

CATALOG No: **BC4N7.5-4D**

ISSUED: 28-Apr-22

GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
7.5	5.50	4	1800	213TD	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
91.7	91.7	90.0	0.77	0.70	0.59

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		460 V	460 V	
380	290	9.80	82.00	1760

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	58

*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%20B35/WP-DF213.5TD.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	4	1500	213TD	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
87.5	89.0	90.0	0.86	0.83	0.75

LRT %	BDT %	Full Load Amps		Locked Rotor Amps		Full Load RPM
		400 V		400 V		
380	290	11.27		94.30		1430

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	58

*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%20B35/WP-DF213.5TD.pdf>

Click Link Below For Connection Diagram

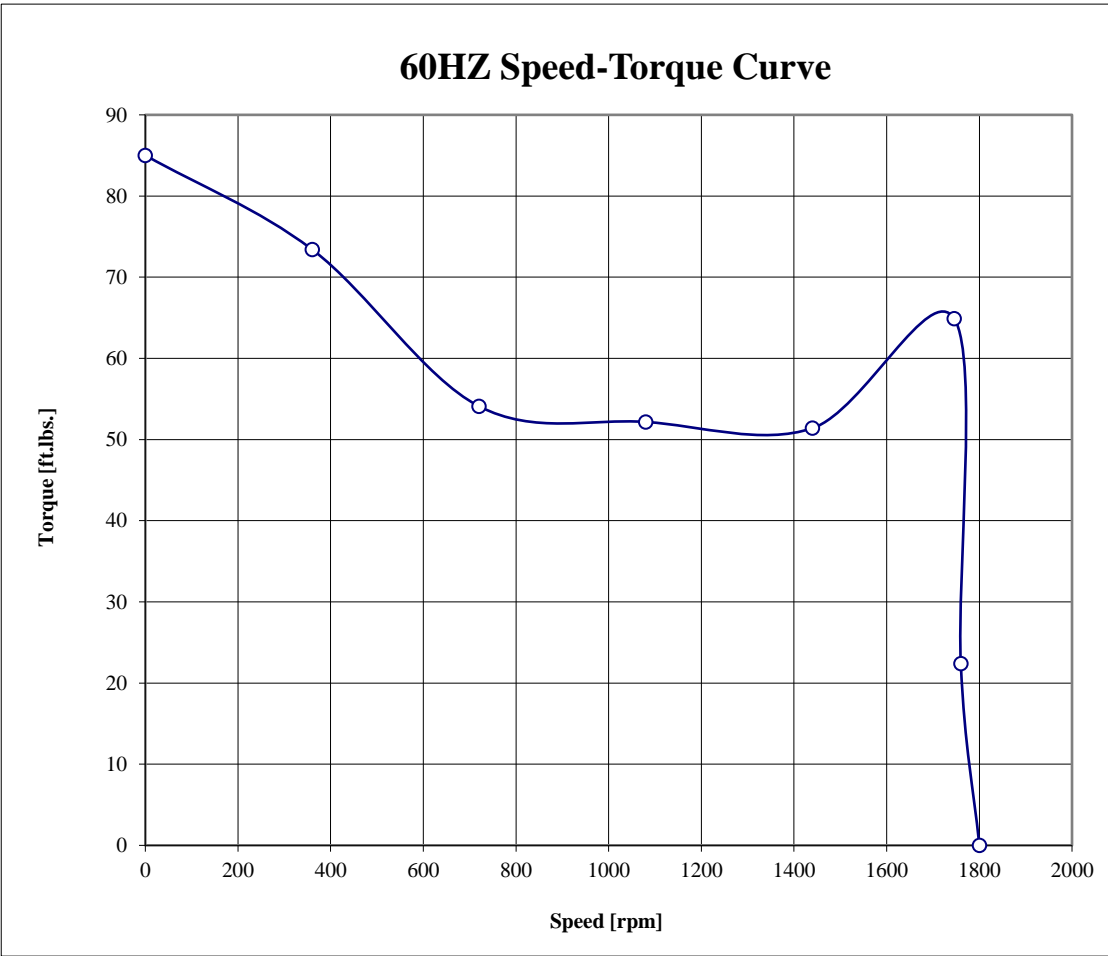
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%209%20Lead%202X4%20NEMA.pdf>

Notes:

Motor: BC4N7.5-4D

	Frame:	213TD	7.5 HP	460 V	
	Pole no.:	4	22.4 ft.lbs.	60 Hz	1760 rpm

Speed	0	360	720	1080	1440	1746	1760	1800
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.978	1
Mot. torque ratios	3.8	3.3	2.4	2.3	2.3	2.9	1	0
Motor torque / ft.lbs.	85	73	54	52	51	65	22	0

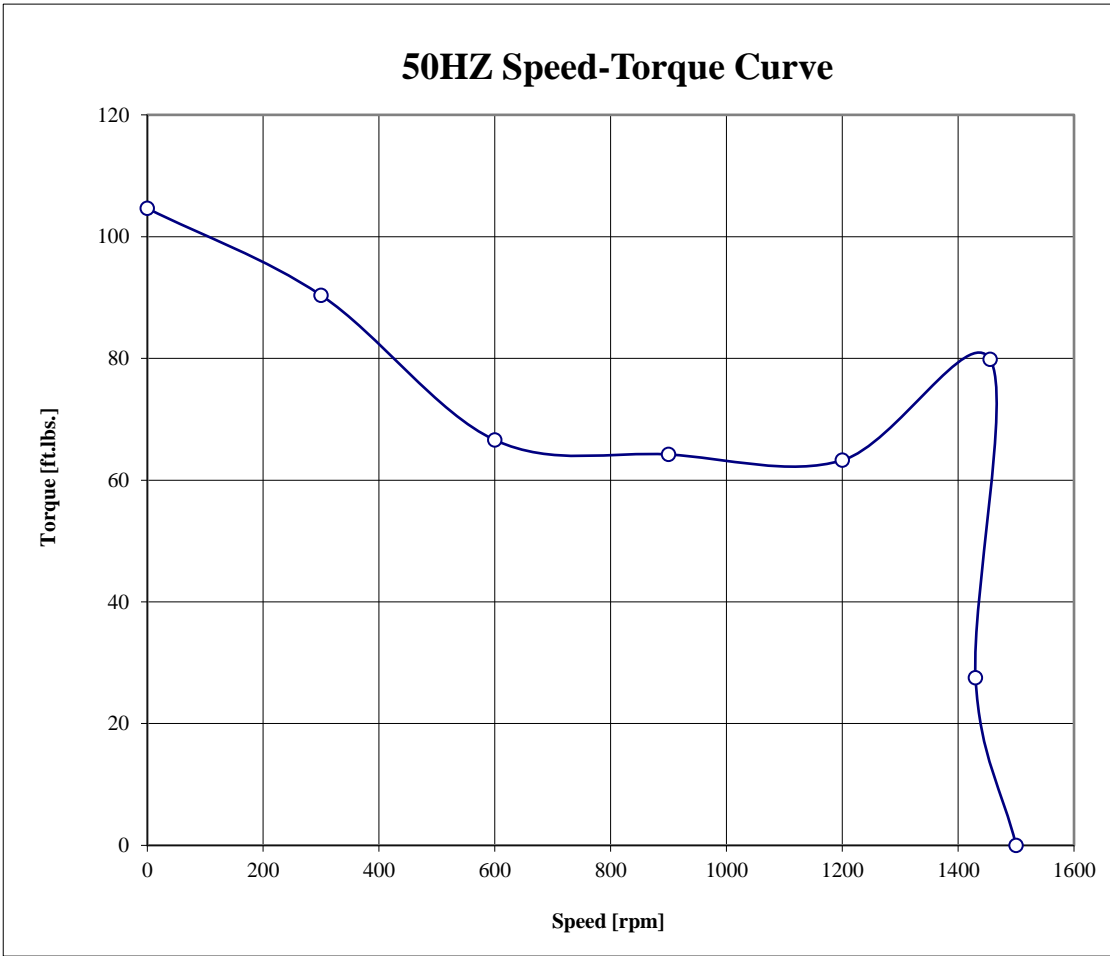


*Curve base on calculated values

Motor: BC4N7.5-4D

	Frame:	213TD	7.5 HP	400 V	
	Pole no.:	4	27.5 ft.lbs.	50 Hz	1430 rpm

Speed	0	300	600	900	1200	1455	1430	1500
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.953	1
Mot. torque ratios	3.8	3.3	2.4	2.3	2.3	2.9	1	0
Motor torque / ft.lbs.	105	90	67	64	63	80	28	0



*Curve base on calculated values