

60HZ TECHNICAL DATA SHEET

CATALOG No: **BC2N7.5-4C**

ISSUED: 28-Apr-22

GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
7.5	5.50	2	3600	213TC	230/460 V	60	3	IP55

Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
TEFC	F	1.25	Continuous	A	-15 to 40 C*	<3300 ft

TYPICAL PERFORMANCE

Efficiency (%)			Power Factor (%)		
Full Load	3/4 Load	1/2 Load	Full Load	3/4 Load	1/2 Load
89.5	89.8	89.7	0.92	0.89	0.82

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		460 V	460 V	
330	480	8.40	81.00	3520

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
K	62082Z	63052Z	40 x 52 x 7	25 x 37 x 7	60

*Weights shown are estimated and based on standard foot mounted motor designs

VFD DUTY INFORMATION

	Variable Torque	Constant Torque	Rating
-	3 - 60 Hz	4 - 60 Hz	CSA Approved Class I; Div 2; Groups A, B, C, & D, T3
-	-	-	

Click Link Below For Drawing

<http://brookcrompton.com/Drawings/W-NEMA/NEMA%20Cast%20Iron%20B34/WP-DF213.5TC.pdf>

Click Link Below For Connection Diagram

<http://www.brookcrompton.com/Connections/Connection%20Diagram%209%20Lead%20X4%20NEMA.pdf>

Notes:

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GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
7.5	5.50	2	3000	213TC	400 V	50	3	IP55

Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
TEFC	F	1.00	S1	A	-15 to 40 C°	<3300 ft

TYPICAL PERFORMANCE

Efficiency (%)			Power Factor (%)		
Full Load	3/4 Load	1/2 Load	Full Load	3/4 Load	1/2 Load
88.5	89.5	89.5	0.90	0.89	0.85

LRT %	BDT %	Full Load Amps		Locked Rotor Amps		Full Load RPM
		400 V		400 V		
330	480	9.66		93.15		2870

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
K	62082Z	63052Z	40 x 52 x 7	25 x 37 x 7	60

*Weights shown are estimated and based on standard foot mounted motor designs

VFD DUTY INFORMATION

	Variable Torque	Constant Torque	Rating
-	3 - 60 Hz	4 - 60 Hz	CSA Approved Class I; Div 2; Groups A, B, C, & D, T3
-	-	-	

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<http://brookcromptonna.com/Drawings/W-NEMA/NEMA%20Cast%20Iron%20B34/WP-DF213.5TC.pdf>

Click Link Below For Connection Diagram

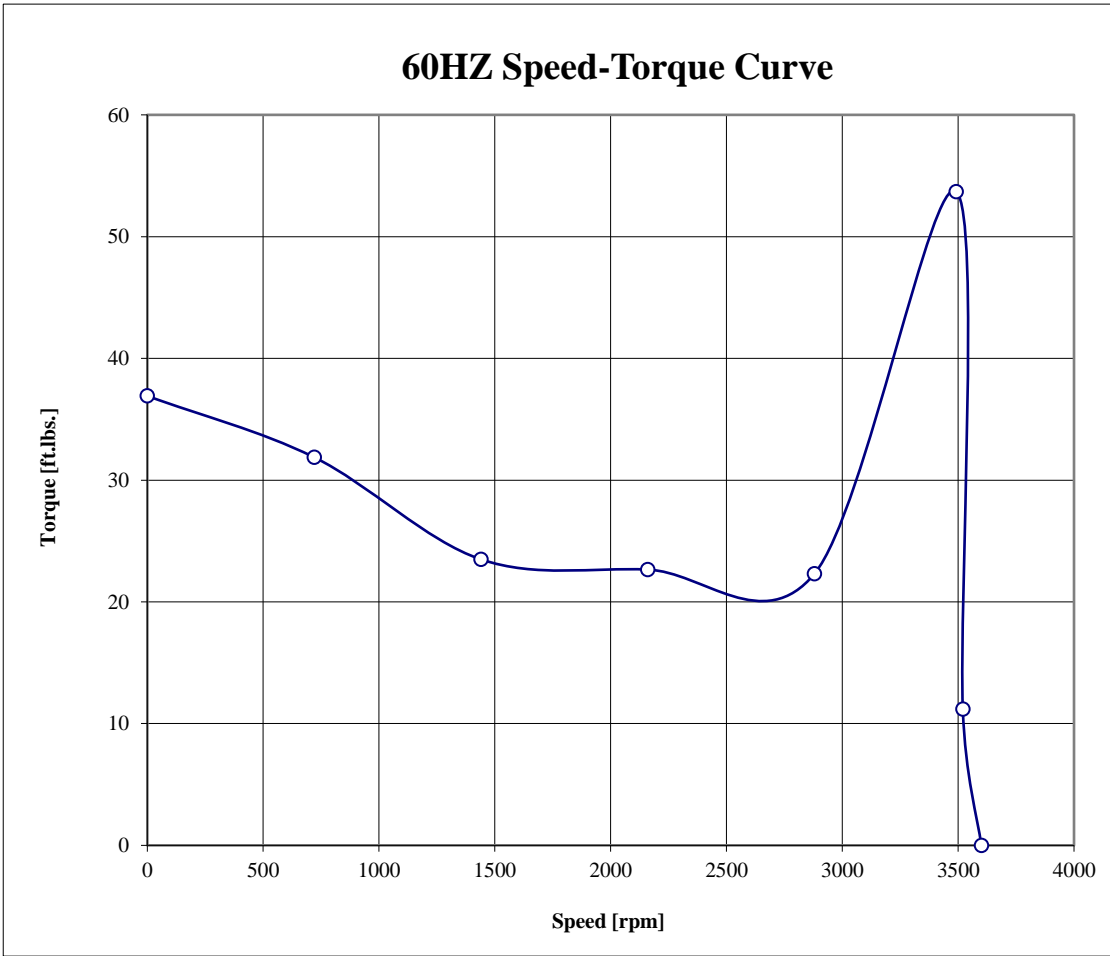
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%209%20Lead%202X4%20NEMA.pdf>

Notes:

Motor: BC2N7.5-4C

	Frame:	213TC	7.5 HP	460 V	
	Pole no.:	2	11.2 ft.lbs.	60 Hz	3520 rpm

Speed	0	720	1440	2160	2880	3492	3520	3600
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.978	1
Mot. torque ratios	3.3	2.8	2.1	2.0	2.0	4.8	1	0
Motor torque / ft.lbs.	37	32	23	23	22	54	11	0

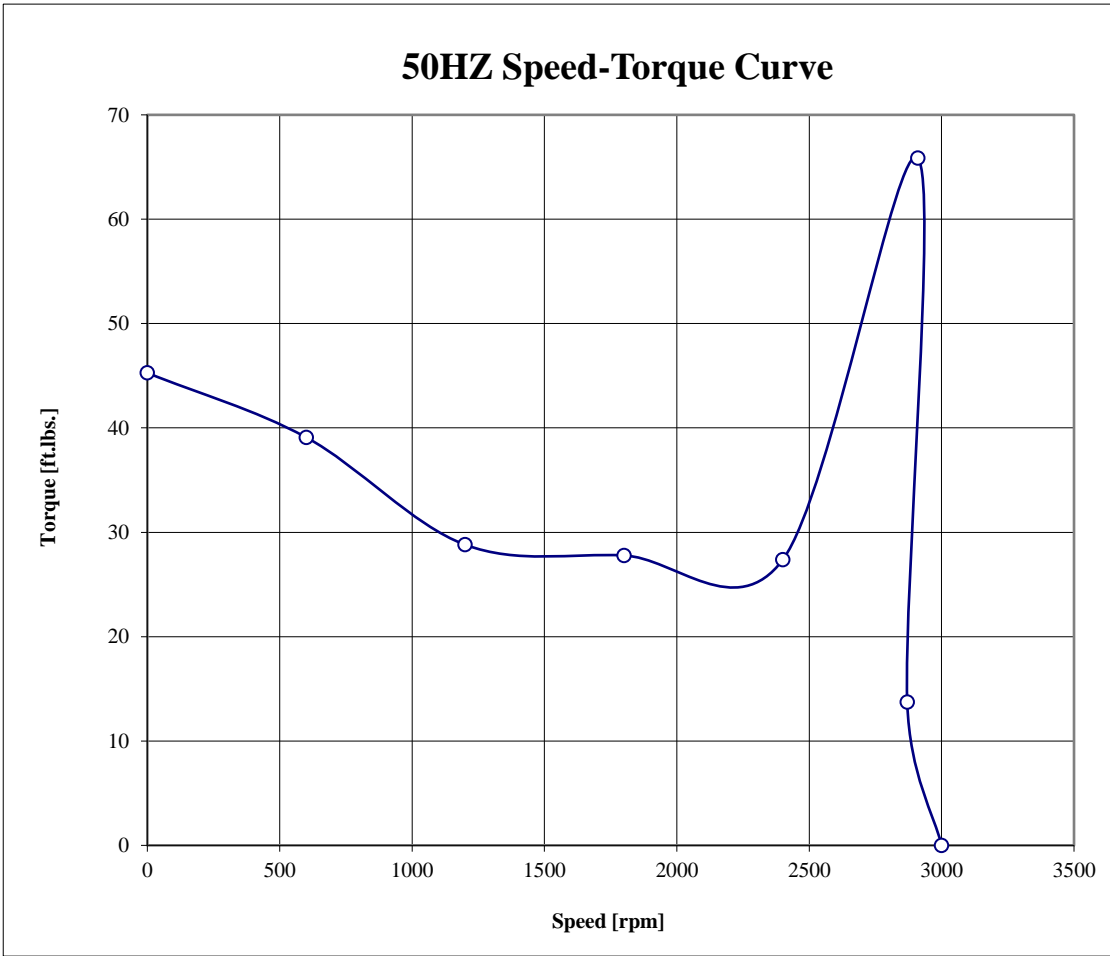


*Curve base on calculated values

Motor: BC2N7.5-4C

	Frame:	213TC	7.5 HP	400 V	
	Pole no.:	2	13.7 ft.lbs.	50 Hz	2870 rpm

Speed	0	600	1200	1800	2400	2910	2870	3000
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.957	1
Mot. torque ratios	3.3	2.8	2.1	2.0	2.0	4.8	1	0
Motor torque / ft.lbs.	45	39	29	28	27	66	14	0



*Curve base on calculated values