

CATALOG No: **BC6N7.5-4C**

ISSUED: 28-Apr-22

GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
7.5	5.50	6	1200	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
91.0	90.0	91.4	0.73	0.81	0.71

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		460 V	460 V	
240	210	10.60	65.70	1170

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%202X4%20NEMA.pdf>

Notes:

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GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
7.5	5.50	6	1000	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
88.5	90.0	90.5	0.84	0.80	0.71

LRT %	BDT %	Full Load Amps		Locked Rotor Amps		Full Load RPM
		400 V		400 V		
240	210	12.19		75.56		960

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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<http://brookcromptonna.com/Drawings/W-NEMA/NEMA%20Cast%20Iron%20B34/WP-DF254.6TC.pdf>

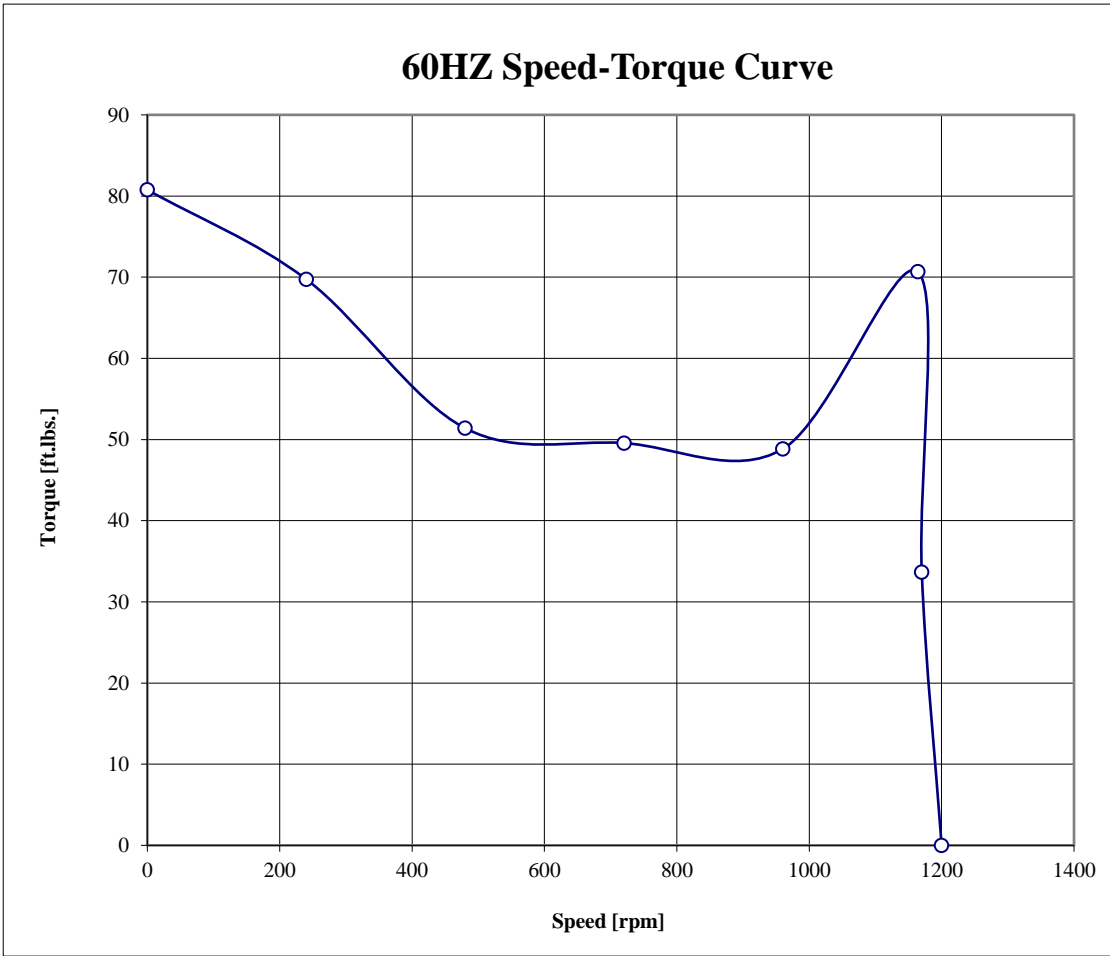
Click Link Below For Connection Diagram

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

Notes:

Motor: BC6N7.5-4C				
Frame:	254TC	7.5 HP	460 V	
Pole no.:	6	33.7 ft.lbs.	60 Hz	1170 rpm

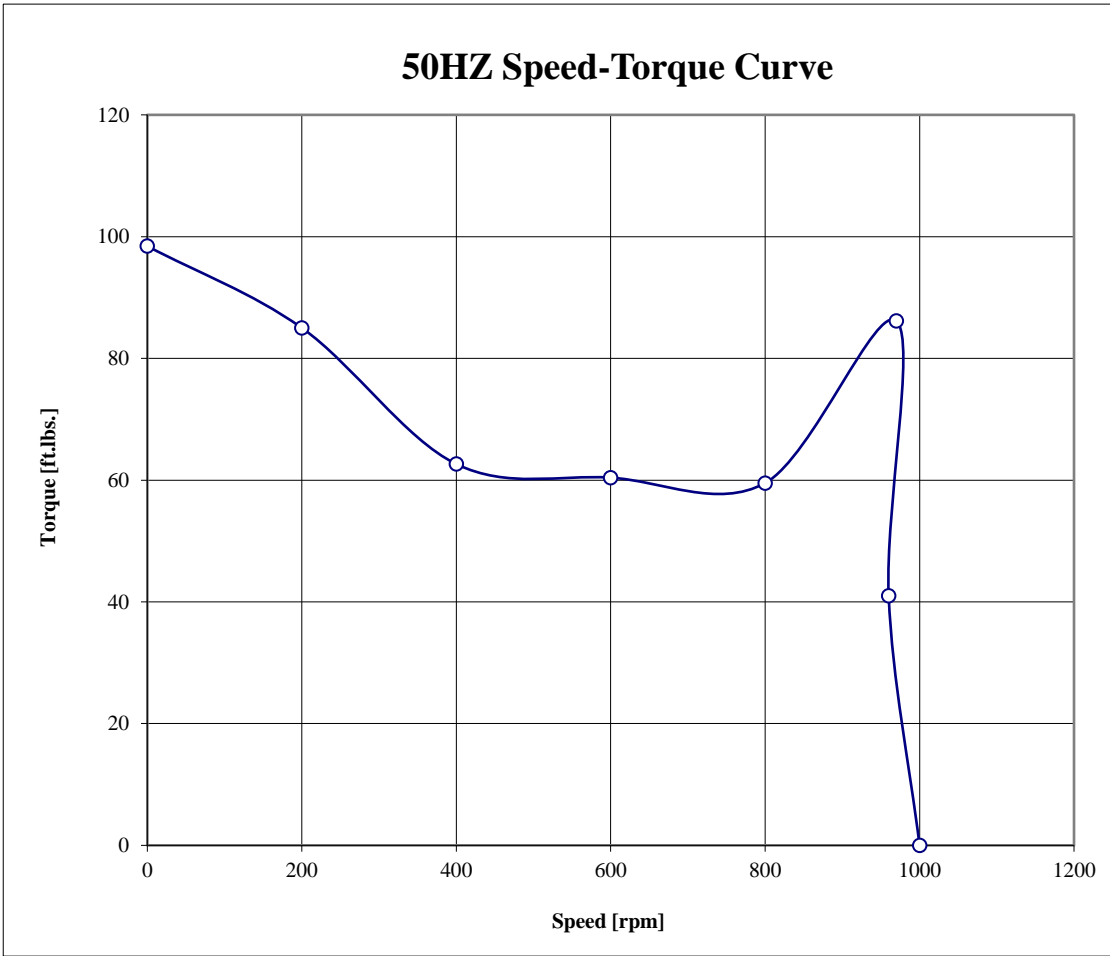
Speed	0	240	480	720	960	1164	1170	1200
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.975	1
Mot. torque ratios	2.4	2.1	1.5	1.5	1.5	2.1	1	0
Motor torque / ft.lbs.	81	70	51	50	49	71	34	0



*Curve base on calculated values

Motor: BC6N7.5-4C				
Frame:	254TC	7.5 HP	400 V	
Pole no.:	6	41.0 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	2.4	2.1	1.5	1.5	1.5	2.1	1	0
Motor torque / ft.lbs.	98	85	63	60	60	86	41	0



*Curve base on calculated values