

60HZ TECHNICAL DATA SHEET

CATALOG No: **BC4N015-4C**

ISSUED: 28-Apr-22

GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
15	11.00	4	1800	254TC	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
92.4	92.2	91.0	0.84	0.80	0.71

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		460 V	460 V	
210	240	17.80	121.00	1765

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
H	63092Z	63072Z	45 x 60 x 8	35 x 47 x 7	56

*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%20B34/WP-DF254.6TC.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
15	11.00	4	1500	254TC	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
90.2	91.5	92.0	0.86	0.84	0.79

LRT %	BDT %	Full Load Amps		Locked Rotor Amps		Full Load RPM
		400 V		400 V		
210	240	20.47		139.15		1450

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
H	63092Z	63072Z	45 x 60 x 8	35 x 47 x 7	56

*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

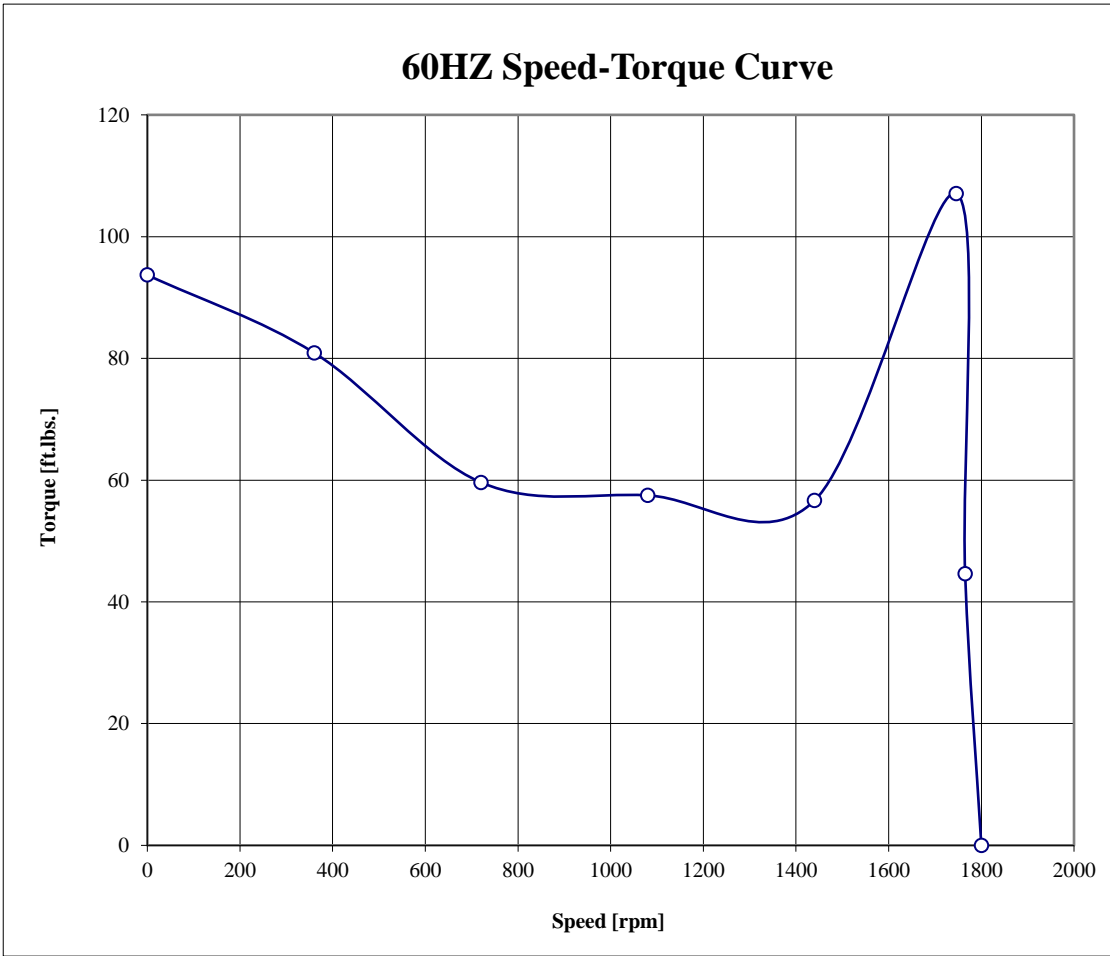
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%2012%20Lead%202X4%20NEMA.pdf>

Notes:

Motor: BC4N015-4C

	Frame:	254TC	15 HP	460 V	
	Pole no.:	4	44.6 ft.lbs.	60 Hz	1765 rpm

Speed	0	360	720	1080	1440	1746	1765	1800
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.981	1
Mot. torque ratios	2.1	1.8	1.3	1.3	1.3	2.4	1	0
Motor torque / ft.lbs.	94	81	60	57	57	107	45	0

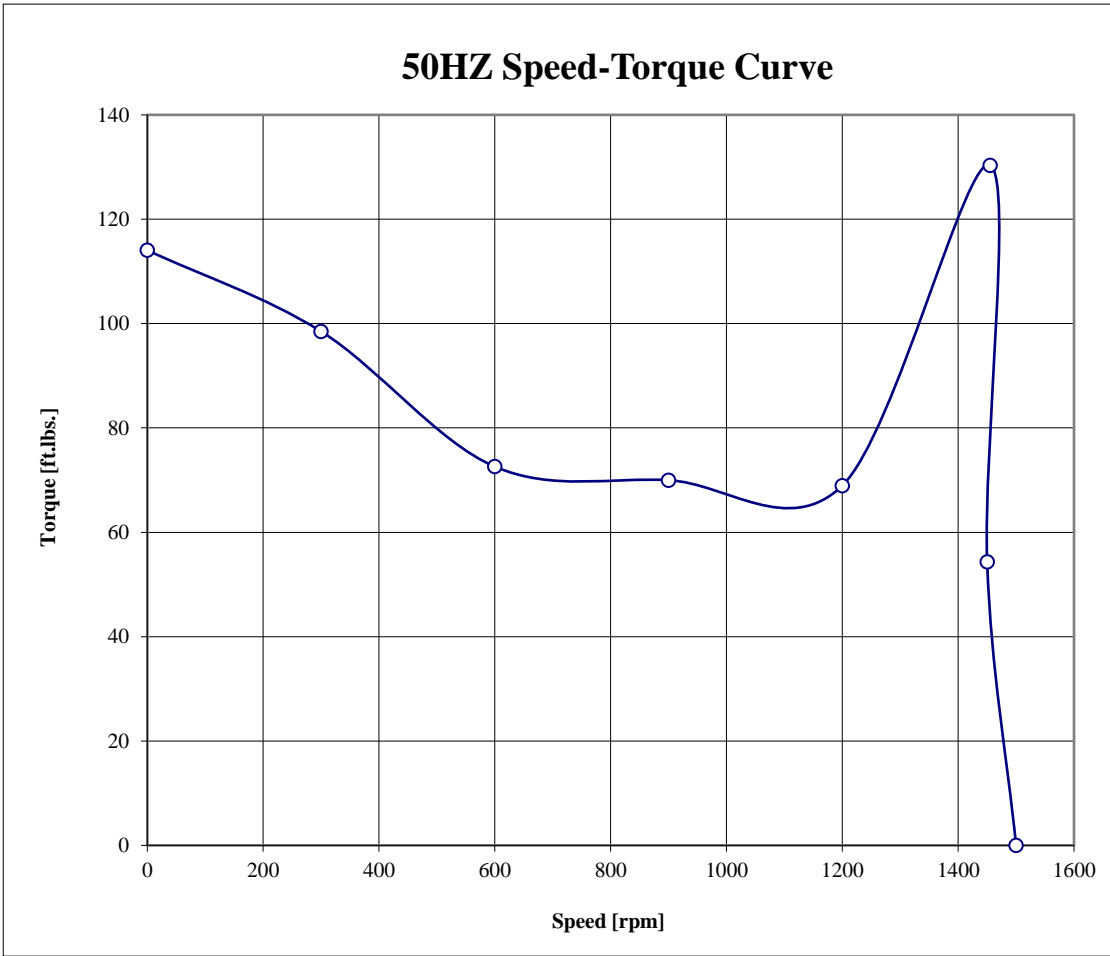


*Curve base on calculated values

Motor: BC4N015-4C

	Frame:	254TC	15 HP	400 V	
	Pole no.:	4	54.3 ft.lbs.	50 Hz	1450 rpm

Speed	0	300	600	900	1200	1455	1450	1500
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.967	1
Mot. torque ratios	2.1	1.8	1.3	1.3	1.3	2.4	1	0
Motor torque / ft.lbs.	114	98	73	70	69	130	54	0



*Curve base on calculated values