

CATALOG No: **BC6N7.5-5D**

ISSUED: 28-Apr-22

**GENERAL INFORMATION**

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
7.5	5.50	6	1200	254TD	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
91.0	90.0	91.4	0.73	0.81	0.71

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		575 V	575 V	
240	210	8.50	52.70	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://brookcrompton.com/Drawings/W-NEMA/NEMA%20Cast%20Iron%20B35/WP-DF254.6TD.pdf>

**Click Link Below For Connection Diagram**

<http://www.brookcrompton.com/Connections/Connection%20Diagram%206%20Lead%20575%20NEMA.pdf>

Notes:

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7.5	5.50	6	-	254TD	-	50	3	IP55

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
88.5	90.0	90.5	0.84	0.80	0.71

LRT %	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		-	-	
240	210	-	-	-

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

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-	-	-	

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<http://brookcromptonna.com/Drawings/W-NEMA/NEMA%20Cast%20Iron%20B35/WP-DF254.6TD.pdf>

**Click Link Below For Connection Diagram**

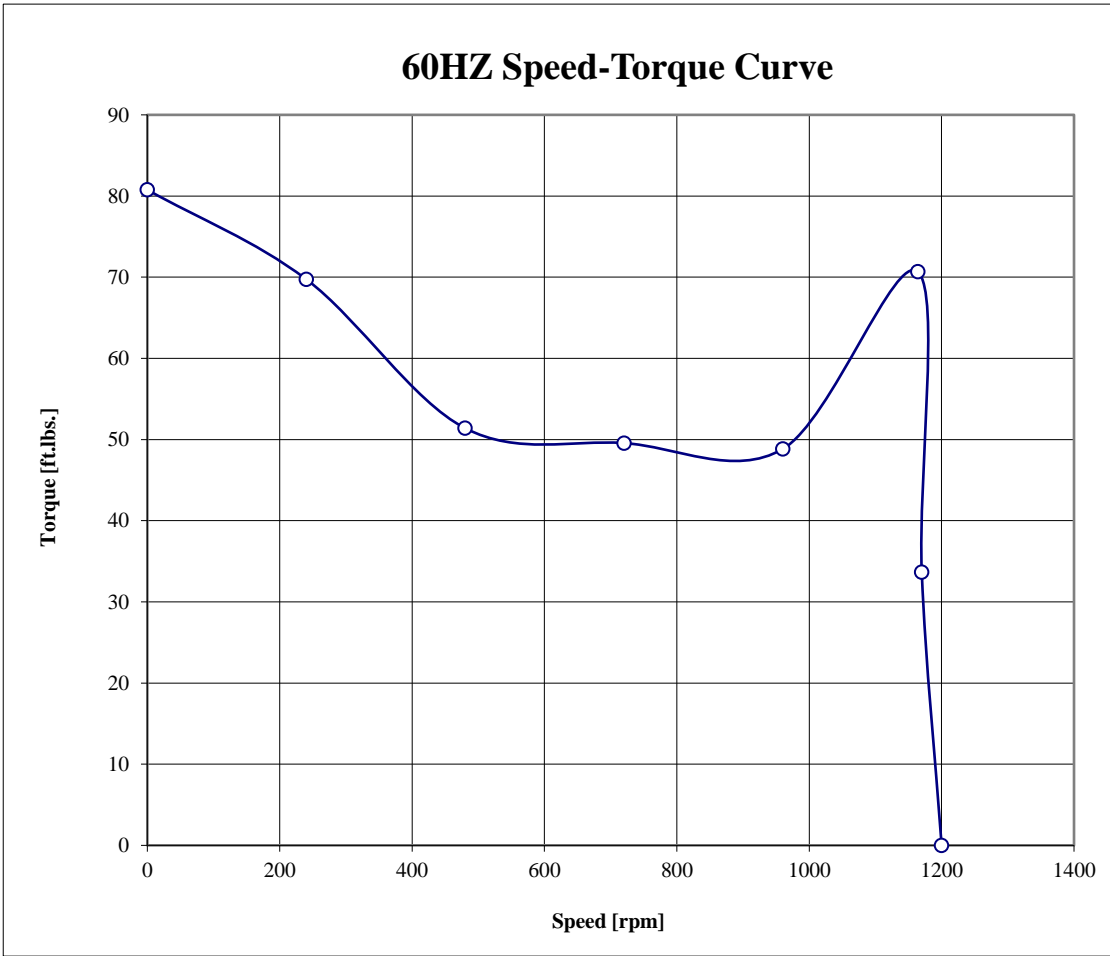
<http://www.brookcromptonna.com/Connections/Connection%20Diagram%206%20Lead%20575%20NEMA.pdf>

Notes:

**Motor: BC6N7.5-5D**

	<b>Frame:</b>	254TD	7.5 HP	575 V	
	<b>Pole no.:</b>	6	33.7 ft.lbs.	60 Hz	1170 rpm

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



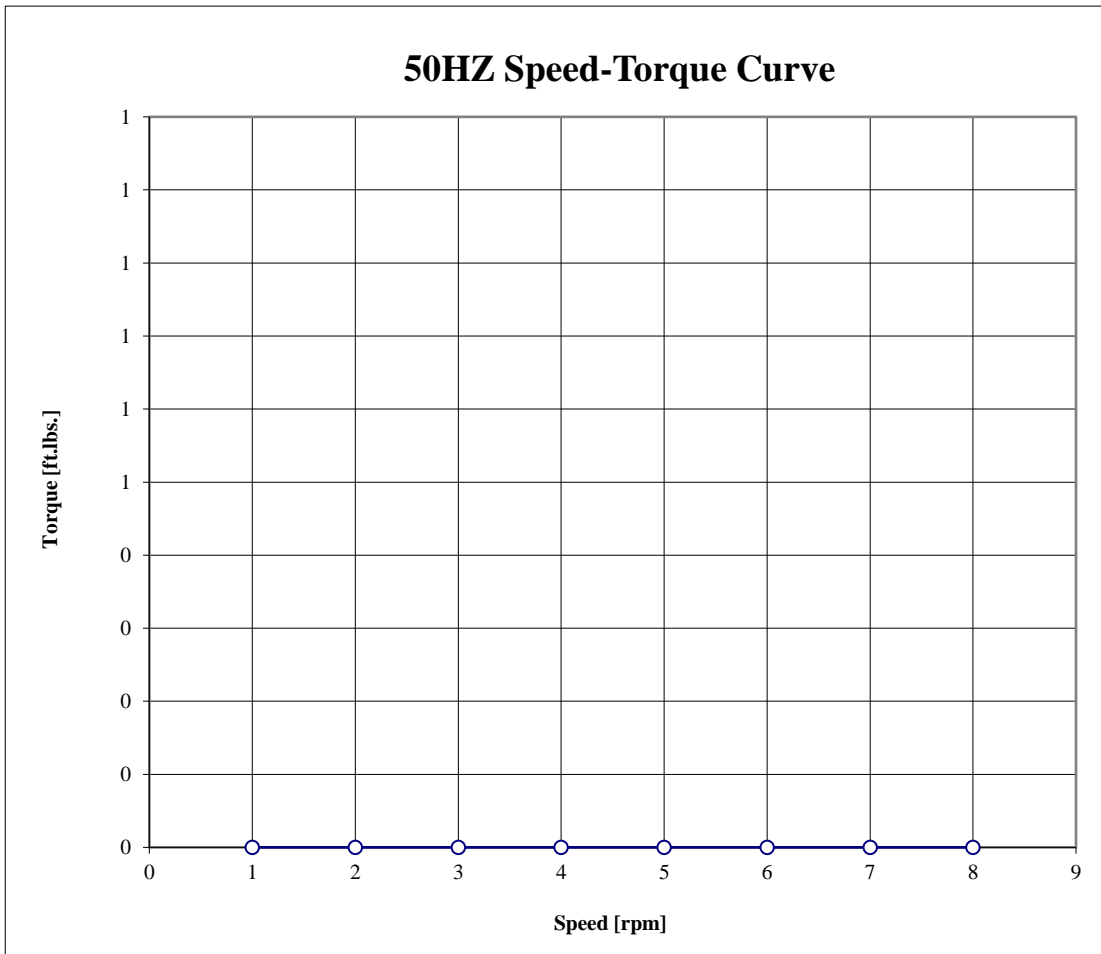
\*Curve base on calculated values

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

**Motor: BC6N7.5-5D**

	<b>Frame:</b>	254TD	7.5 HP	400 V	
	<b>Pole no.:</b>	6	- ft.lbs.	50 Hz	- rpm

<b>Speed</b>	0	200	400	600	800	970	-	1000
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	-	1
<b>Mot. torque ratios</b>	2.4	2.1	1.5	1.5	1.5	2.1	1	0
<b>Motor torque / ft.lbs.</b>	-	-	-	-	-	-	-	-



\*Curve base on calculated values