

60HZ TECHNICAL DATA SHEET

CATALOG No: **BC6N020-4C**

ISSUED: 28-Apr-22

GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
20	15.00	6	1200	286TC	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
91.7	93.2	92.6	0.80	0.87	0.79

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		460 V	460 V	
340	230	25.70	187.60	1175

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
J	63102Z	63082Z	50 x 65 x 8	40 x 52 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-DF284.6TC.pdf>

Click Link Below For Connection Diagram

<http://www.brookcrompton.com/Connections/Connection%20Diagram%2012%20Lead%20X4%20NEMA.pdf>

Notes:

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ISSUED: 28-Apr-22

GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
20	15.00	6	1000	286TC	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
88.5	90.5	91.5	0.85	0.85	0.80

LRT %	BDT %	Full Load Amps		Locked Rotor Amps		Full Load RPM
		400 V		400 V		
340	230	29.56		215.74		960

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
J	63102Z	63082Z	50 x 65 x 8	40 x 52 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
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Click Link Below For Connection Diagram

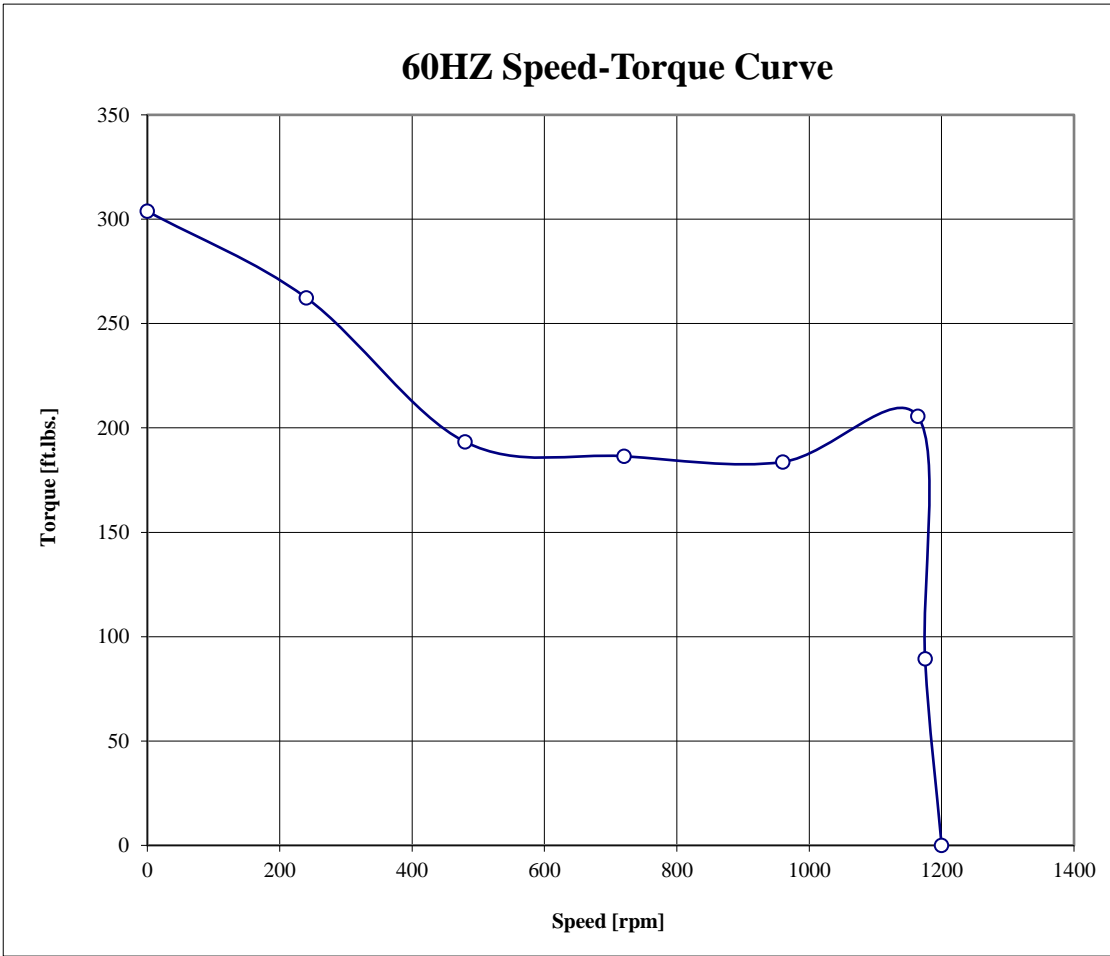
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%2012%20Lead%202X4%20NEMA.pdf>

Notes:

Motor: BC6N020-4C

	Frame:	286TC	20 HP	460 V	
	Pole no.:	6	89.4 ft.lbs.	60 Hz	1175 rpm

Speed	0	240	480	720	960	1164	1175	1200
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.979	1
Mot. torque ratios	3.4	2.9	2.2	2.1	2.1	2.3	1	0
Motor torque / ft.lbs.	304	262	193	186	184	206	89	0

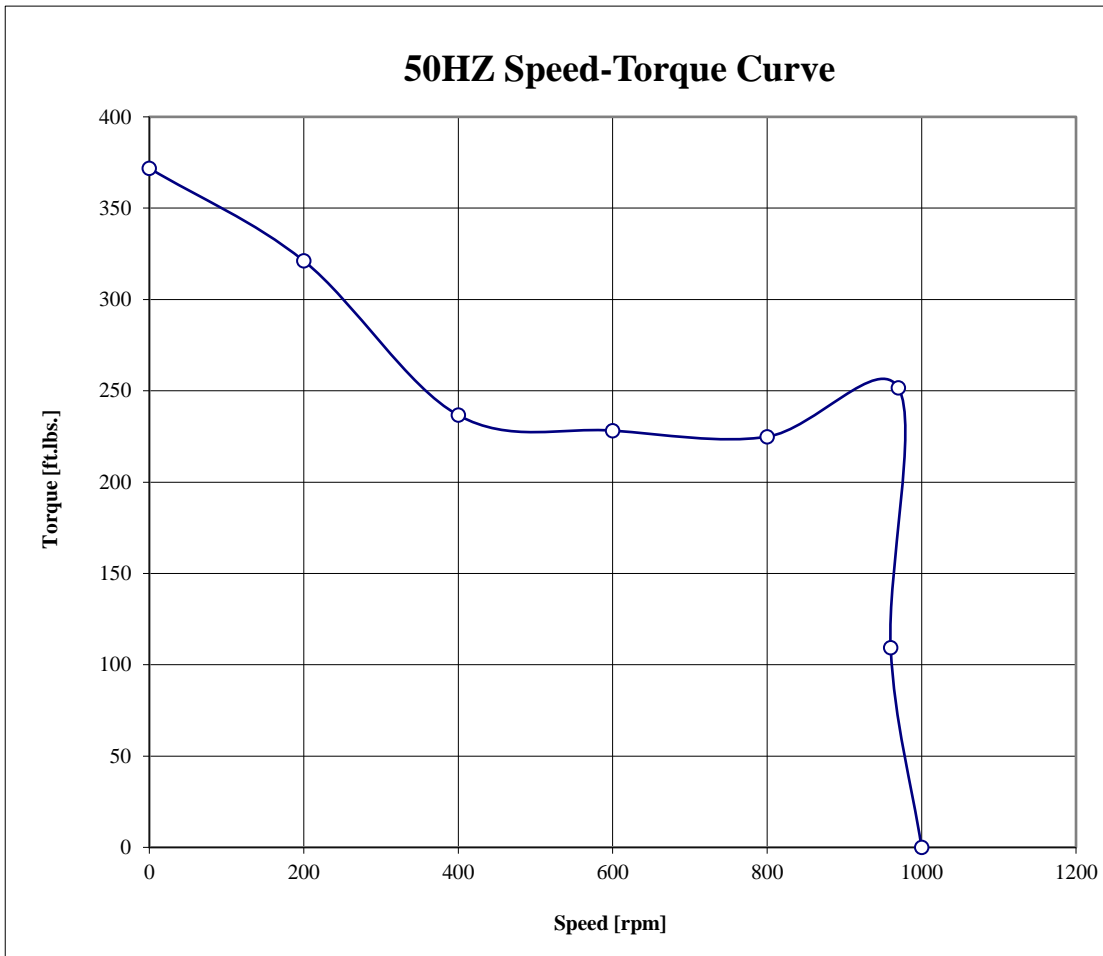


*Curve base on calculated values

Motor: BC6N020-4C

	Frame:	286TC	20 HP	400 V	
	Pole no.:	6	109.4 ft.lbs.	50 Hz	960 rpm

Speed	0	200	400	600	800	970	960	1000
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.960	1
Mot. torque ratios	3.4	2.9	2.2	2.1	2.1	2.3	1	0
Motor torque / ft.lbs.	372	321	237	228	225	252	109	0



*Curve base on calculated values