

CATALOG No: **BC4N005-4C**

ISSUED: 28-Apr-22

**GENERAL INFORMATION**

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
5	4.00	4	1800	184TC	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	89.0	0.83	0.76	0.64

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		460 V	460 V	
210	250	6.20	44.00	1745

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
H	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%20B34/WP-DF182.4TC.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
5	4.00	4	1500	184TC	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
85.5	88.0	89.5	0.89	0.88	0.84

LRT %	BDT %	Full Load Amps		Locked Rotor Amps		Full Load RPM
		400 V		400 V		
210	250	7.13		50.60		1415

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
H	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%20B34/WP-DF182,4TC.pdf>

**Click Link Below For Connection Diagram**

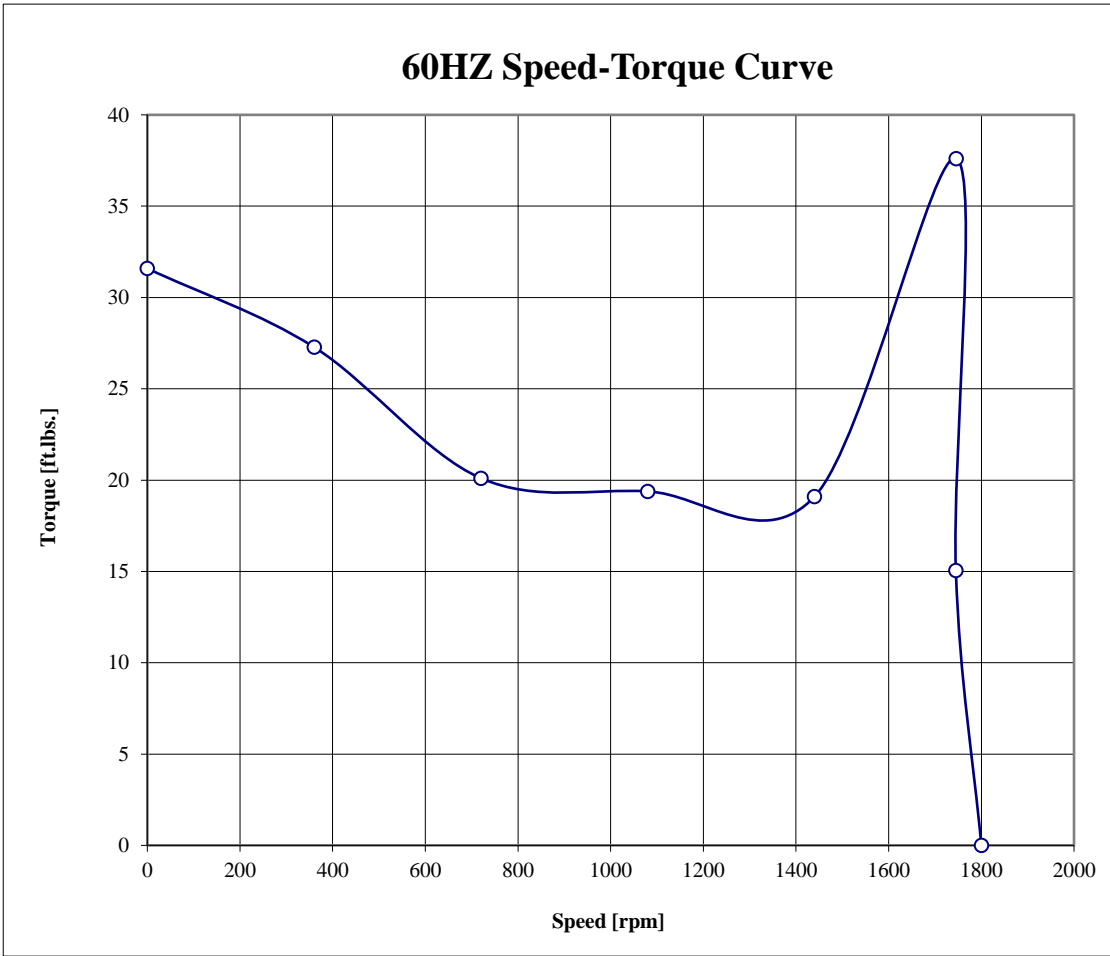
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%209%20Lead%202X4%20NEMA.pdf>

Notes:

**Motor: BC4N005-4C**

	<b>Frame:</b>	184TC	5 HP	460 V	
	<b>Pole no.:</b>	4	15.0 ft.lbs.	60 Hz	1745 rpm

<b>Speed</b>	0	360	720	1080	1440	1746	1745	1800
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	0.969	1
<b>Mot. torque ratios</b>	2.1	1.8	1.3	1.3	1.3	2.5	1	0
<b>Motor torque / ft.lbs.</b>	32	27	20	19	19	38	15	0

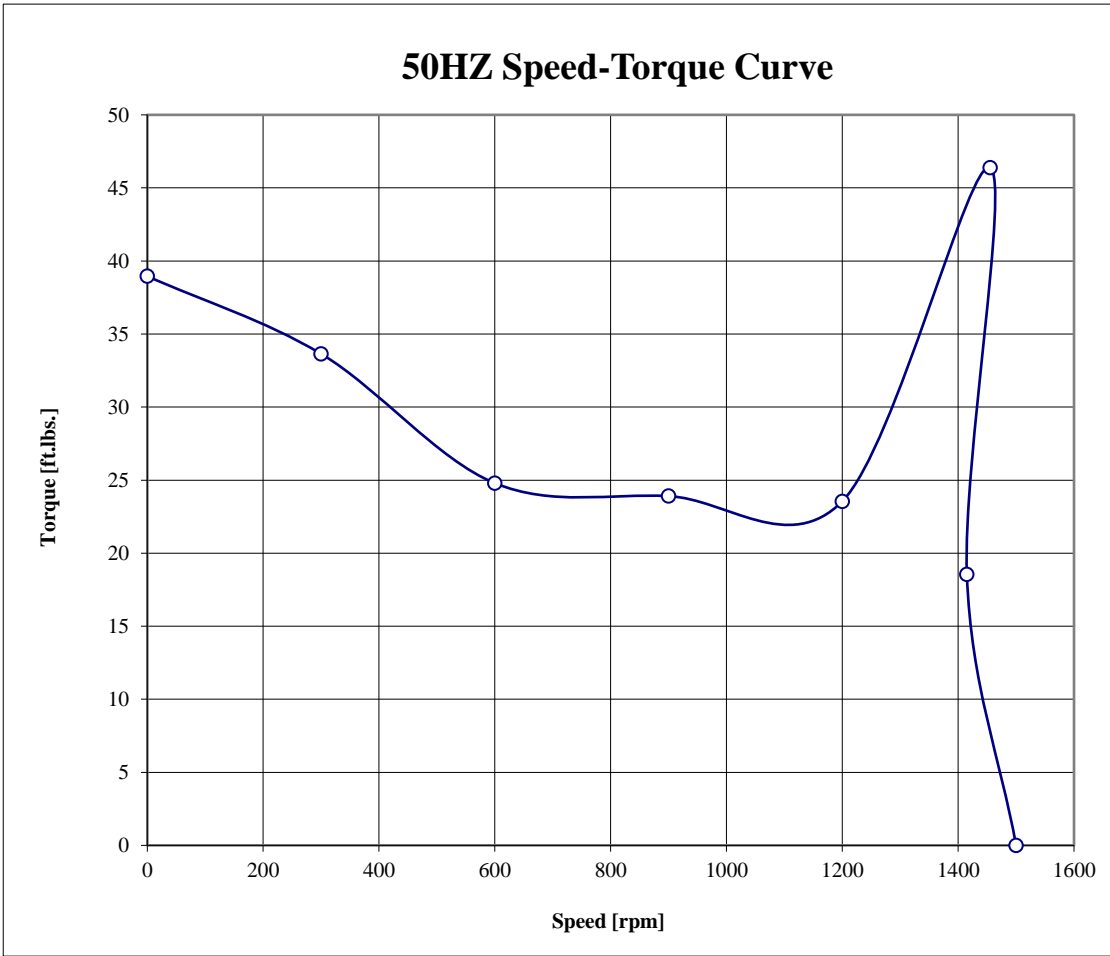


\*Curve base on calculated values

**Motor: BC4N005-4C**

	<b>Frame:</b>	184TC	5 HP	400 V	
	<b>Pole no.:</b>	4	18.6 ft.lbs.	50 Hz	1415 rpm

<b>Speed</b>	0	300	600	900	1200	1455	1415	1500
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	0.943	1
<b>Mot. torque ratios</b>	2.1	1.8	1.3	1.3	1.3	2.5	1	0
<b>Motor torque / ft.lbs.</b>	39	34	25	24	24	46	19	0



\*Curve base on calculated values