

# TECO Westinghouse

ISSUED <b>8/28/2014</b>	<b>PERFORMANCE DATA</b> <b>3-PHASE INDUCTION MOTOR</b>	ENCLOSURE <b>TEFC</b>
TYPE <b>AEHH8BCF</b>		CATALOG# <b>HB1/54C</b>

### NAMEPLATE INFORMATION

OUTPUT HP	OUTPUT KW	POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	NEMA DESIGN	TIME RATING	SERVICE FACTOR
<b>1.5</b>	<b>1.1</b>	<b>4</b>	<b>145TC</b>	<b>460</b>	<b>60</b>	<b>50°C</b>	<b>F</b>	<b>B</b>	<b>CONT.</b>	<b>1.15</b>

### VARIABLE FREQUENCY DRIVE SERVICE

VARIABLE TORQUE				OHMS/PHASE EQUIVALENT WYE CIRCUIT (AT RATED OPERATING TEMPERATURE 25°C)				
HZ	HP	RPM	TORQUE (lb-ft)	R1	R2	X1	X2	X <sub>m</sub>
<b>3~60</b>	<b>0.0002~1.5</b>	<b>90~1800</b>	<b>0.011~4.552</b>	<b>5.763</b>	<b>5.3809</b>	<b>13.911</b>	<b>8.6689</b>	<b>209.64</b>

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
<b>6~60</b>	<b>.15~1.5</b>	<b>180~1800</b>	<b>4.552</b>	<b>60~120</b>	<b>1.5</b>	<b>1800~3600</b>	<b>4.552~2.276</b>

### TYPICAL PERFORMANCE

FULL LOAD RPM	EFFICIENCY				POWER FACTOR			SOUND PRESSURE LEVEL @ 3 FT Db(A)
	FULL LOAD		3/4 LOAD	1/2 LOAD	FULL LOAD	3/4 LOAD	1/2 LOAD	
	MIN.%	NOM.%	%	%	%	%	%	
<b>1730</b>	<b>84</b>	<b>86.5</b>	<b>86.5</b>	<b>85.5</b>	<b>78</b>	<b>70</b>	<b>57</b>	<b>50</b>

CURRENTS						NEMA KVA CODE LETTER	SAFE STALL TIME IN SECONDS	
NO LOAD		FULL LOAD		LOCKED ROTOR			COLD	HOT
AT 460 VOLT		AT 460 VOLT		AT 460 VOLT				
<b>1.11</b>		<b>2.08</b>		<b>20</b>		<b>M</b>	<b>57</b>	<b>40</b>

TORQUE				INERTIA			ACCEL TIME (DOL)		ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR %FLT	PULL UP %FLT	BREAK DOWN %FLT	ROTOR WR <sup>2</sup> (lb-ft <sup>2</sup> )	NEMA LOAD WK <sup>2</sup> (lb-ft <sup>2</sup> )	MAX ALLOWABLE WK <sup>2</sup> (lb-ft <sup>2</sup> )	NEMA LOAD WK <sup>2</sup> Sec	MAX ALLOWABLE WK <sup>2</sup> Sec	COLD	HOT
<b>4.55</b>	<b>300</b>	<b>260</b>	<b>360</b>	<b>0.093</b>	<b>8.6</b>	<b>47</b>	<b>3.62</b>	<b>19.59</b>	<b>2</b>	<b>1</b>

APPROVED:	<b>M. PRATER</b>	DRAWING NO.	<b>31057HB1/54C</b>	REVISION:	<b>1</b>
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