

# 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>HB2508</b>

### NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	NEMA DESIGN	TIME RATING	SERVICE FACTOR
HP	KW									
<b>250</b>	<b>186.5</b>	<b>8</b>	<b>5009B</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>0.0313-250</b>	<b>45-900</b>	<b>3.685-1474</b>	<b>0.0329</b>	<b>0.0274</b>	<b>0.251</b>	<b>0.596</b>	<b>2.491</b>

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
<b>6-60</b>	<b>25-250</b>	<b>90-900</b>	<b>1474</b>	<b>60-90</b>	<b>250</b>	<b>900-1350</b>	<b>1474-983</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>890</b>	<b>93.6</b>	<b>94.5</b>	<b>94.4</b>	<b>94</b>	<b>81</b>	<b>78</b>	<b>69</b>	<b>79</b>

CURRENTS			NEMA KVA CODE LETTER	SAFE STALL TIME IN SECONDS	
NO LOAD		FULL LOAD		LOCKED ROTOR	
AT 460 VOLT		AT 460 VOLT		AT 460 VOLT	
<b>106.6</b>		<b>306</b>	<b>1825</b>	<b>G</b>	<b>15</b> <b>12</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>1474</b>	<b>110</b>	<b>88</b>	<b>200</b>	<b>235</b>	<b>5540</b>	<b>11080</b>	<b>7.38</b>	<b>14.47</b>	<b>2</b>	<b>1</b>

APPROVED:	<b>M. PRATER</b>	DRAWING NO.	<b>3A057HB2508</b>	REVISION:	<b>0</b>
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