

60HZ TECHNICAL DATA SHEET

CATALOG No: **BC6N002-4D**

ISSUED: 28-Apr-22

GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
2	1.50	6	1200	184TD	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
88.5	87.1	86.0	0.71	0.76	0.65

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		460 V	460 V	
280	240	3.00	19.80	1150

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
J	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:

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GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
2	1.50	6	1000	184TD	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
87.5	88.0	88.5	0.74	0.69	0.58

LRT %	BDT %	Full Load Amps		Locked Rotor Amps		Full Load RPM
		400 V		400 V		
280	240	3.45		22.77		955

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
J	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
-	-	-	

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<http://brookcromptonna.com/Drawings/W-NEMA/NEMA%20Cast%20Iron%20B35/WP-DF182,4TD.pdf>

Click Link Below For Connection Diagram

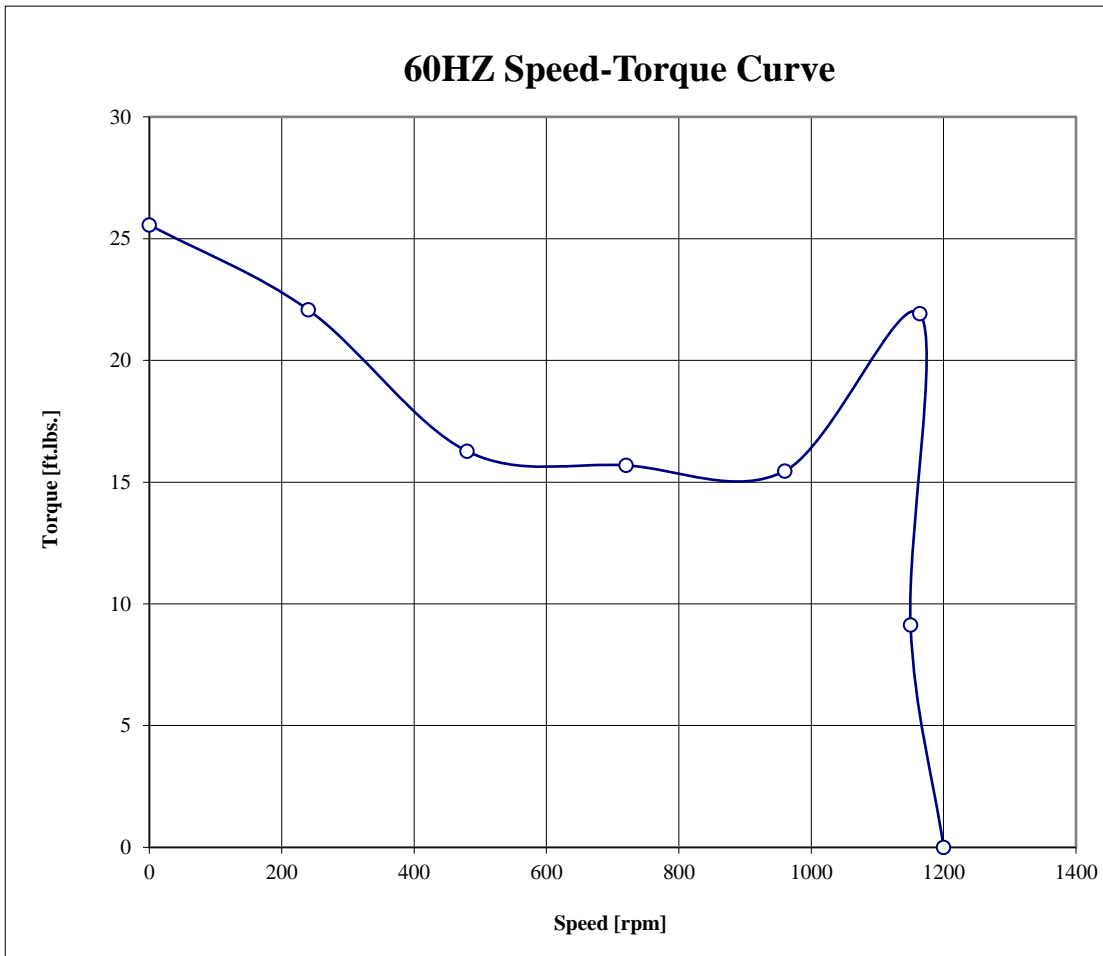
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%209%20Lead%202X4%20NEMA.pdf>

Notes:

Motor: BC6N002-4D

	Frame:	184TD	2 HP	460 V	
	Pole no.:	6	9.1 ft.lbs.	60 Hz	1150 rpm

Speed	0	240	480	720	960	1164	1150	1200
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.958	1
Mot. torque ratios	2.8	2.4	1.8	1.7	1.7	2.4	1	0
Motor torque / ft.lbs.	26	22	16	16	15	22	9	0

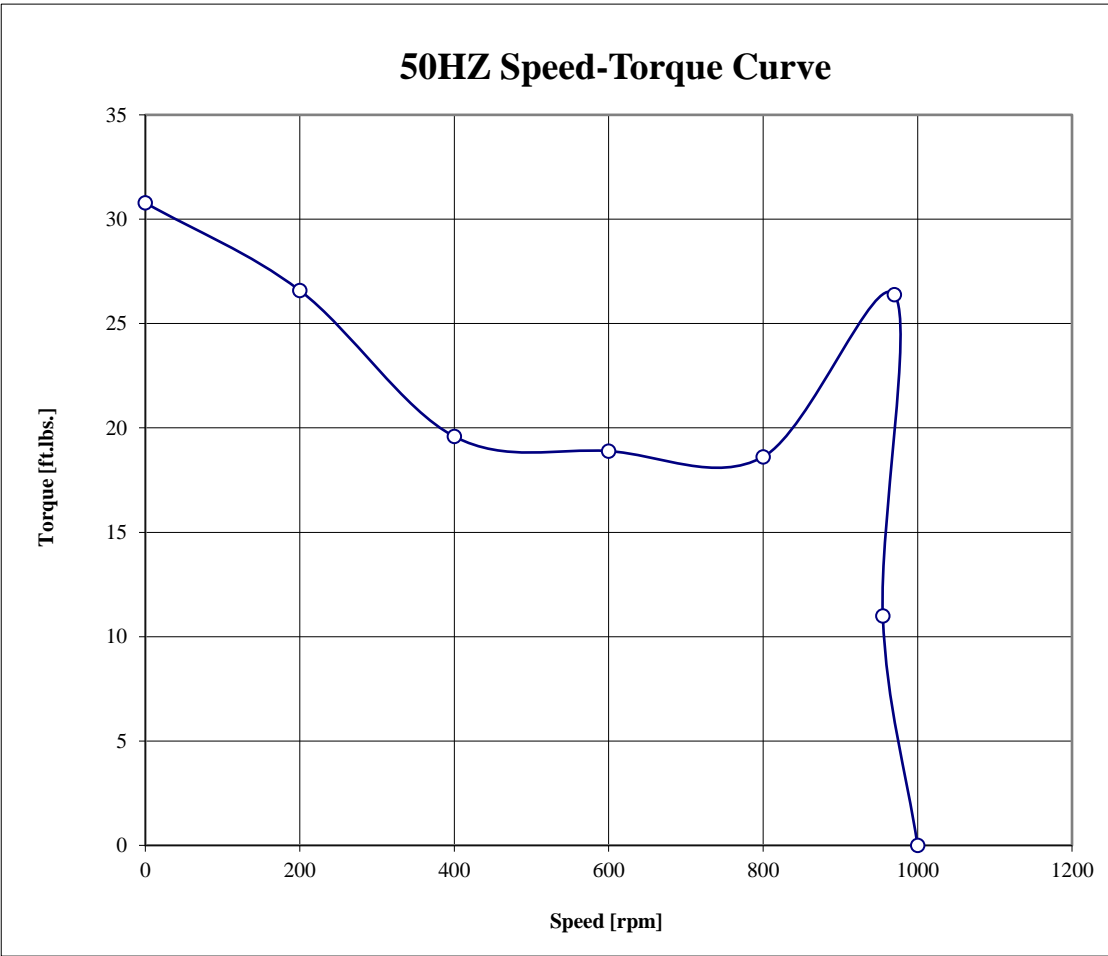


*Curve base on calculated values

Motor: BC6N002-4D

	Frame:	184TD	2 HP	400 V	
	Pole no.:	6	11.0 ft.lbs.	50 Hz	955 rpm

Speed	0	200	400	600	800	970	955	1000
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.955	1
Mot. torque ratios	2.8	2.4	1.8	1.7	1.7	2.4	1	0
Motor torque / ft.lbs.	31	27	20	19	19	26	11	0



*Curve base on calculated values