

CATALOG No: **BC4N003-5C**

ISSUED: 28-Apr-22

**GENERAL INFORMATION**

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
3	2.20	4	1800	182TC	575 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
		575 V	575 V	
250	300	3.10	23.40	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%20B34/WP-DF182.4TC.pdf>

**Click Link Below For Connection Diagram**

<http://www.brookcrompton.com/Connections/Connection%20Diagram%203%20Lead%20575%20NEMA.pdf>

Notes:

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**GENERAL INFORMATION**

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
3	2.20	4	-	182TC	-	50	3	IP55

Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
TEFC	F	-	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
		-	-	
250	300	-	-	-

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
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-	-	-	

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<http://brookcromptonna.com/Drawings/W-NEMA/NEMA%20Cast%20Iron%20B34/WP-DF182,4TC.pdf>

**Click Link Below For Connection Diagram**

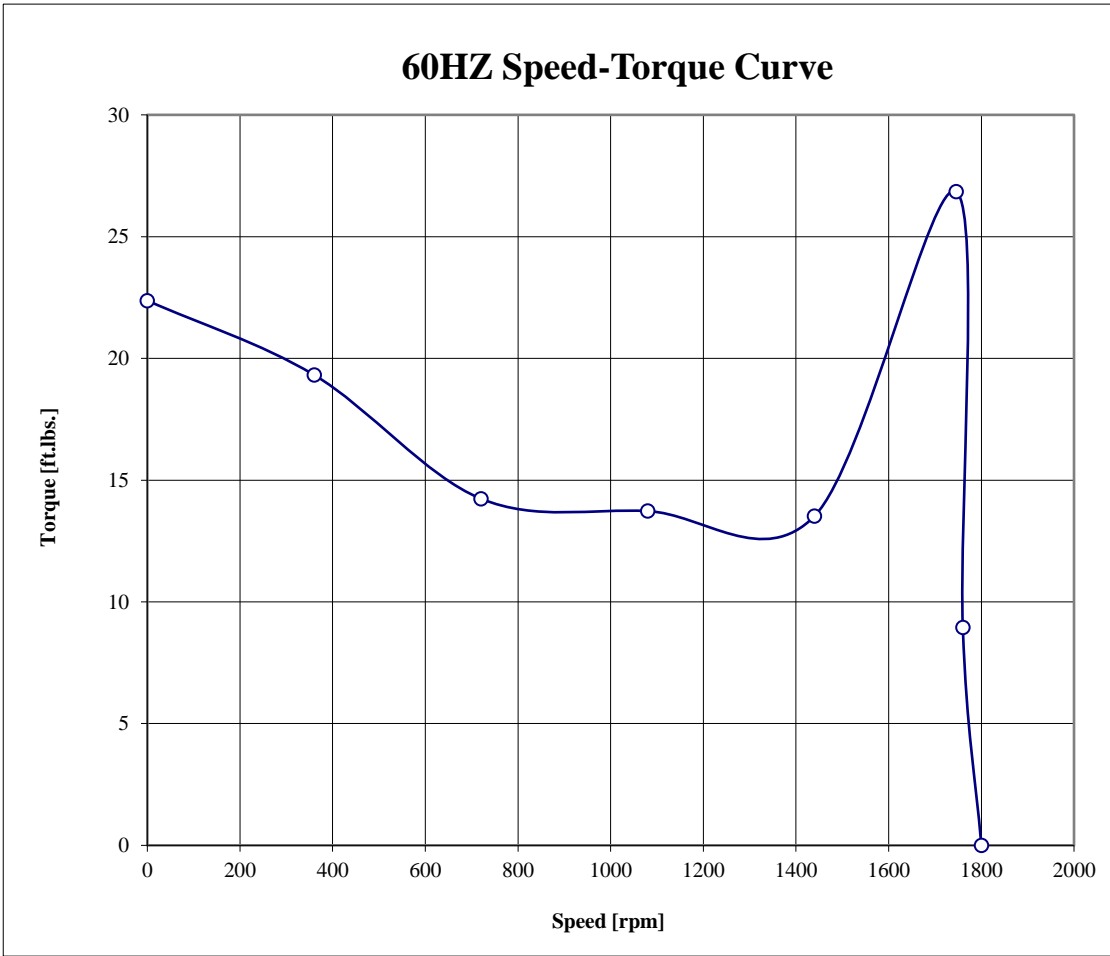
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%203%20Lead%20575%20NEMA.pdf>

Notes:

**Motor: BC4N003-5C**

	<b>Frame:</b>	182TC	3 HP	575 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

**50HZ Speed-Torque Curve not available for this motor**

				<b>Motor: BC4N003-5C</b>	
	<b>Frame:</b>	182TC	3 HP	400 V	
	<b>Pole no.:</b>	4	- ft.lbs.	50 Hz	- rpm

<b>Speed</b>	0	300	600	900	1200	1455	-	1500
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	-	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>	-	-	-	-	-	-	-	-



\*Curve base on calculated values