

CATALOG No: **BC6N015-4D**

ISSUED: 28-Apr-22

GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
15	11.00	6	1200	284TD	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
91.7	92.6	91.8	0.80	0.86	0.78

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		460 V	460 V	
350	250	19.30	135.10	1175

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
J	63102Z	63082Z	50 x 65 x 8	40 x 52 x 7	58

*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-DF284.6TD.pdf>

Click Link Below For Connection Diagram

<http://www.brookcrompton.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	6	1000	284TD	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
89.5	90.5	91.5	0.85	0.84	0.77

LRT %	BDT %	Full Load Amps		Locked Rotor Amps		Full Load RPM
		400 V		400 V		
350	250	22.20		155.37		965

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
J	63102Z	63082Z	50 x 65 x 8	40 x 52 x 7	58

*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

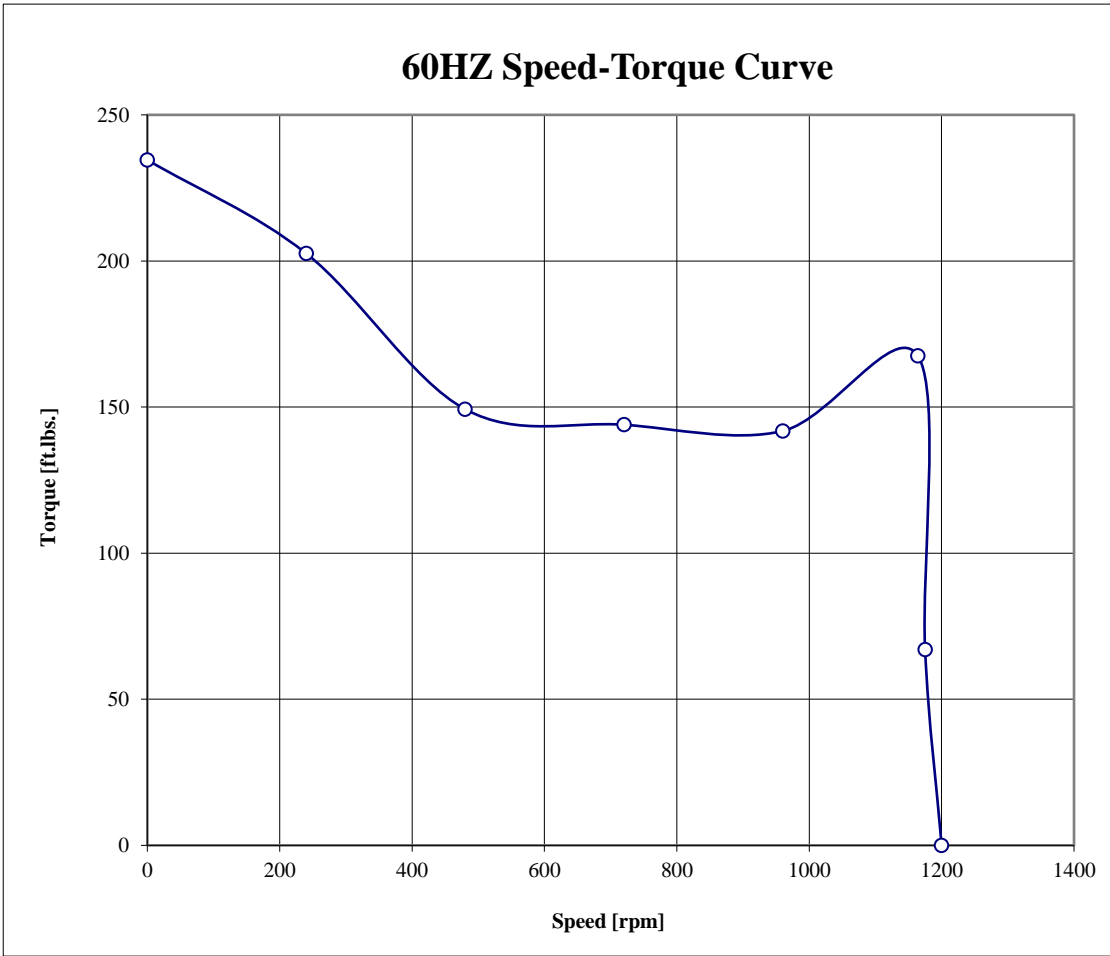
<http://www.brookcrompton.com/Connections/Connection%20Diagram%2012%20Lead%202X4%20NEMA.pdf>

Notes:

Motor: BC6N015-4D

	Frame:	284TD	15 HP	460 V	
	Pole no.:	6	67.0 ft.lbs.	60 Hz	1175 rpm

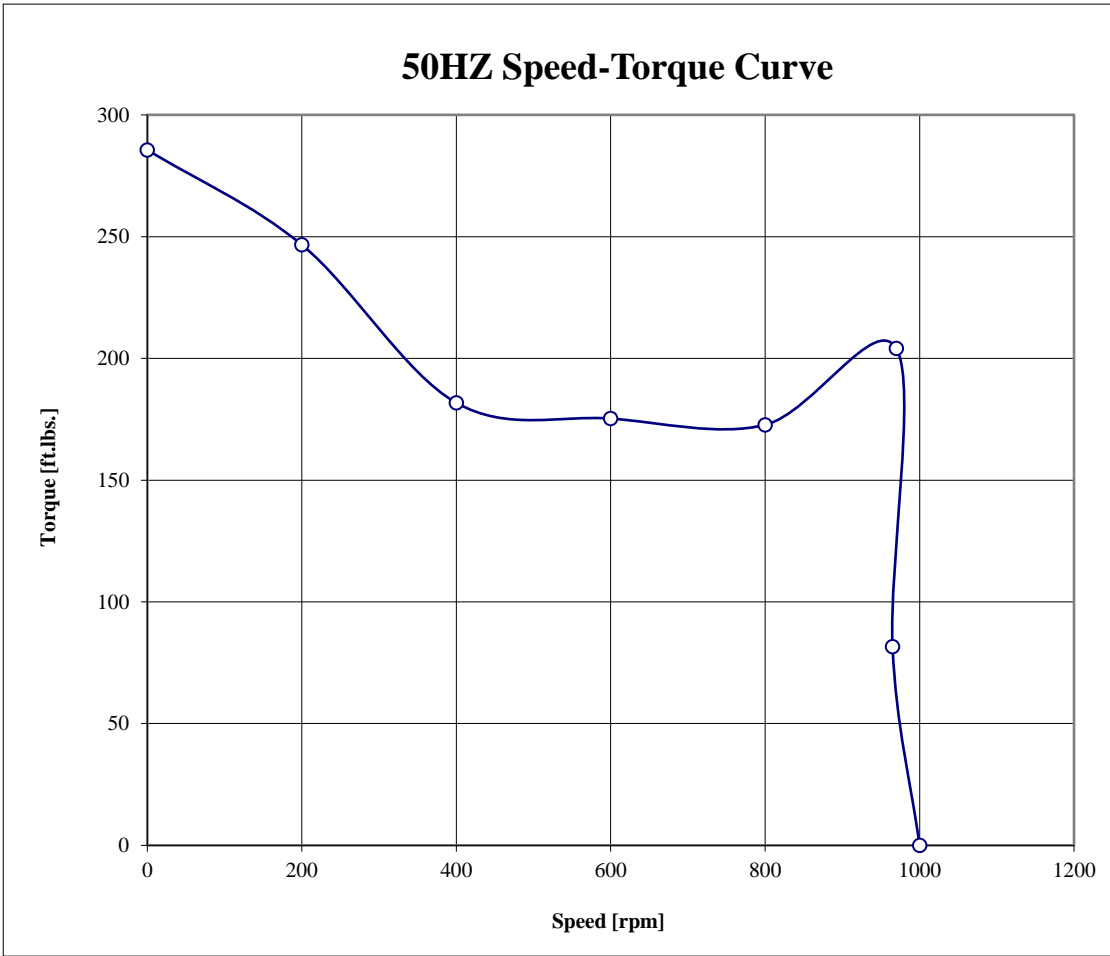
Speed	0	240	480	720	960	1164	1175	1200
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.979	1
Mot. torque ratios	3.5	3.0	2.2	2.1	2.1	2.5	1	0
Motor torque / ft.lbs.	235	203	149	144	142	168	67	0



*Curve base on calculated values

Motor: BC6N015-4D				
Frame:	284TD	15 HP	400 V	
Pole no.:	6	81.6 ft.lbs.	50 Hz	965 rpm

Speed	0	200	400	600	800	970	965	1000
Speed ratios	0	0.2	0.4	0.6	0.8	0.97	0.965	1
Mot. torque ratios	3.5	3.0	2.2	2.1	2.1	2.5	1	0
Motor torque / ft.lbs.	286	247	182	175	173	204	82	0



*Curve base on calculated values