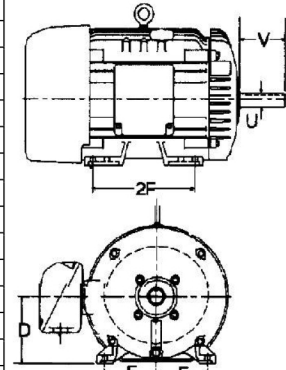


Standard NEMA Frames vs. Horsepower

HP	900 RPM			1200 RPM			1800 RPM			3600 RPM		
	T-Frames 1964-Present	U-Frame 1952-Present	Original NEMA	T-Frames 1964-Present	U-Frame 1952-Present	Original NEMA	T-Frames 1964-Present	U-Frame 1952-Present	Original NEMA	T-Frames 1964-Present	U-Frame 1952-Present	Original NEMA
1	182T	213	225	145T	184	204	143T	182	203	-	-	-
1.5	184T	213	254	182T	184	224	145T	184	204	143T	182	203
2	213T	215	254	184T	213	225	145T	184	224	145T	184	204
3	215T	254U	284	213T	215	254	182T	213	225	145T/182T	184	224
5	254T	256U	324	215T	254U	284	184T	215	254	182T/184T	213	225
7.5	256T	284U	326	254T	256U	324	213T	254U	284	184T/213T	215	254
10	284T	286U	364	256T	284U	326	215T	256U	324	213T/215T	254U	284
15	286T	326U	365	284T	324U	364	254T	284U	326	215T/254T	256U	324
20	324T	364U	404	286T	326U	365	256T	286U	364	254T/256T	284U/286U	326
25	326T	265U	405	324T	364U	404	284T	324U	364/365	256T/284TS	286U/324U	364S/365S
30	364T	404U	444	324T	365U	405	286T	326U	365/404	284TS/286TS	324S/326S	364S/404S
40	365T	405U	445	364T	404U	444	324T	364U	404/405	286TS/324TS	326S/364US	365S/404S
50	404T	444U	504	365T	405U	445	326T	365US	405S/444	324TS/326TS	364US	404S/444S
60	405T	445U	505	404T	444U	504	364T	404US/405US	444S/445S	326TS/364TS	365US/405US	405S/445S
75	444T	-	-	405T	445U	505	365TS	405US/444US	445S/504S	364TS/365TS	404US/444US	444S/504S
100	445T	-	-	444T	-	-	404TS/405TS	444US/445US	504S/505S	365TS/405TS	405US/445US	445S/505S
125	-	-	-	445T	-	-	405TS/444TS	445US	505S	404TS/444TS	444US	504S
150	-	-	-	-	-	-	444TS/445TS	-	-	405TS/445TS	445US	505S
200	-	-	-	-	-	-	445TS	-	-	444TS	-	-
250	-	-	-	-	-	-	-	-	-	445TS	-	-

Pre-NEMA Motor Dimension Chart

FRAME	U	V	D	2F	E	FRAME	U	V	D	2F	E
203	3/4	2	5	5-1/2	4	404	2-1/8	6-1/8	10	12-1/4	8
204	3/4	2	5	6-1/2	4	404S	1-7/8	3-1/2	10	12-1/4	8
224	1	2-3/4	5-1/2	6-3/4	4-1/2	405	2-1/8	6-1/8	10	13-3/4	8
225	1	2-3/4	5-1/2	7-1/2	4-1/2	405S	1-7/8	3-1/2	10	13-3/4	8
254	1-1/8	3-1/8	6-1/4	8-1/14	5	444	2-3/8	6-7/8	11	14-1/2	9
284	1-1/4	3-3/4	7	9-1/2	5-1/2	444S	2-1/8	4	11	14-1/2	9
324	1-5/8	4-5/8	8	10-1/2	6-1/4	445	2-3/8	6-7/8	11	16-1/2	9
324S	1-5/8	3	8	10-1/2	6-1/4	445S	2-1/8	4	11	16-1/2	9
326	1-5/8	4-5/8	8	12	6-1/4	504	2-5/8	7-5/8	12-1/2	16	8
326S	1-5/8	3	8	12	6-1/4	504S	2-1/8	4	12-1/2	16	8
364	1-7/8	5-3/8	9	11-1/4	7	505	2-7/8	8-3/8	12-1/2	18	9
364S	1-7/8	3-1/2	9	11-1/4	7	505S	2-1/8	4	12-1/2	18	9
365	1-7/8	5-3/8	9	12-1/4	7	584	2-7/8	11-5/8	14-1/2	18	9
365S	1-5/8	3-1/2	9	12-1/4	7	584S	2-3/8	4-3/4	14-1/2	18	9



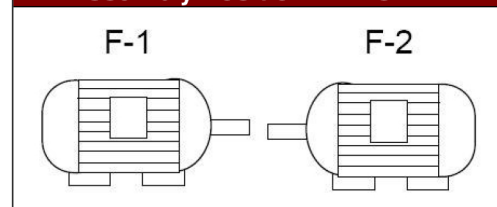
Frame Size Information

Suffix letters after the NEMA frame size indicates that the frame differs in some way from the standard frame. Below is a list of suffixes that may be found after the frame size:

- A DC Motor or Generator
- C "C" flange mounting on drive end **
- D "D" flange mounting on drive end **
- E Shaft dimensions for elevator motors in frames larger than the 326U frame
- H Frame with an "F" dimension larger than a frame without (small framed motors)
- J Jet pump motors
- JM "C"-face mounted close coupling pump with mechanical seal
- JP "C"-face mounted close coupling pump – packaged pump
- K Sump pump motor
- LP & LPH "P" flange mounting vertical solid shaft pump
- P & PH "P" flange mounting vertical hollow shaft pump
- S Standard short shaft
- T Included as part of a frame number-standard dimension
- U Included as part of a frame number-standard dimension
- V Vertical mounting
- Y Special mounting dimensions – manufactured specified
- Z Special shaft dimensions – manufactured specified

** If the face mounting is on the end opposite the drive, the suffix will be as follows: "FC" or "FD"

Assembly Position F-1 vs. F-2



C Flange Addition Dimensions

NEMA C-Face	BA Dimensions
143-5TC	2-3/4
182-4TC	3-1/2
213-5TC	4-1/4
254-6TC	4-3/4

Note: These charts are provided for reference use only. ESR Motor Systems is not responsible for any printing errors.

5000 FRAME	D	E	2F	H	O	P	U	V	AA	AB	BA
5007S	12-1/2	10	22	15/16	26-27/32	30	2-1/2	6-1/2	4-NPT	26-7/8	8-1/2
5007L	12-1/2	10	22	15/16	26-27/32	30	3-7/8	11-1/8	4-NPT	26-7/8	8-1/2
5009S	12-1/2	10	28	15/16	26-27/32	30	2-1/2	6-1/2	4-NPT	26-7/8	8-1/2
5009L	12-1/2	10	28	15/16	26-27/32	30	3-7/8	11-1/8	4-NPT	26-7/8	8-1/2
5011S	12-1/2	10	36	15/16	26-27/32	30	2-1/2	6-1/2	4-NPT	26-7/8	8-1/2
5011L	12-1/2	10	36	15/16	26-27/32	30	3-7/8	11-1/8	4-NPT	26-7/8	8-1/2