



## 60HZ TECHNICAL DATA SHEET

CATALOG No: **BC6N003-4C**

ISSUED: 28-Apr-22

### GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
3	2.20	6	1200	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	B	-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	89.5	88.2	0.74	0.74	0.61

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		460 V	460 V	
310	230	4.20	26.90	1170

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
J	62082Z	63052Z	40 x 52 x 7	25 x 37 x 7	56

\*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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ISSUED: 28-Apr-22

**GENERAL INFORMATION**

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
3	2.20	6	1000	213TC	400 V	50	3	IP55

Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
TEFC	F	1.00	S1	B	-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
86.5	87.0	85.5	0.80	0.75	0.65

LRT %	BDT %	Full Load Amps		Locked Rotor Amps		Full Load RPM
		400 V		400 V		
310	230	4.83		30.94		960

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
J	62082Z	63052Z	40 x 52 x 7	25 x 37 x 7	56

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

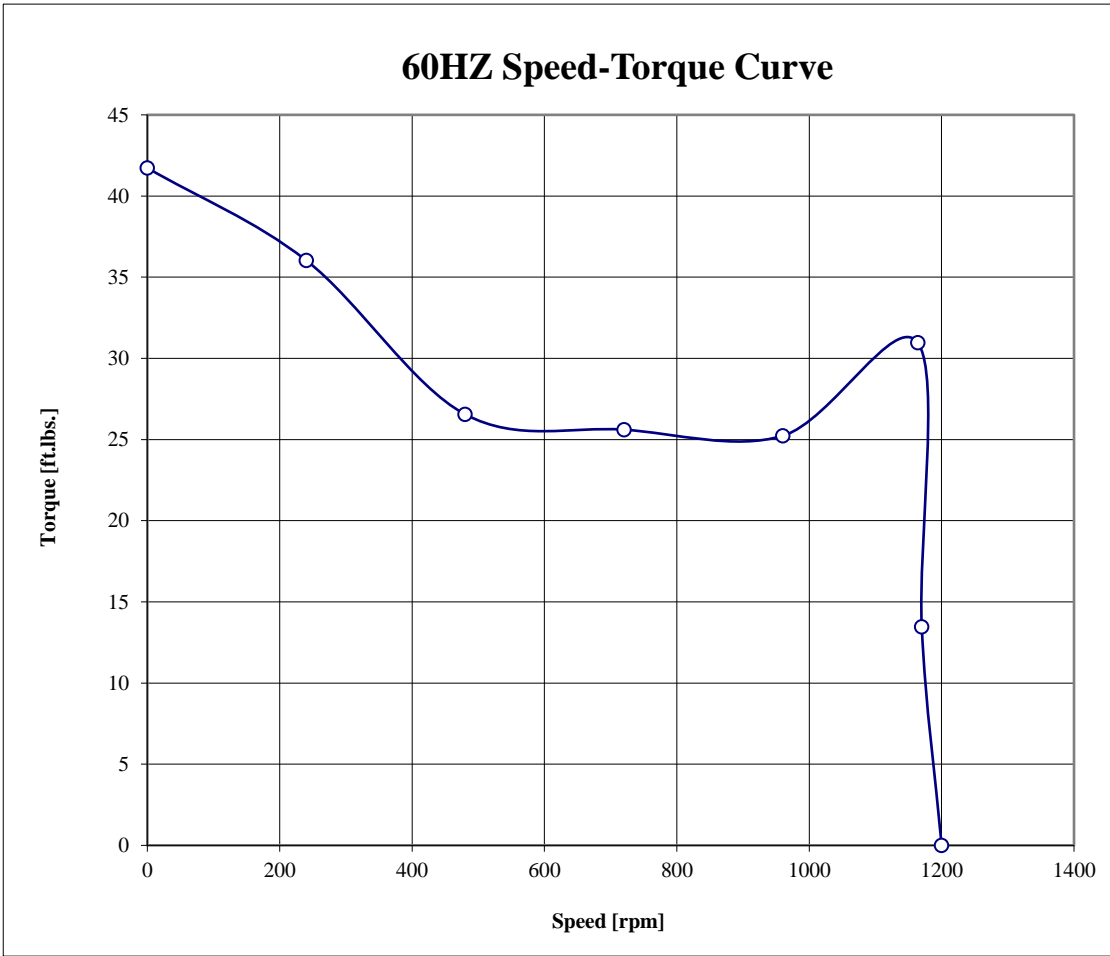
**Click Link Below For Connection Diagram**

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

Notes:

<b>Motor: BC6N003-4C</b>				
<b>Frame:</b>	213TC	3 HP	460 V	
<b>Pole no.:</b>	6	13.5 ft.lbs.	60 Hz	1170 rpm

<b>Speed</b>	0	240	480	720	960	1164	1170	1200
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	0.975	1
<b>Mot. torque ratios</b>	3.1	2.7	2.0	1.9	1.9	2.3	1	0
<b>Motor torque / ft.lbs.</b>	42	36	27	26	25	31	13	0

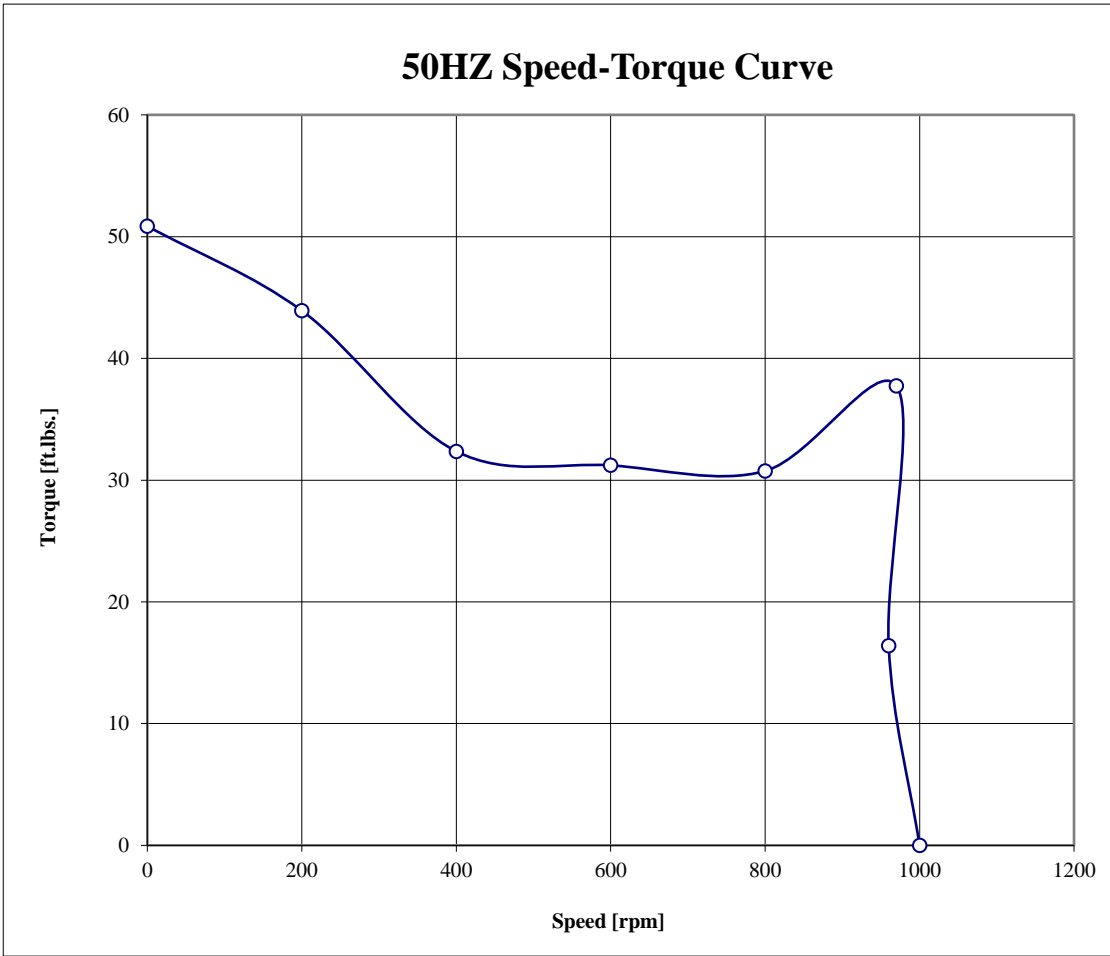


\*Curve base on calculated values

**Motor: BC6N003-4C**

	<b>Frame:</b>	213TC	3 HP	400 V	
	<b>Pole no.:</b>	6	16.4 ft.lbs.	50 Hz	960 rpm

<b>Speed</b>	0	200	400	600	800	970	960	1000
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	0.960	1
<b>Mot. torque ratios</b>	3.1	2.7	2.0	1.9	1.9	2.3	1	0
<b>Motor torque / ft.lbs.</b>	51	44	32	31	31	38	16	0



\*Curve base on calculated values