

**60HZ TECHNICAL DATA SHEET**

CATALOG No: **BC2N020-4D**

ISSUED: 28-Apr-22

**GENERAL INFORMATION**

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
20	15.00	2	3600	256TD	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
91.0	91.5	91.0	0.93	0.91	0.89

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		460 V	460 V	
160	340	22.20	133.00	3515

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
F	63092Z	63072Z	45 x 60 x 8	35 x 47 x 7	65

\*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%20B35/WP-DF254.6TD.pdf>

**Click Link Below For Connection Diagram**

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

Notes:

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**GENERAL INFORMATION**

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
20	15.00	2	3000	256TD	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
89.5	91.0	92.0	0.92	0.92	0.90

LRT %	BDT %	Full Load Amps		Locked Rotor Amps		Full Load RPM
		400 V		400 V		
160	340	25.53		152.95		2890

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
F	63092Z	63072Z	45 x 60 x 8	35 x 47 x 7	65

\*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%20B35/WP-DF254.6TD.pdf>

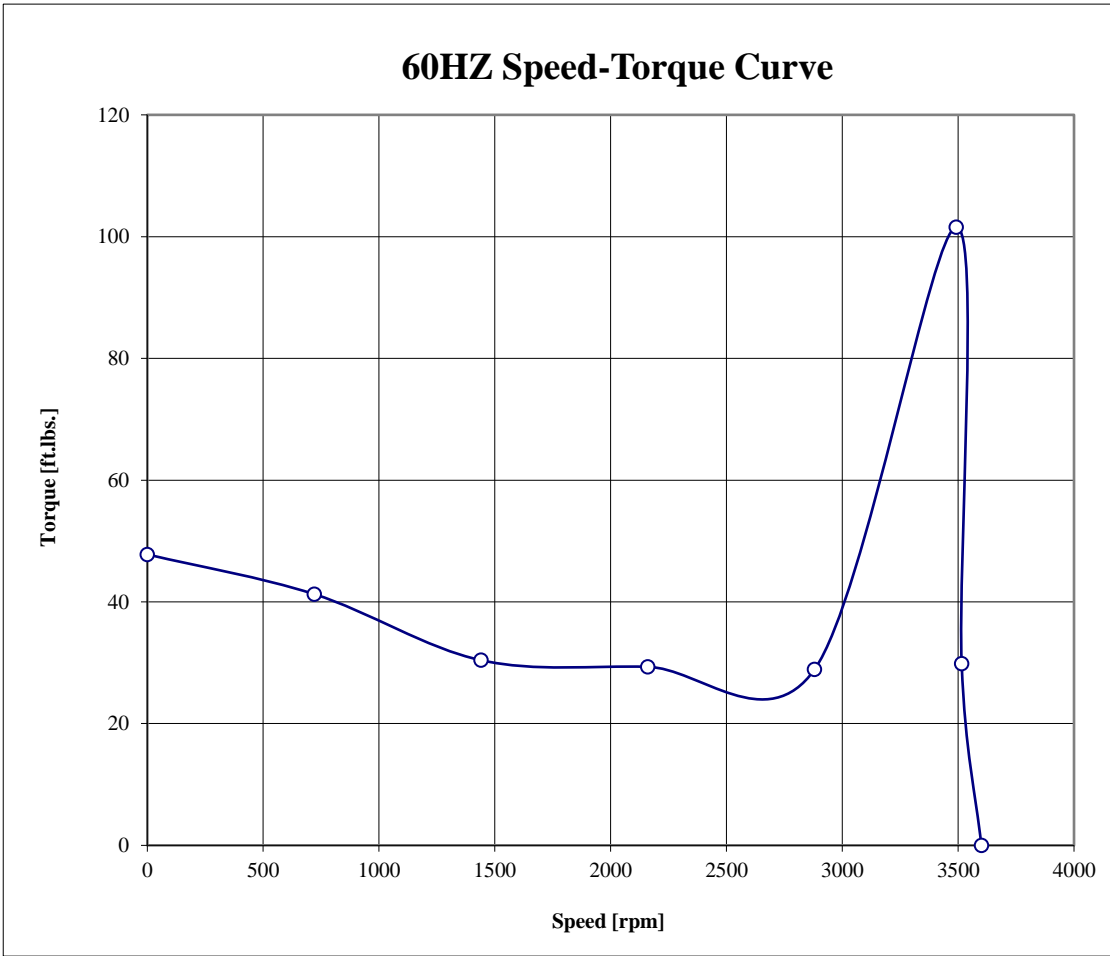
**Click Link Below For Connection Diagram**

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

Notes:

<b>Motor: BC2N020-4D</b>				
	<b>Frame:</b>	256TD	20 HP	460 V
	<b>Pole no.:</b>	2	29.9 ft.lbs.	60 Hz
				3515 rpm

<b>Speed</b>	0	720	1440	2160	2880	3492	3515	3600
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	0.976	1
<b>Mot. torque ratios</b>	1.6	1.4	1.0	1.0	1.0	3.4	1	0
<b>Motor torque / ft.lbs.</b>	48	41	30	29	29	102	30	0

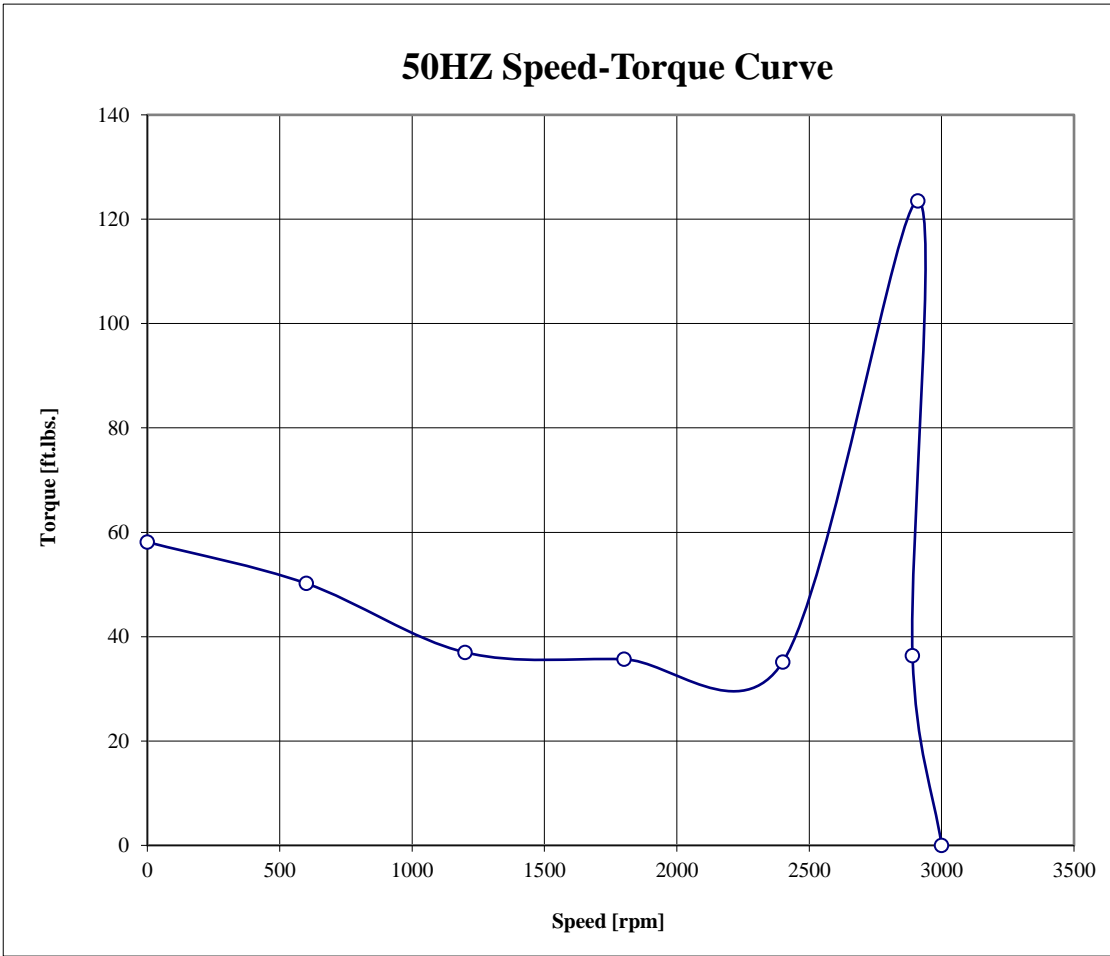


\*Curve base on calculated values

**Motor: BC2N020-4D**

	<b>Frame:</b>	256TD	20 HP	400 V	
	<b>Pole no.:</b>	2	36.3 ft.lbs.	50 Hz	2890 rpm

<b>Speed</b>	0	600	1200	1800	2400	2910	2890	3000
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	0.963	1
<b>Mot. torque ratios</b>	1.6	1.4	1.0	1.0	1.0	3.4	1	0
<b>Motor torque / ft.lbs.</b>	58	50	37	36	35	124	36	0



\*Curve base on calculated values