

CATALOG No: **BC2N7.5-5D**

ISSUED: 28-Apr-22

**GENERAL INFORMATION**

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
7.5	5.50	2	3600	213TD	575 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
		575 V	575 V	
330	480	6.70	64.80	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%20B35/WP-DF213.5TD.pdf>

**Click Link Below For Connection Diagram**

<http://www.brookcrompton.com/Connections/Connection%20Diagram%203%20Lead%20575%20NEMA.pdf>

Notes:

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7.5	5.50	2	-	213TD	-	50	3	IP55

Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
TEFC	F	-	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
		-	-	
330	480	-	-	-

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

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-	-	-	

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<http://brookcromptonna.com/Drawings/W-NEMA/NEMA%20Cast%20Iron%20B35/WP-DF213.5TD.pdf>

**Click Link Below For Connection Diagram**

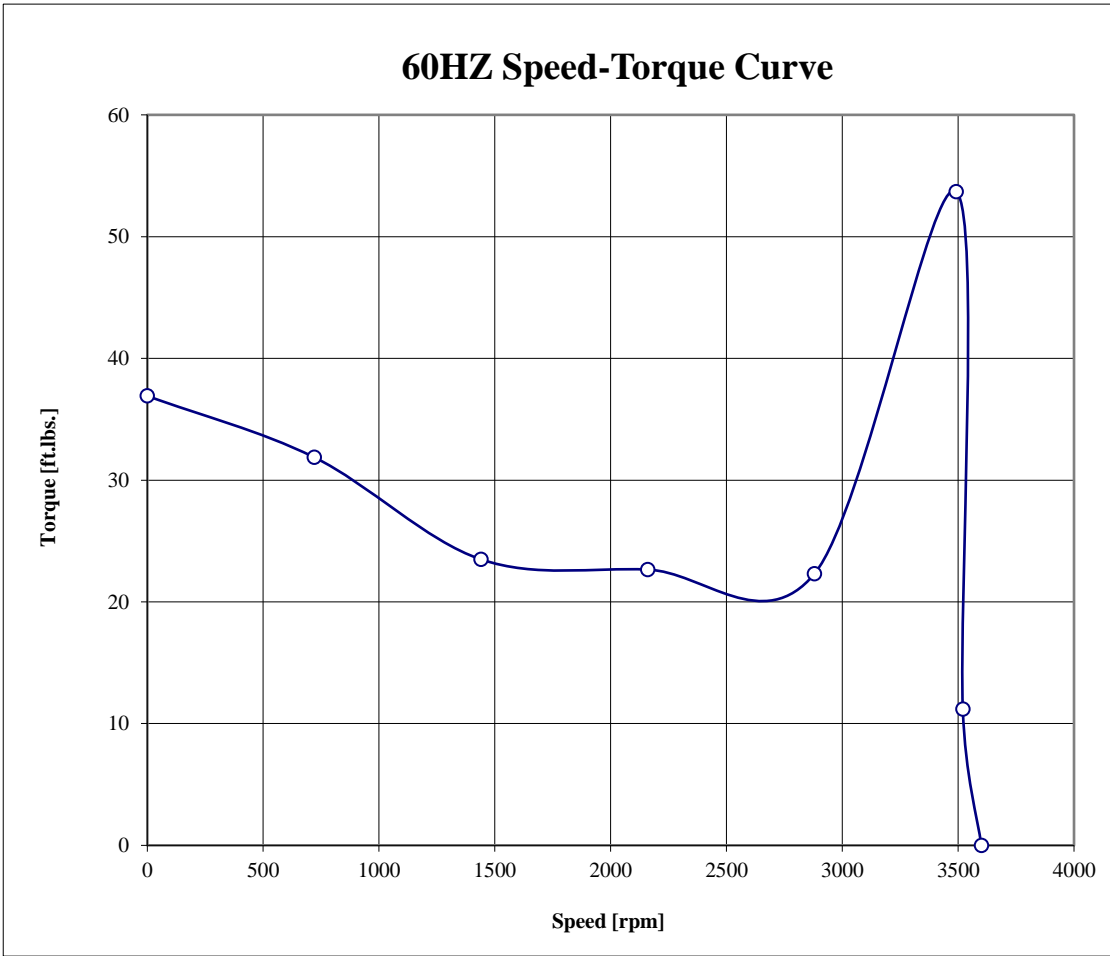
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%203%20Lead%20575%20NEMA.pdf>

Notes:

**Motor: BC2N7.5-5D**

	<b>Frame:</b>	213TD	7.5 HP	575 V	
	<b>Pole no.:</b>	2	11.2 ft.lbs.	60 Hz	3520 rpm

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

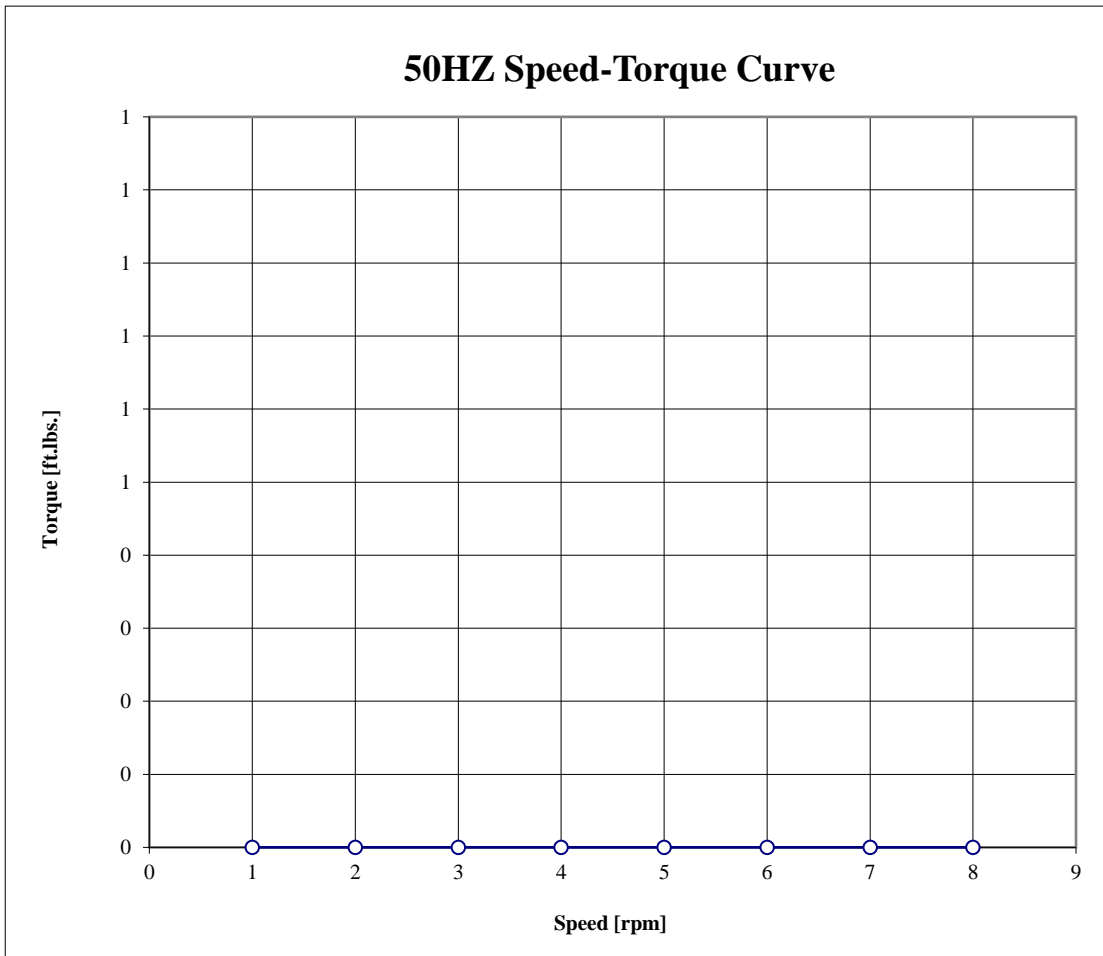


\*Curve base on calculated values

**50HZ Speed-Torque Curve not available for this motor**

				<b>Motor: BC2N7.5-5D</b>	
	<b>Frame:</b>	213TD	7.5 HP	400 V	
	<b>Pole no.:</b>	2	- ft.lbs.	50 Hz	- rpm

<b>Speed</b>	0	600	1200	1800	2400	2910	-	3000
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	-	1
<b>Mot. torque ratios</b>	3.3	2.8	2.1	2.0	2.0	4.8	1	0
<b>Motor torque / ft.lbs.</b>	-	-	-	-	-	-	-	-



\*Curve base on calculated values