



## 60HZ TECHNICAL DATA SHEET

CATALOG No: **BC4N003-4D**

ISSUED: 28-Apr-22

### GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
3	2.20	4	1800	182TD	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	89.0	86.5	0.79	0.71	0.57

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		460 V	460 V	
250	300	3.90	29.20	1760

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
N	62062Z	62052Z	30 x 42 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-DF182.4TD.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
3	2.20	4	1500	182TD	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	87.5	87.0	0.86	0.82	0.73

LRT %	BDT %	Full Load Amps		Locked Rotor Amps		Full Load RPM
		400 V		400 V		
250	300	4.49		33.58		1440

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
N	62062Z	62052Z	30 x 42 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://brookcromptonna.com/Drawings/W-NEMA/NEMA%20Cast%20Iron%20B35/WP-DF182,4TD.pdf>

**Click Link Below For Connection Diagram**

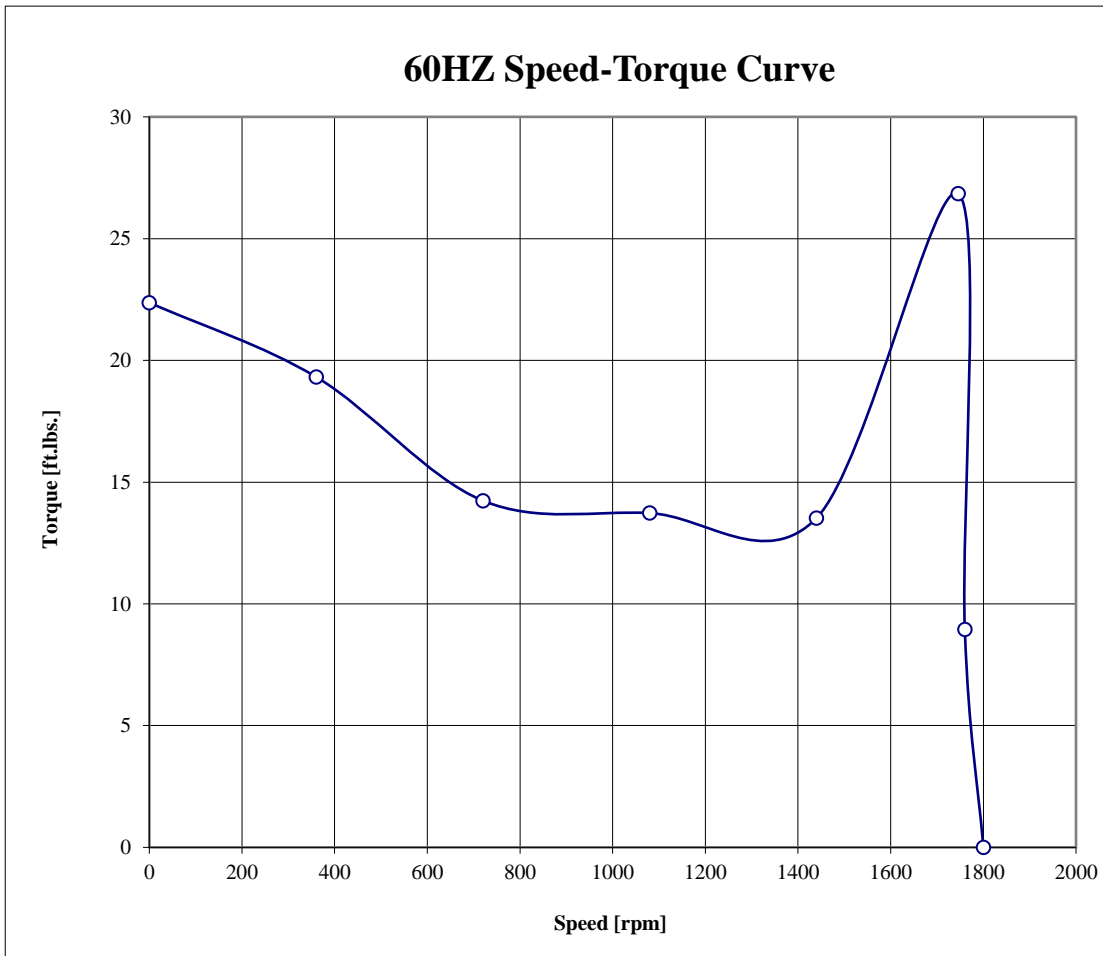
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%209%20Lead%202X4%20NEMA.pdf>

Notes:

**Motor: BC4N003-4D**

	<b>Frame:</b>	182TD	3 HP	460 V	
	<b>Pole no.:</b>	4	8.9 ft.lbs.	60 Hz	1760 rpm

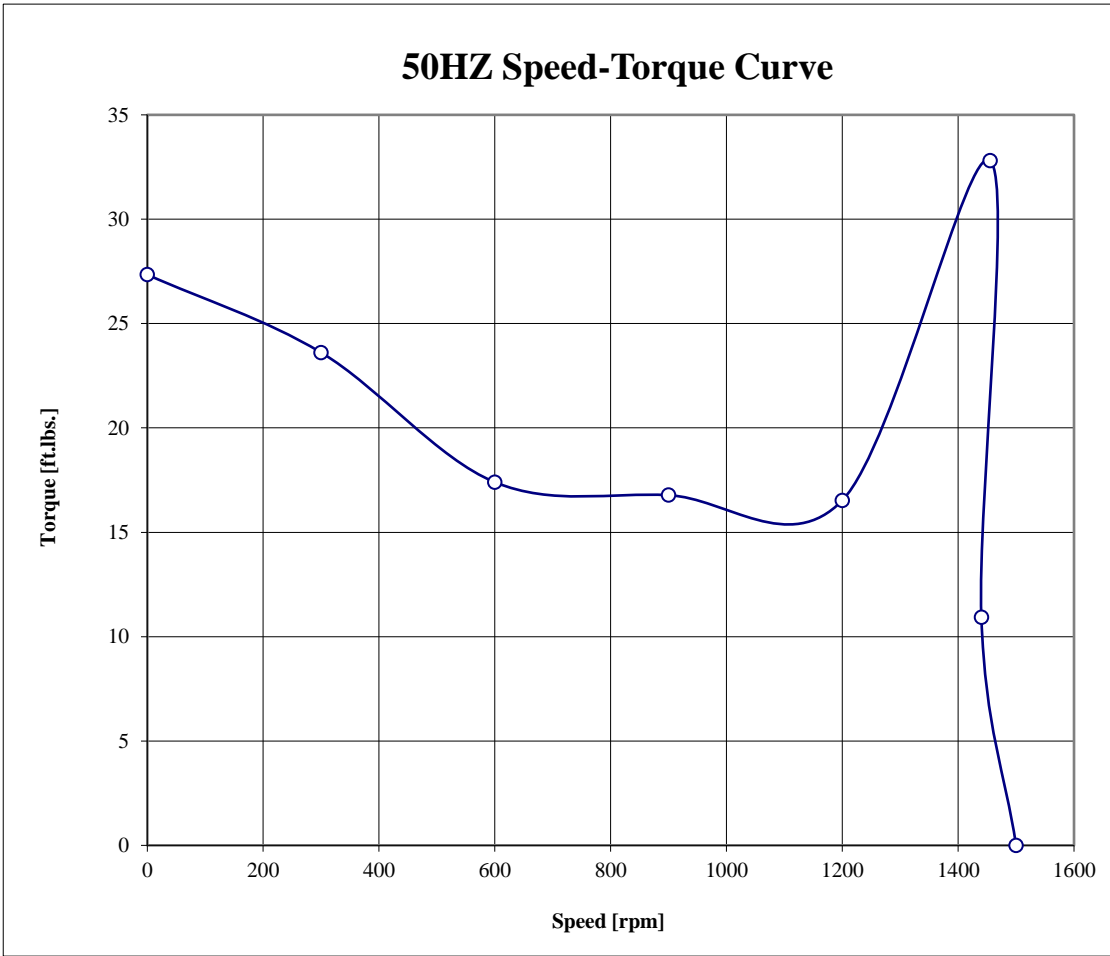
<b>Speed</b>	0	360	720	1080	1440	1746	1760	1800
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	0.978	1
<b>Mot. torque ratios</b>	2.5	2.2	1.6	1.5	1.5	3	1	0
<b>Motor torque / ft.lbs.</b>	22	19	14	14	14	27	9	0



\*Curve base on calculated values

<b>Motor: BC4N003-4D</b>				
<b>Frame:</b>	182TD	3 HP	400 V	
<b>Pole no.:</b>	4	10.9 ft.lbs.	50 Hz	1440 rpm

<b>Speed</b>	0	300	600	900	1200	1455	1440	1500
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	0.960	1
<b>Mot. torque ratios</b>	2.5	2.2	1.6	1.5	1.5	3	1	0
<b>Motor torque / ft.lbs.</b>	27	24	17	17	17	33	11	0



\*Curve base on calculated values