

**60HZ TECHNICAL DATA SHEET**

CATALOG No: **BC2N002-5D**

ISSUED: 28-Apr-22

**GENERAL INFORMATION**

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
2	1.50	2	3600	145TD	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
85.5	85.8	85.5	0.86	0.82	0.74

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		575 V	575 V	
300	330	2.00	15.60	3490

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%203%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
84.0	85.5	85.5	0.91	0.89	0.82

LRT %	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		-	-	
300	330	-	-	-

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
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**Click Link Below For Connection Diagram**

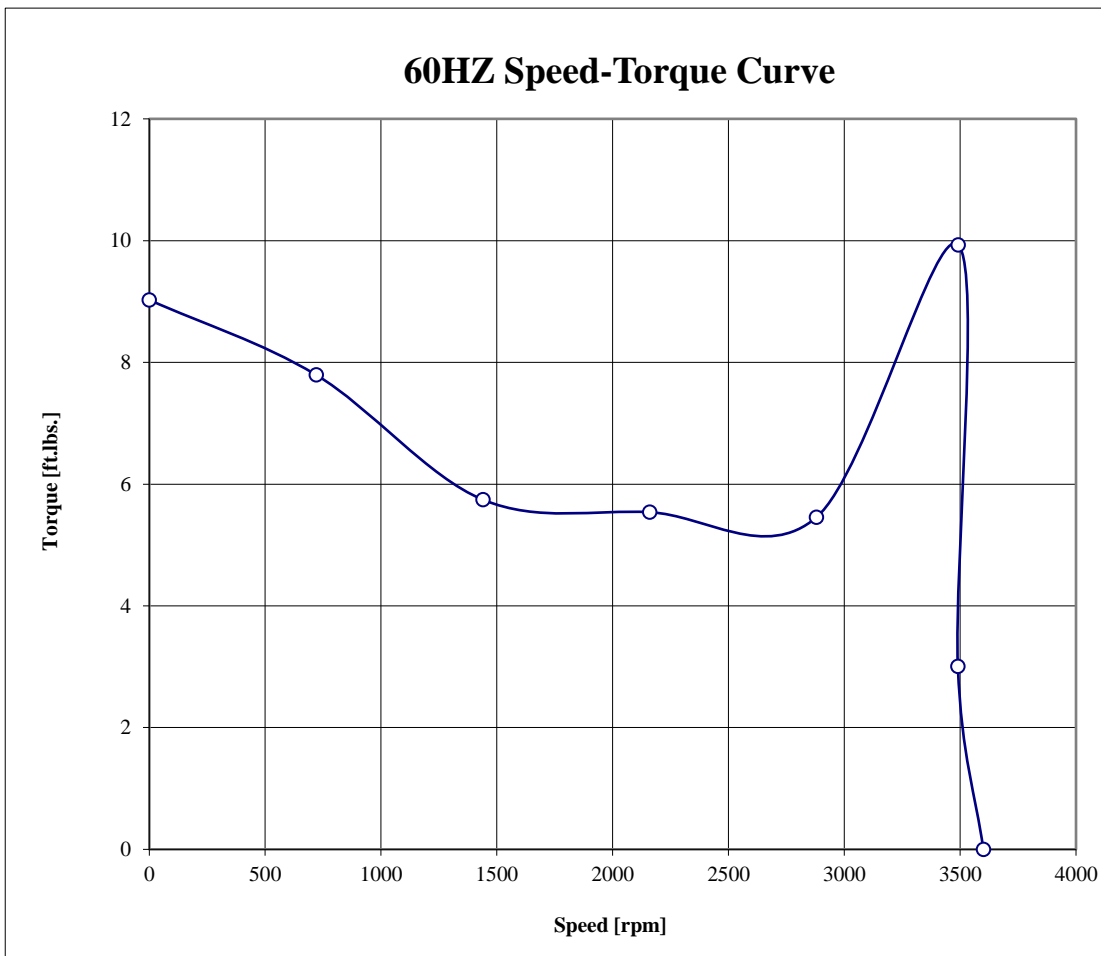
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%203%20Lead%20575%20NEMA.pdf>

Notes:

**Motor: BC2N002-5D**

	<b>Frame:</b>	145TD	2 HP	575 V	
	<b>Pole no.:</b>	2	3.0 ft.lbs.	60 Hz	3490 rpm

<b>Speed</b>	0	720	1440	2160	2880	3492	3490	3600
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	0.969	1
<b>Mot. torque ratios</b>	3	2.6	1.9	1.8	1.8	3.3	1	0
<b>Motor torque / ft.lbs.</b>	9	8	6	6	5	10	3	0



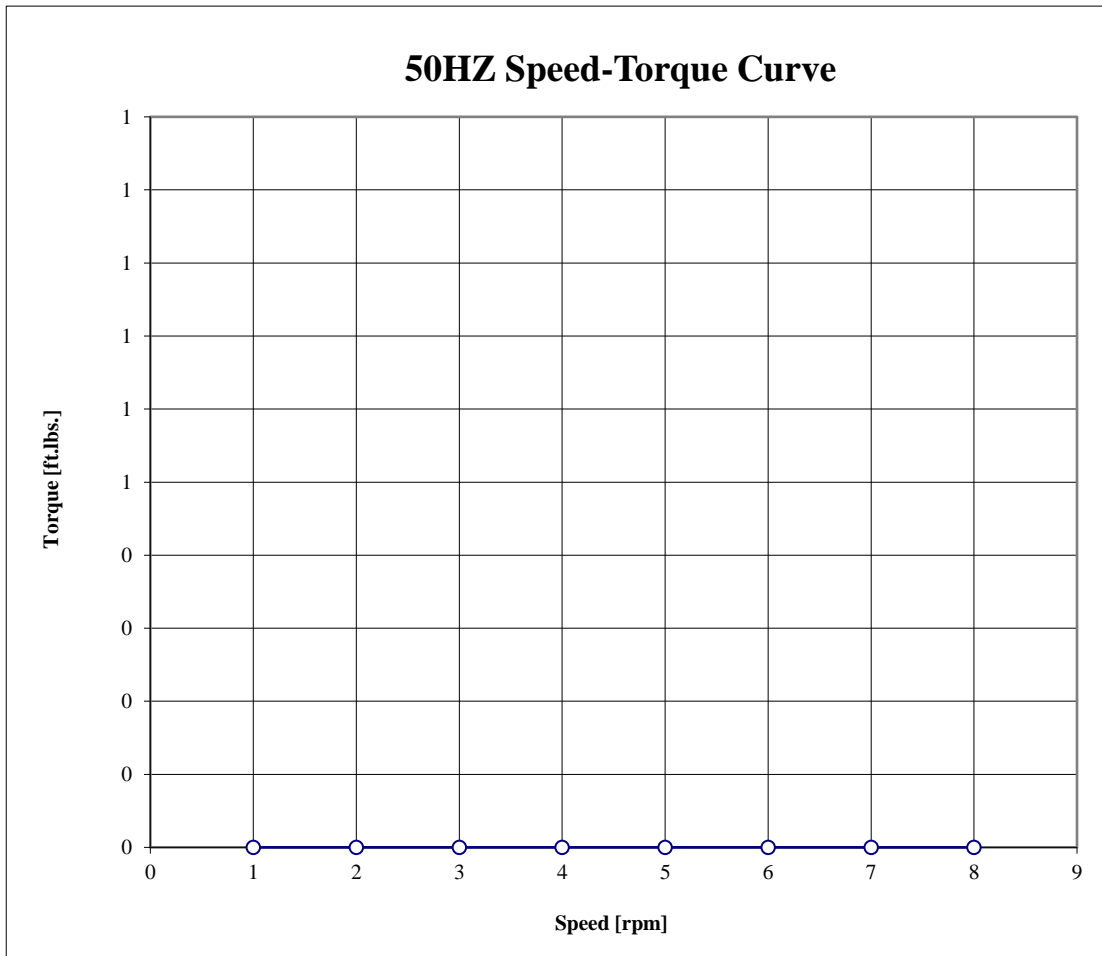
\*Curve base on calculated values

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

**Motor: BC2N002-5D**

	<b>Frame:</b>	145TD	2 HP	400 V	
	<b>Pole no.:</b>	2	- ft.lbs.	50 Hz	- rpm

<b>Speed</b>	0	600	1200	1800	2400	2910	-	3000
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	-	1
<b>Mot. torque ratios</b>	3	2.6	1.9	1.8	1.8	3.3	1	0
<b>Motor torque / ft.lbs.</b>	-	-	-	-	-	-	-	-



\*Curve base on calculated values