

60HZ TECHNICAL DATA SHEET

CATALOG No: **BC2N1.5-4D**

ISSUED: 28-Apr-22

GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
1.5	1.10	2	3600	143TD	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
84.0	84.1	83.5	0.86	0.82	0.75

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		460 V	460 V	
370	400	1.90	15.00	3495

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
J	62052Z	62032Z	25 x 35 x 7	17 x 28 x 6	72

*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%20B35/WP-DF143.5TD.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
1.5	1.10	2	3000	143TD	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
82.5	83.0	83.0	0.90	0.87	0.79

LRT %	BDT %	Full Load Amps		Locked Rotor Amps		Full Load RPM
		400 V		400 V		
370	400	2.19		17.25		2830

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
J	62052Z	62032Z	25 x 35 x 7	17 x 28 x 6	72

*Weights shown are estimated and based on standard foot mounted motor designs

VFD DUTY INFORMATION

	Variable Torque	Constant Torque	Rating
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-	-	-	

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<http://brookcromptonna.com/Drawings/W-NEMA/NEMA%20Cast%20Iron%20B35/WP-DF143.5TD.pdf>

Click Link Below For Connection Diagram

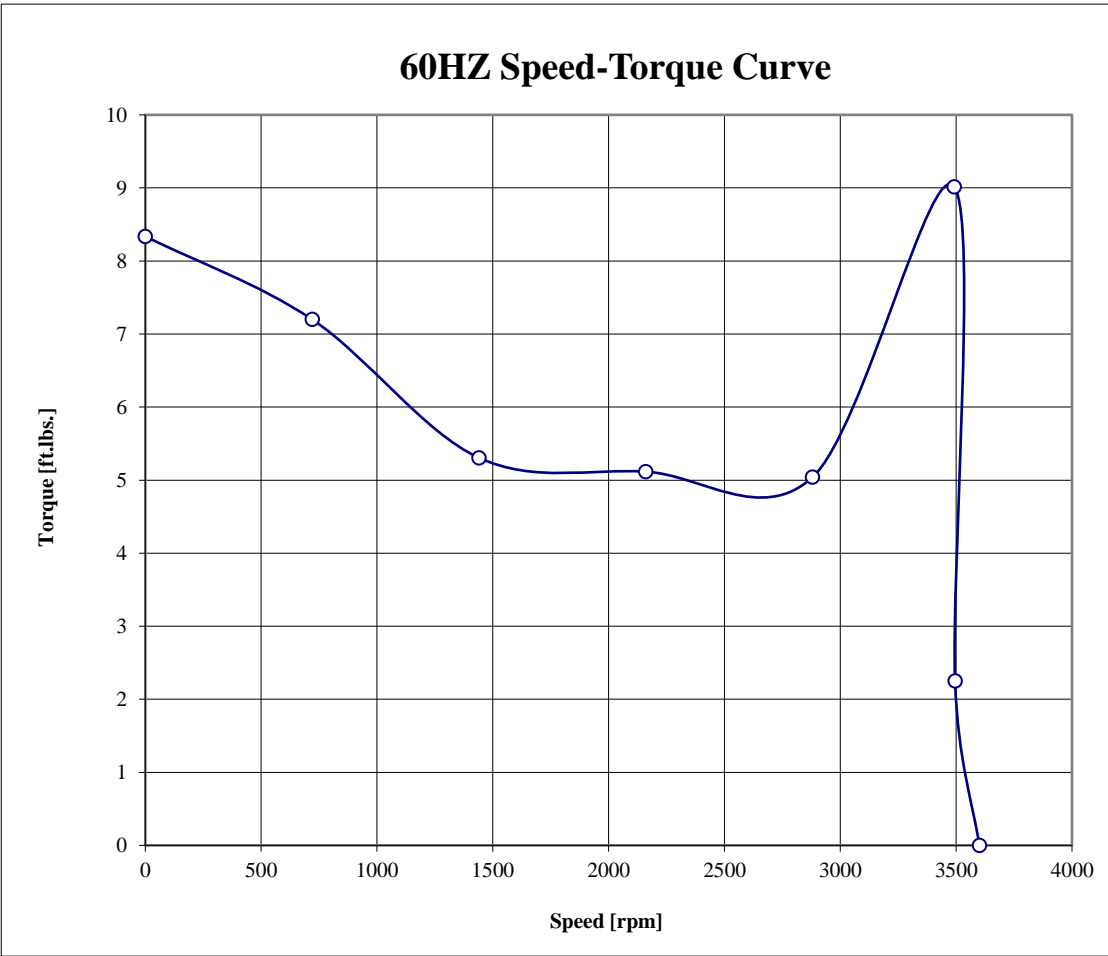
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%209%20Lead%202X4%20NEMA.pdf>

Notes:

Motor: BC2N1.5-4D

	Frame:	143TD	1.5 HP	460 V	
	Pole no.:	2	2.3 ft.lbs.	60 Hz	3495 rpm

Speed	0	720	1440	2160	2880	3492	3495	3600
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.971	1
Mot. torque ratios	3.7	3.2	2.4	2.3	2.2	4	1	0
Motor torque / ft.lbs.	8	7	5	5	5	9	2	0

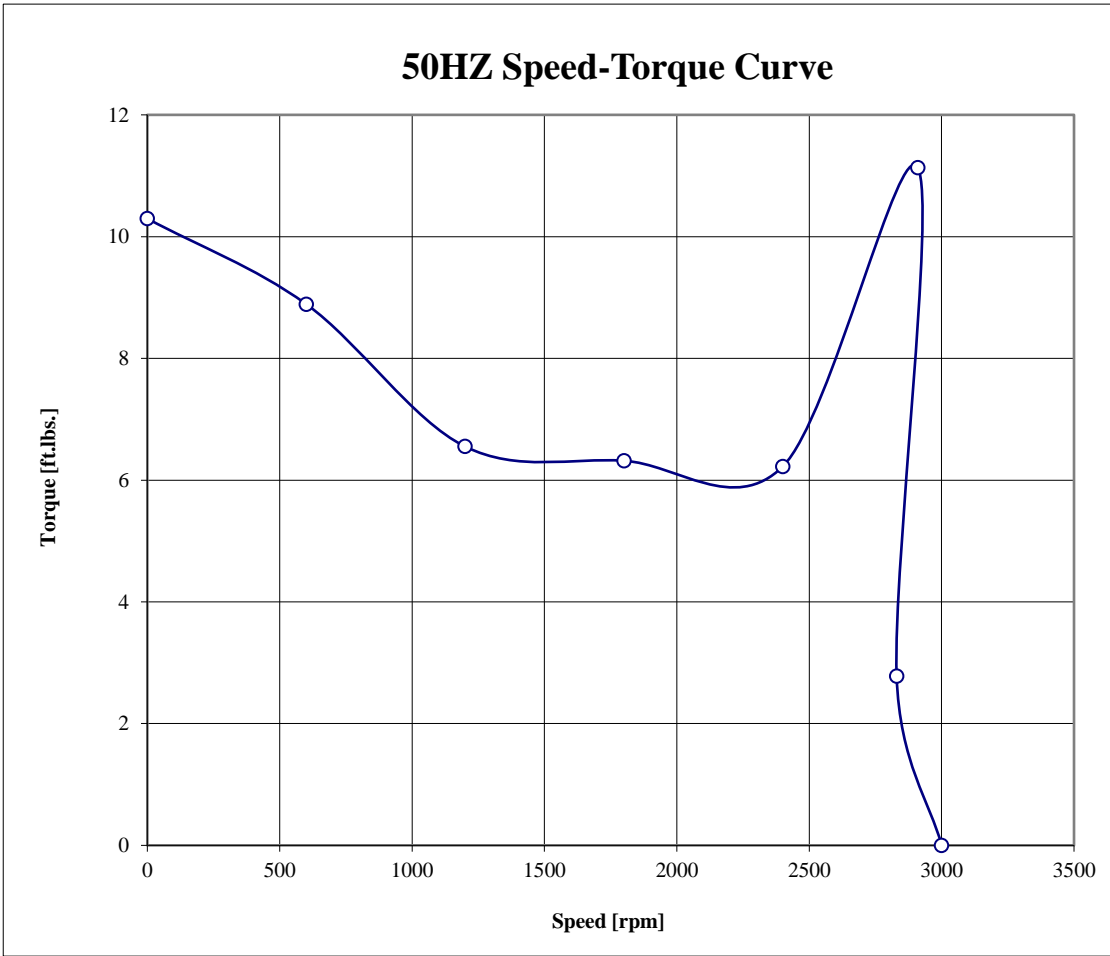


*Curve base on calculated values

Motor: BC2N1.5-4D

	Frame:	143TD	1.5 HP	400 V	
	Pole no.:	2	2.8 ft.lbs.	50 Hz	2830 rpm

Speed	0	600	1200	1800	2400	2910	2830	3000
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.943	1
Mot. torque ratios	3.7	3.2	2.4	2.3	2.2	4	1	0
Motor torque / ft.lbs.	10	9	7	6	6	11	3	0



*Curve base on calculated values