

CATALOG No: **BC6N150-9C**

ISSUED: 28-Apr-22

**GENERAL INFORMATION**

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
150	110.00	6	1200	447TC	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
95.8	95.6	94.9	0.87	0.88	0.81

LRT%	BDT %	Full Load Amps	Locked Rotor Amps	Full Load RPM
		460 V	460 V	
210	210	170.00	1275.00	1180

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
H	6319.00	6319.00	90 x 120 x 12	90 x 120 x 12	-

\*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%20B34/WP-DF447TC.pdf>

**Click Link Below For Connection Diagram**

[http://www.brookcrompton.com/Connections/Connection%20Diagram%206%20Lead\\_460V%20NEMA.pdf](http://www.brookcrompton.com/Connections/Connection%20Diagram%206%20Lead_460V%20NEMA.pdf)

Notes:



## 50HZ TECHNICAL DATA SHEET

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ISSUED: 28-Apr-22

### GENERAL INFORMATION

HP	KW	Pole	RPM	Frame	Voltage	Hz	Phase	IP Rating
150	110.00	6	1000	447TC	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
-	-	-	-	-	-

LRT %	BDT %	Full Load Amps		Locked Rotor Amps		Full Load RPM
		400 V		400 V		
210	210	-	-	-	-	-

NEMA KVA Code	Bearing Size		Oil Seal		Sound Level
	Drive End	Non-Drive End	Drive End	Non-Drive End	dB(A)
H	6319.00	6319.00	90 x 120 x 12	90 x 120 x 12	-

\*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-DF447TC.pdf>

### Click Link Below For Connection Diagram

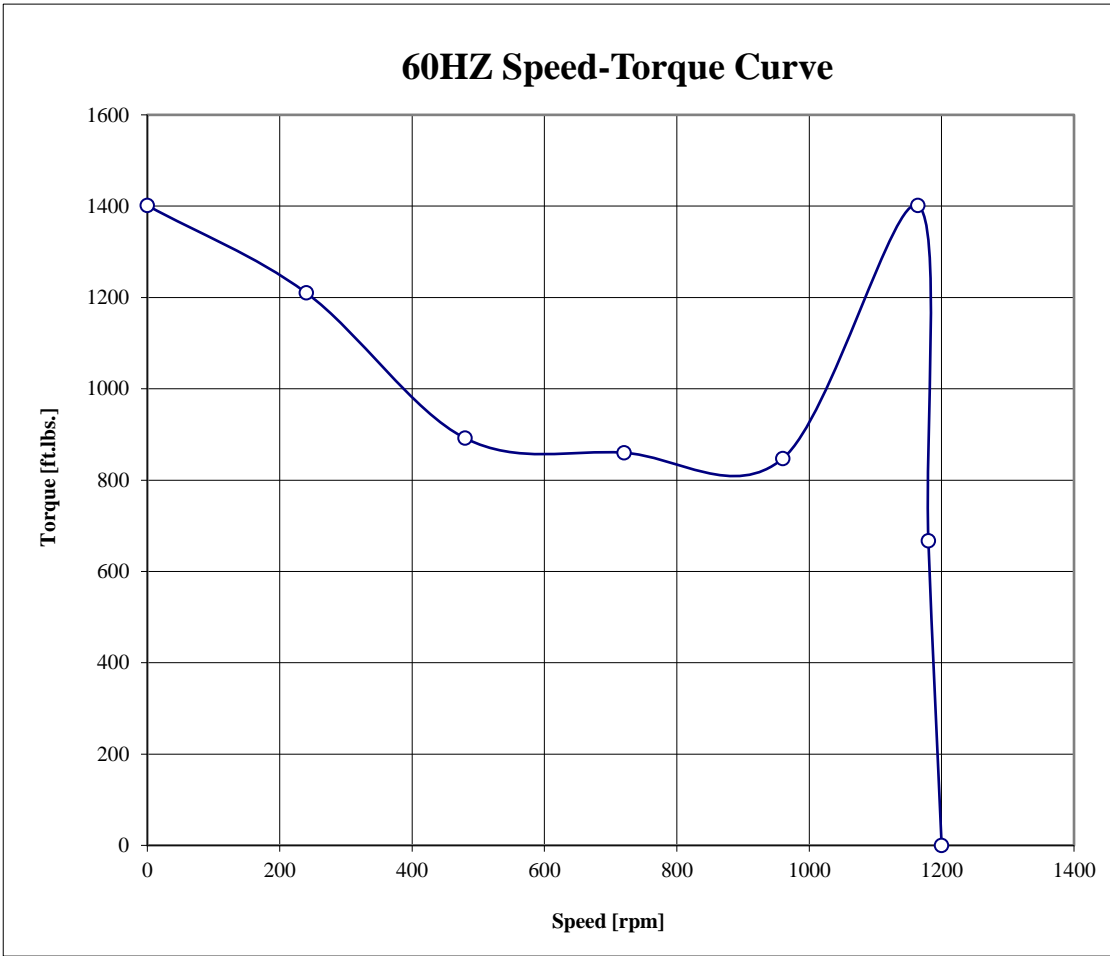
[http://www.brookcromptonna.com/Connections/Connection%20Diagram%206%20Lead\\_460V%20NEMA.pdf](http://www.brookcromptonna.com/Connections/Connection%20Diagram%206%20Lead_460V%20NEMA.pdf)

Notes:

**Motor: BC6N150-9C**

	<b>Frame:</b>	447TC	150 HP	460 V	
	<b>Pole no.:</b>	6	667.4 ft.lbs.	60 Hz	1180 rpm

<b>Speed</b>	0	240	480	720	960	1164	1180	1200
<b>Speed ratios</b>	0	0.2	0.4	0.6	0.8	0.97	0.983	1
<b>Mot. torque ratios</b>	2.1	1.8	1.3	1.3	1.3	2.1	1	0
<b>Motor torque / ft.lbs.</b>	1401	1210	892	860	847	1401	667	0



\*Curve base on calculated values

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

				<b>Motor: BC6N150-9C</b>	
	<b>Frame:</b>	447TC	150 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>	2.1	1.8	1.3	1.3	1.3	2.1	1	0
<b>Motor torque / ft.lbs.</b>	-	-	-	-	-	-	-	-



\*Curve base on calculated values