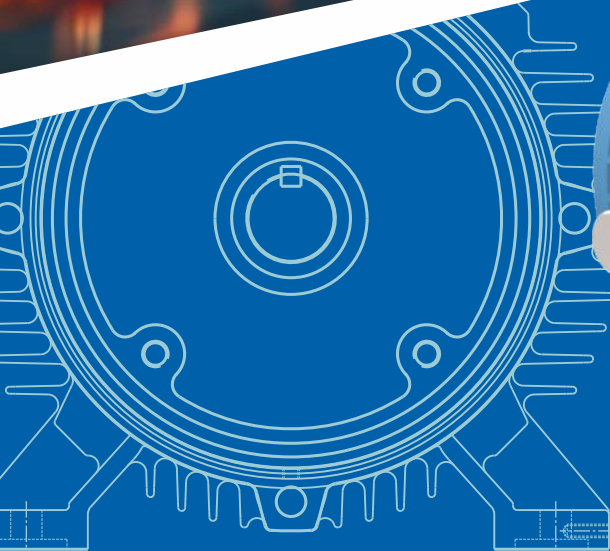


NA-M SERIES



NEMA PREMIUM EFFICIENCY TEFC LOW VOLTAGE ELECTRIC MOTORS



PRODUCT CATALOGUE

www.northam-inc.com

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NEMA PREMIUM EFFICIENCY TEFC LOW VOLTAGE ELECTRIC MOTORS

GENERAL DATA

INDUCTION MOTORS - NEMA TEFC

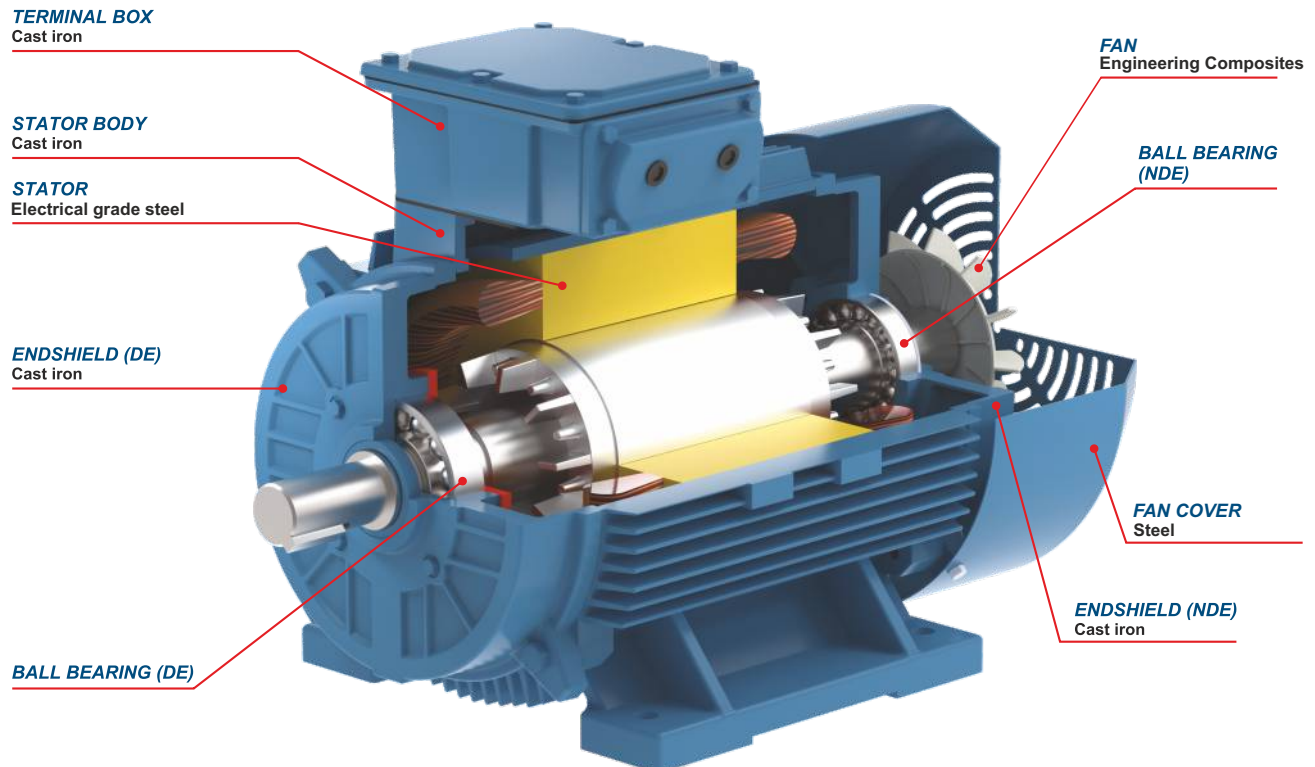
Northam NEMA Premium Efficiency Motors are UL recognised in accordance to UL 1004-1 and CSA C22.2 NO.100, In addition, they feature a Class F Insulation System and 1.15 Service Factor on the entire range of motors.

They are available in T, TS (C & D flanges), JM and JP frame sizes.

STANDARD FEATURES

2 pole, 60Hz, 3500 RPM's	3 to 100 Horsepower	122° F Ambient Temperature
Voltage: 230 / 460	TEFC	Cast Iron Frames
	NEMA Dimensions	Ball Bearings
	NEMA design 'B' ratings	Altitude:3300 ft (1000m)
	Service Factor: 1.15	Carbon Steel Shaft
	Class 'F' insulation for all Frames, Class B rise	UL Recognised (2 Pole only)
	Continuous Duty (S1)	

MATERIAL OF CONSTRUCTION



NEMA PREMIUM EFFICIENCY TEFC LOW VOLTAGE ELECTRIC MOTORS

1/4 HP to 100 HP

MODEL CODE

1 PHASE / 3 PHASE

NA M 010 A 2 R T B L 1

Efficiency class
Code Efficiency
3 IE3 / Premium

Ambient temperature
Code Temperature
M 50°C / 122°F

Mounting arrangement
Code Size
B With base
F Without base

Enclosure
Code Type
T TEFC

Frame size

Code	Size
F	182T
I	184JM
J	184T
K	184TC
L	184TD
M	215JM
N	215T

Code	Size
Y	256T
Z	256TC
A1	256TD
A2	256JM
A3	256JP
A4	284TS
A5	284TSC

Code	Size
O	215TC
P	215TD
T	254T
U	254TC
V	254TD
W	254JM
X	254JP

Code	Size
B3	326JP
B4	365TS
B5	365TSC
B6	365TSD
B7	445TSD
B8	405TS
B9	405TSC

Code	Size
B0	405TSD
C1	445TS
C2	445TSC

Pole

Code	Pole
2	2

Power supply

Code	Power supply
E	60 Hz, 3 Phase, 230V / 460V

Motor HP

Code	HP
030	3 HP
050	5 HP
075	7 1/2 HP

Code	HP
100	10 HP
150	15 HP
200	20 HP

Code	HP
250	25 HP
300	30 HP
400	40 HP

Code	HP
500	50 HP
600	60 HP
750	75 HP

Motor type

Code	Type
M	NEMA Standard

Series name

Code	Series
NA	Motors - UL

NEMA PREMIUM EFFICIENCY TEFC LOW VOLTAGE ELECTRIC MOTORS

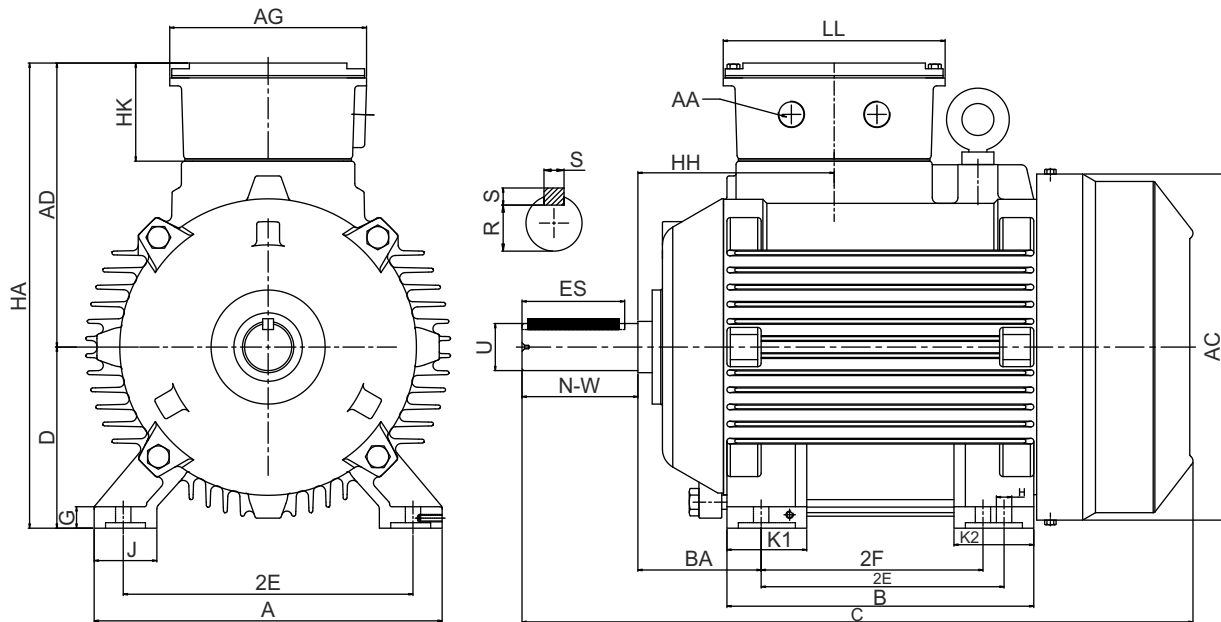
GENERAL DATA

NEMA, TEFC 60 HZ FOOT MOUNT - THREE PHASE MOTORS

Output [HP]	Hz	Volts	Frame Size	FL Amps	Service factor	Pole	RPM	INS class	Rated Ambient °F	Weight lbs
3	60	230	182T	7.4	1.15	2	3450	F	122	94
		460		3.7			3450			
5	60	230	184T	12.6	1.15	2	3450	F	122	100
		460		6.3			3450			
7.5	60	230	184T	17.8	1.15	2	3450	F	122	112
		460		8.9			3450			
10	60	230	215T	24.4	1.15	2	3500	F	122	163
		460		12.2			3500			
15	60	230	254T	34	1.15	2	3545	F	122	231
		460		17			3545			
20	60	230	254T	46	1.15	2	3545	F	122	243
		460		23			3545			
25	60	230	256T	58	1.15	2	3550	F	122	265
		460		29			3550			
30	60	230	284TS	66	1.15	2	3550	F	122	397
		460		33			3550			
40	60	230	326TS	90	1.15	2	3560	F	122	540
		460		45			3560			
50	60	230	326TS	112	1.15	2	3565	F	122	584
		460		56			3565			
60	60	230	365TS	134	1.15	2	3555	F	122	827
		460		67			3555			
75	60	230	405TS	170	1.15	2	3565	F	122	849
		460		85			3565			
100	60	230	445TS	224	1.15	2	3575	F	122	1411
		460		112			3575			

DIMENSIONS

T & TS Flange



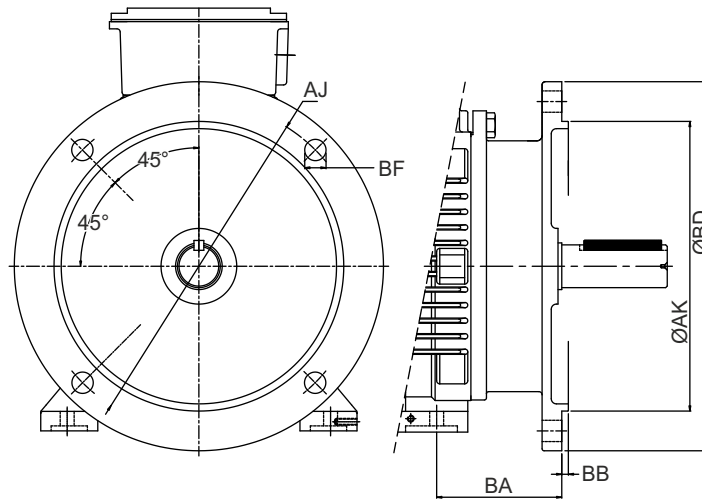
Frame	2E	2F	H	BA	A	B	C	D	G	J	K1	K2	AC
184T	7.5	5.50	0.41	2.75	9.02	7.09	16.02	4.50	0.68	1.65	2.05	2.05	8.60
215T	8.5	7.00	0.41	3.50	10.04	8.66	19.80	5.25	0.76	2.56	2.17	3.54	10.33
254T	10.0	8.25	0.53	4.25	12.01	10.59	23.15	6.25	0.74	2.17	2.76	2.76	11.95
256T	10.0	8.25/10.0	0.53	4.25	12.01	12.20	24.72	6.25	0.74	2.17	3.58	3.86	11.95
284TS	11.0	9.50	0.53	4.75	13.46	11.18	27.24	7.00	0.82	2.60	3.15	3.15	13.66
326TS	12.5	12.00	0.66	5.25	15.75	14.17	31.18	8.00	1.31	3.39	3.94	3.94	15.24
365TS	14.0	12.25	0.66	5.88	17.72	15.55	32.96	9.00	1.40	3.35	4.33	4.33	16.39
405TS	16.0	12.25/13.75	0.81	6.62	18.90	16.30	33.37	10.00	1.10	3.55	3.58	4.65	19.08
445TS	18.0	14.5/16.5	0.81	7.50	21.26	19.29	39.61	11.00	1.63	3.94	4.33	6.46	21.34

Frame	KEYWAY			SHAFT EXTENSION		TERMINAL BOX							BEARING	
	S	R	ES	N-W	U	AD	HA	HH	HK	LL	AG	AA	DE	NDE
184T	0.25	0.98	2.50	2.75	1.12	6.59	11.09	3.94	2.24	3.98	3.98	NPT 3/4"	6206ZZ	6206ZZ
215T	0.31	1.20	3.12	3.38	1.37	7.56	12.81	4.80	2.32	5.16	5.35	NPT 3/4"	6208ZZ	6208ZZ
254T	0.38	1.42	3.15	4.00	1.63	9.80	16.06	6.77	3.31	7.66	6.79	NPT 1-1/2"	6309ZZ	6209ZZ
256T	0.38	1.42	3.15	4.00	1.63	9.80	16.06	6.77	3.31	7.66	6.79	NPT 1-1/2"	6309ZZ	6209ZZ
284TS	0.38	1.42	2.36	3.25	1.63	11.65	18.65	6.69	4.29	7.68	10.43	NPT 1-1/2"	6310ZZ	6210ZZ
326TS	0.50	1.59	2.36	3.75	1.88	12.09	20.09	7.02	4.29	7.68	10.43	NPT 2"	6312ZZ	6212ZZ
365TS	0.50	1.59	2.36	3.75	1.88	14.54	23.54	7.28	5.83	9.84	9.76	NPT 3"	6313ZZ	6313ZZ
405TS	0.50	1.85	3.15	4.25	2.13	15.04	25.04	8.43	5.87	9.96	9.96	NPT 3"	6315ZZ	6215ZZ
445TS	0.63	2.02	3.15	4.75	2.38	17.54	28.54	8.75	5.83	9.84	9.76	NPT 3"	6317	6316

Note : All Dimensions are in Inches

DIMENSIONS

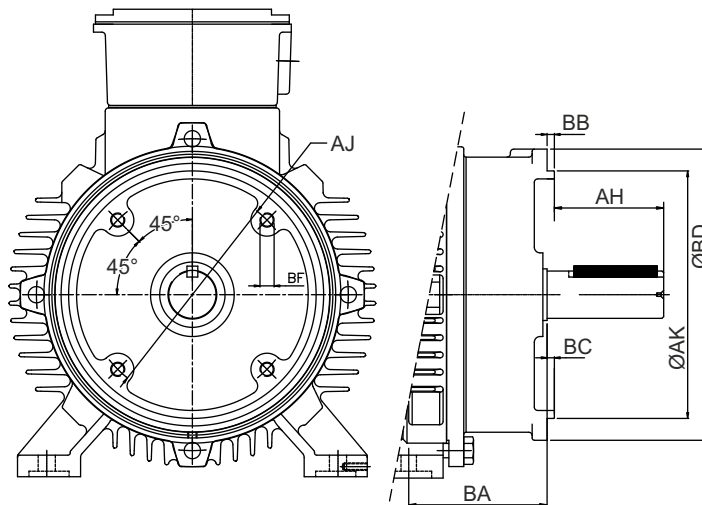
D Flange



Frame	BA	BB	AK	BD	AJ	BF	
						Size	Quantity
184TD	3.50	0.25	9.00	10.98	10.00	0.53	4
215TD	4.25						
254TD	4.75		11.0	14.02	12.5	0.81	
256TD							
284TSD			14.0	18.0	16.0		
326TSD	5.25					8	
365TSD	5.88		18.0	22.0	20.0		
405TSD	6.62						
445TSD	7.50						

Note : All Dimensions are in Inches

C Flange

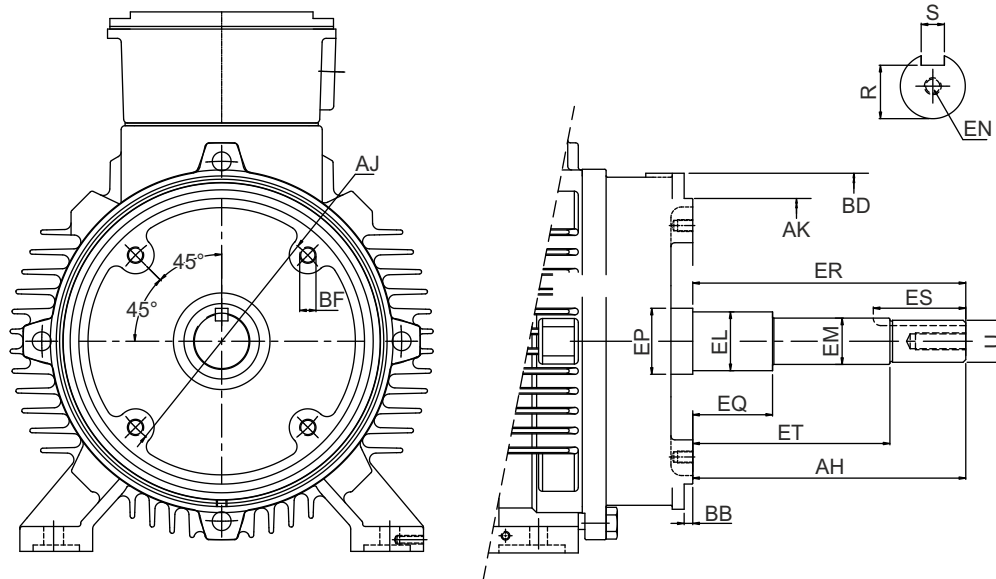


Frame	BA	BB	BC	AK	BD	AH	AJ	BF		
								Size	Quantity	
184TC	3.50	0.25	0.12	8.5	9.02	2.6	7.3	UNC 1/2"-13	4	
215TC	4.25		0.25			0.25				3.1
254TC	4.75									3.8
256TC				10.5	11.3		3.0			9.0
284TSC	5.25		12.5	14.0	3.5	11.0	UNC 5/8"-11	8		
326TSC	5.88								15.5	4.0
365TSC	6.62		16.0	18.0	4.5	14.0				
405TSC	7.50									
445TSC										

Note : All Dimensions are in Inches

DIMENSIONS

JP & JM



JM Flange

Frame	U	AH	AJ	AK	BB	BD	BF		EL	EM	EN	EP	EQ	ET	ER	Key Seat		
							Quantity	Size								R	ES	S
184JM	0.87	4.28	5.87	4.50	0.16	6.61	4	UNC 3/8"-16	1.25	1.00	UNC 3/8"-16	1.3	0.64	2.89	4.25	0.77	1.65	0.19
215JM			7.25	8.50		9.02		UNC 1/2"-13				1.8						
254JM/256JM	1.25	5.28	11.0	12.5	0.31	10.0		UNC 5/8"-11	1.75	1.38	UNC 1/2"-13	2.1	0.6	3.02	5.25	1.11	2.53	0.25
284JM						14.0												
326JM																		

Note : All Dimensions are in Inches

JP Flange

Frame	U	AH	AJ	AK	BB	BD	BF		EL	EM	EN	EP	EQ	ET	ER	Key Seat		
							Quantity	Size								R	ES	S
184JM	0.87	4.28	5.87	4.50	0.16	6.61	4	UNC 3/8"-16	1.25	1.00	UNC 3/8"-16	1.3	1.58	5.95	7.3	0.77	1.65	0.19
215JM			7.25	8.50		9.02		UNC 1/2"-13				1.8						
254JM/256JM	1.25	5.28	11.0	12.5	0.31	10.0		UNC 5/8"-11	1.75	1.38	UNC 1/2"-13	2.1	2.39	5.89	8.12	1.11	2.53	0.25
284JM						14.0												
326JM																		

Note : All Dimensions are in Inches