

CATALOG No: **BC6N1.5-4D**

ISSUED: 28-Apr-22

**GENERAL INFORMATION**

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
1.5	1.10	6	1200	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
87.5	86.6	85.0	0.73	0.72	0.60

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		460 V	460 V	
310	250	2.20	15.40	1150

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
K	62062Z	62052Z	30 x 42 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%20B35/WP-DF182.4TD.pdf>

**Click Link Below For Connection Diagram**

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

Notes:



## 50HZ TECHNICAL DATA SHEET

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### GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
1.5	1.10	6	1000	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	86.5	85.0	0.68	0.60	0.48

LRT %	BDT %	Full Load Amps		Locked Rotor Amps		Full Load RPM
		400 V		400 V		
310	250	2.53		17.71		960

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
K	62062Z	62052Z	30 x 42 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%20B35/WP-DF182\\_4TD.pdf](http://brookcromptonna.com/Drawings/W-NEMA/NEMA%20Cast%20Iron%20B35/WP-DF182_4TD.pdf)

### Click Link Below For Connection Diagram

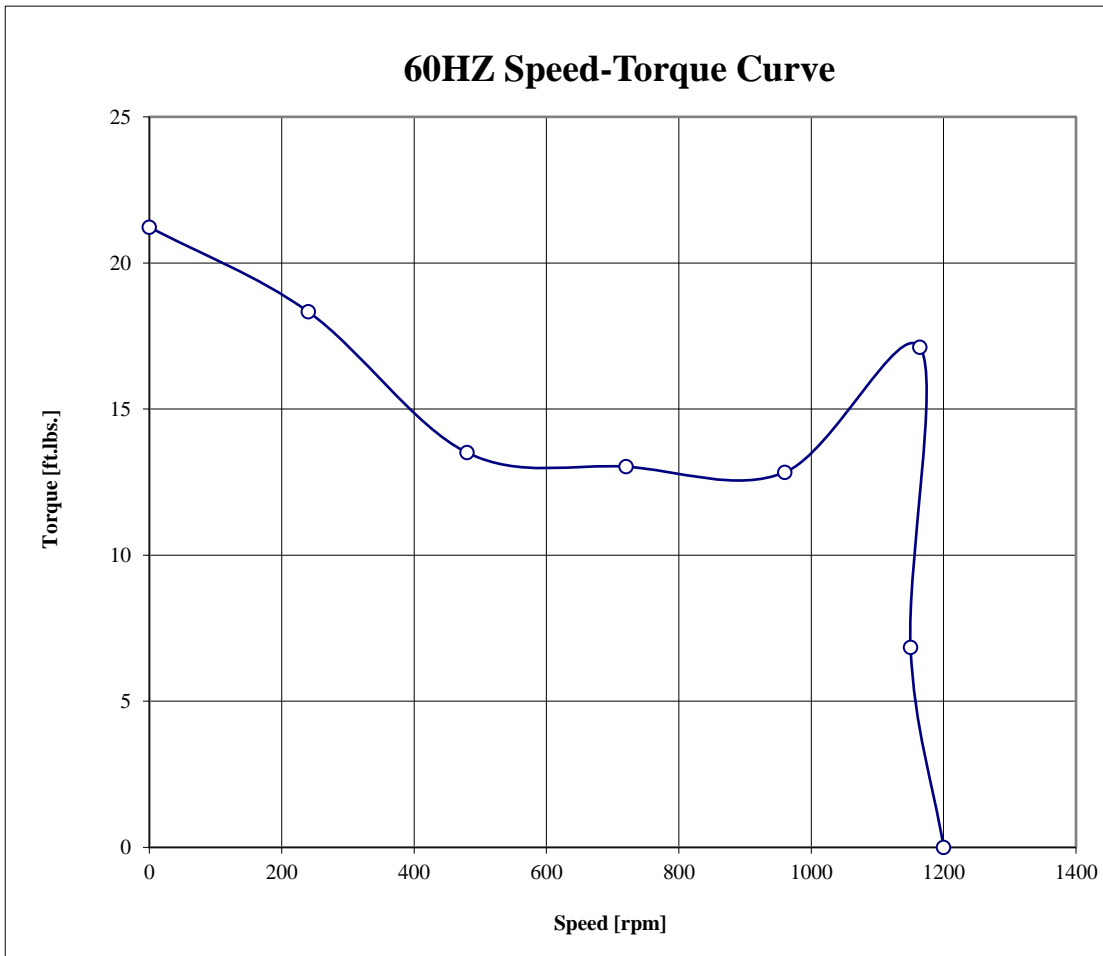
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%209%20Lead%20X4%20NEMA.pdf>

Notes:

**Motor: BC6N1.5-4D**

	<b>Frame:</b>	182TD	1.5 HP	460 V	
	<b>Pole no.:</b>	6	6.8 ft.lbs.	60 Hz	1150 rpm

<b>Speed</b>	0	240	480	720	960	1164	1150	1200
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	0.958	1
<b>Mot. torque ratios</b>	3.1	2.7	2.0	1.9	1.9	2.5	1	0
<b>Motor torque / ft.lbs.</b>	21	18	14	13	13	17	7	0

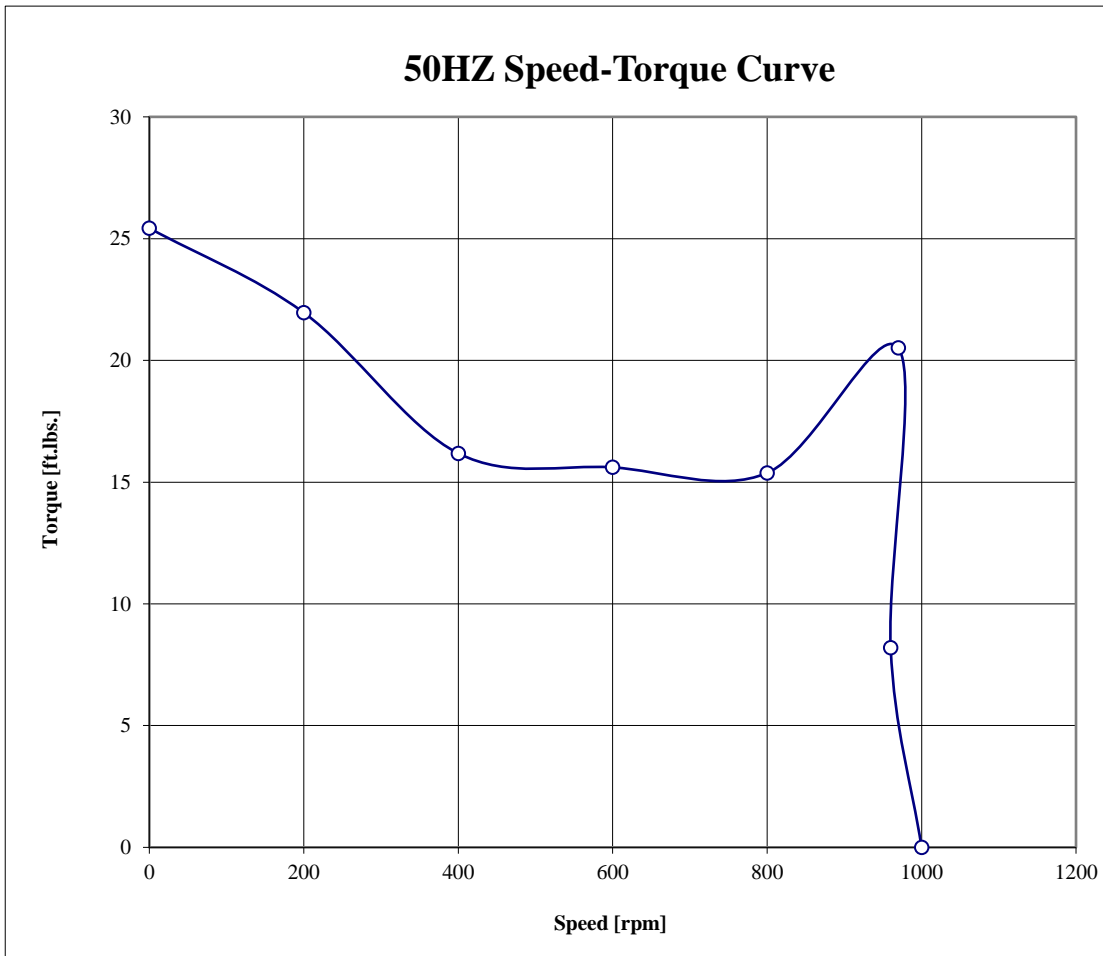


\*Curve base on calculated values

**Motor: BC6N1.5-4D**

	<b>Frame:</b>	182TD	1.5 HP	400 V	
	<b>Pole no.:</b>	6	8.2 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	2.5	1	0
<b>Motor torque / ft.lbs.</b>	25	22	16	16	15	21	8	0



\*Curve base on calculated values