prior to installation in our motors. The very low noise and vibration levels make these motors extremely suitable for various operations at high load rates and continuous running up to 40⁰C ambient temperatures



INCHES

NEMA FRAME	A	C	D	E	2F	G	H	AA	O	P	BA (*)	AB	AJ	AK	BB Min	AH	BD Max	N	BF	Q	SHAFT DIMENSION			KEY SEAT		
																					N-W	U	V	R	ES	S
143T	6.9	13.2	3.50	2.75	4.00	0.50	0.34	0.75	7.1	7.1	2.25 (2.75)	6.3	5.875	4.5	0.16	2.13	6.5	4	0.375-16	0.56	2.25	0.875	2.00	0.771	1.41	0.188
145T		14.2			5.00																					
182T	8.9	15.7	4.50	3.75	4.50	0.60	0.41	1.25	9.1	9.1	2.75 (3.50)	7.9	7.250	8.5	0.25	2.63	9.0	4	0.500-13	0.75	2.75	1.125	2.50	0.986	1.78	0.250
184T		16.7			5.50																					
213T	10.4	18.9	5.25	4.25	5.50	0.71	0.41	1.25	10.9	10.8	3.50 (4.25)	8.8	7.250	8.5	0.25	3.13	9.0	4	0.500-13	0.75	3.38	1.375	3.12	1.201	2.41	0.312
215T		20.4			7.00																					
254T	12.1	23.9	6.25	5.00	8.25	0.79	0.53	1.25	13.2	13.2	4.25 (4.75)	10.2	7.250	8.5	0.25	3.75	9.5	4	0.500-13	0.75	4.00	1.625	3.75	1.416	2.91	0.375
256T		25.7			10.00																					
284T	14.0	28.2	7.00	5.50	9.50	0.91	0.53	1.5	14.3	14.1	4.75	11.1	9.00	10.5	0.25	4.37	11.1	4	0.500-13	0.75	4.62	1.875	4.38	1.591	3.28	0.500
286T		28.2			11.00																					
284TS		26.8			9.50											3.00										
286TS		26.8			11.00																					
324T	15.4	30.0	8.00	6.25	10.50	1.05	0.66	2	16.0	15.8	5.25	14.0	11.00	12.5	0.25	5.00	13.1	4	0.625-11	0.94	5.25	2.125	5.00	1.845	3.91	0.500
326T		30.0			12.00																					
324TS		28.5			10.50											3.50										
326TS		28.5			12.00																					
364T	17.1	32.3	9.00	7.00	11.25	1.15	0.66	3	17.8	18.3	5.8	15.1	11.00	12.5	0.25	5.63	13.1	8	0.625-11	0.94	5.88	2.375	5.62	2.021	4.28	0.625
365T		33.6			12.25																					
364TS		30.2			11.25											3.50										
365TS		31.4			12.25																					
404T	19.2	37.2	10.00	8.00	12.25	1.19	0.81	3	19.6	19.9		16.6	11.00	12.5	0.25	7.00	13.2	8	0.625-11	0.94	7.25	2.875	7.00	2.450	5.65	0.750
405T		40.4			13.75											4.00										
405TS		37.5			13.75																					
444T	21.5	46.2	11.00	9.00	14.50	1.38	0.81	3	22.1	22.3		17.7	14.00	16.0	0.25	8.25	17.1	8	0.625-11	0.94	8.50	3.375	8.25	2.880	6.91	0.875
445T		48.6			16.50																					
444TS		42.5			14.50											4.50										
445TS		44.9			16.50																					
447T		52.5			20.00											8.25										
449T	21.5	55.7	11.00	9.00	25.00	1.38	0.81	3	23.3	24.6		19.0	14.00	16.0	0.25	8.25	17.1	8	0.625-11	0.94	8.50	3.375	8.25	2.880	6.91	0.875
447T		48.7			20.00											4.50										

(*) NEMA C face BA dimensions.

NEMA FRAME

THREE

Phase

Industrial Motors

Imported By:

