

# TECO Westinghouse

ISSUED <b>8/28/2014</b>	<b>PERFORMANCE DATA</b> <b>3-PHASE INDUCTION MOTOR</b>	ENCLOSURE <b>TEFC</b>
TYPE <b>AEHH8B</b>		CATALOG# <b>HB1006</b>

### NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	NEMA DESIGN	TIME RATING	SERVICE FACTOR
HP	KW									
<b>100</b>	<b>74.6</b>	<b>6</b>	<b>444T</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>0.0125~100</b>	<b>60~1200</b>	<b>1.09~444</b>	<b>0.0778</b>	<b>0.0497</b>	<b>0.5102</b>	<b>0.978</b>	<b>16.2</b>

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
<b>6~60</b>	<b>10~100</b>	<b>118~1200</b>	<b>444</b>	<b>60~90</b>	<b>100</b>	<b>1200-1800</b>	<b>444~296</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>1182</b>	<b>94.1</b>	<b>95</b>	<b>94.5</b>	<b>93.6</b>	<b>82.5</b>	<b>80</b>	<b>73</b>	<b>77</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>48</b>		<b>119.00</b>		<b>725</b>		<b>G</b>	<b>21</b>	<b>15</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>444.00</b>	<b>140</b>	<b>110</b>	<b>230</b>	<b>56</b>	<b>1181</b>	<b>2953</b>	<b>6.00</b>	<b>14.58</b>	<b>2</b>	<b>1</b>

APPROVED:	<b>M. PRATER</b>	DRAWING NO.	<b>31057HB1006</b>	REVISION:	<b>1</b>
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