

CATALOG No: **BC4N025-5C**

ISSUED: 28-Apr-22

**GENERAL INFORMATION**

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
25	18.50	4	1800	284TC	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
93.6	94.0	93.7	0.89	0.87	0.80

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		575 V	575 V	
180	260	22.30	138.40	1770

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
F	63102Z	63082Z	50 x 65 x 8	40 x 52 x 7	60

\*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-DF284.6TC.pdf>

**Click Link Below For Connection Diagram**

<http://www.brookcrompton.com/Connections/Connection%20Diagram%206%20Lead%20575%20NEMA.pdf>

Notes:

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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
91.7	92.5	93.0	0.90	0.90	0.88

LRT %	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		-	-	
180	260	-	-	-

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
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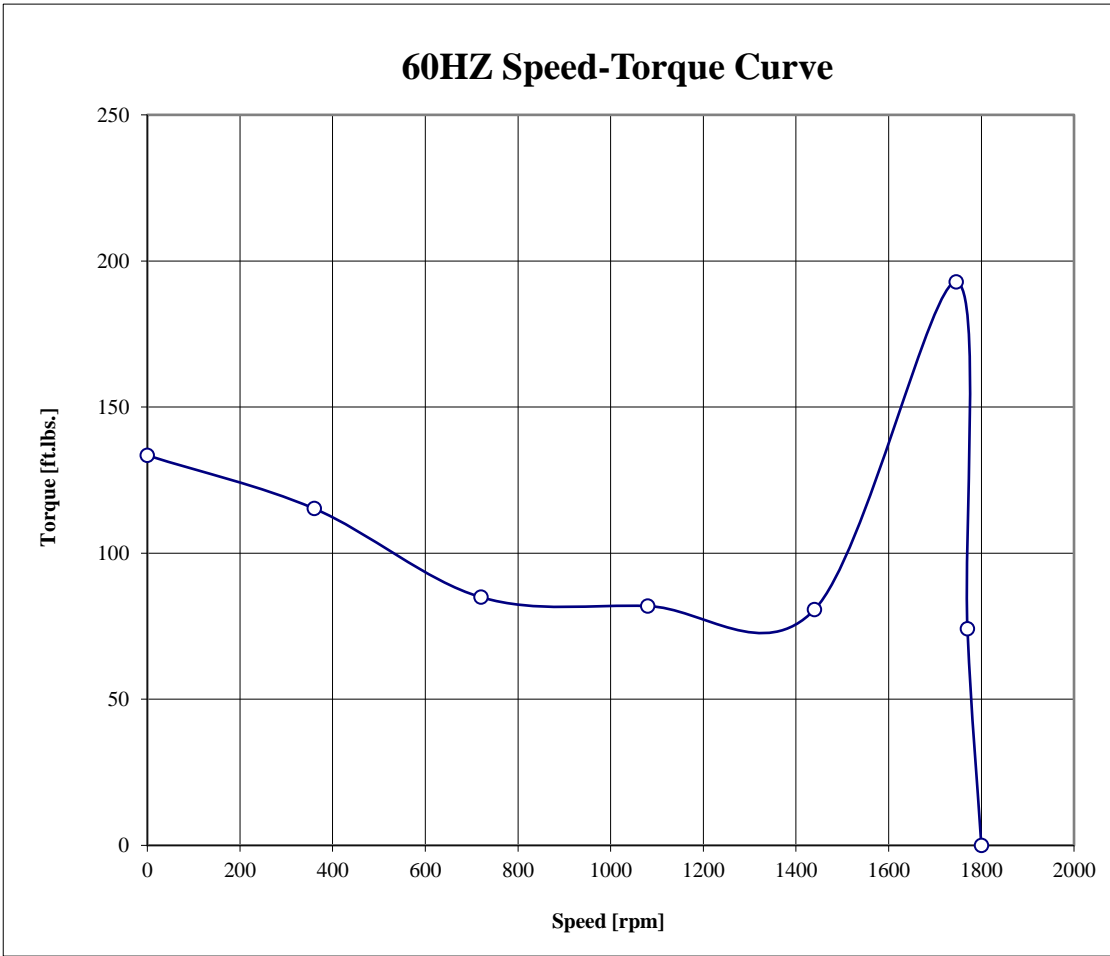
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%206%20Lead%20575%20NEMA.pdf>

Notes:

**Motor: BC4N025-5C**

	<b>Frame:</b>	284TC	25 HP	575 V	
	<b>Pole no.:</b>	4	74.2 ft.lbs.	60 Hz	1770 rpm

<b>Speed</b>	0	360	720	1080	1440	1746	1770	1800
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	0.983	1
<b>Mot. torque ratios</b>	1.8	1.6	1.1	1.1	1.1	2.6	1	0
<b>Motor torque / ft.lbs.</b>	133	115	85	82	81	193	74	0



\*Curve base on calculated values

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

				<b>Motor: BC4N025-5C</b>	
	<b>Frame:</b>	284TC	25 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>	1.8	1.6	1.1	1.1	1.1	2.6	1	0
<b>Motor torque / ft.lbs.</b>	-	-	-	-	-	-	-	-



\*Curve base on calculated values