

# TECO Westinghouse

ISSUED <b>12/2/2014</b>	<b>PERFORMANCE DATA</b> <b>3-PHASE INDUCTION MOTOR</b>	ENCLOSURE <b>TEFC</b>
TYPE <b>AEHH8N</b>		CATALOG# <b>EP2004S</b>

### NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	NEMA DESIGN	TIME RATING	SERVICE FACTOR
HP	KW									
<b>200</b>	<b>149.2</b>	<b>4</b>	<b>447TS</b>	<b>460</b>	<b>60</b>	<b>40°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>0.025~200</b>	<b>90~1800</b>	<b>1.458~588</b>	<b>0.0248</b>	<b>0.0232</b>	<b>0.219</b>	<b>0.442</b>	<b>10.3</b>

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
<b>6~60</b>	<b>20~200</b>	<b>180~1800</b>	<b>588</b>	<b>60~90</b>	<b>200</b>	<b>1800~2700</b>	<b>588~392</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>1786</b>	<b>95.4</b>	<b>96.2</b>	<b>95.8</b>	<b>95</b>	<b>87</b>	<b>83.5</b>	<b>78.5</b>	<b>81</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>46.4</b>		<b>224.00</b>		<b>1450</b>		<b>G</b>	<b>19</b>	<b>13</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>588.00</b>	<b>120</b>	<b>95</b>	<b>210</b>	<b>73.5</b>	<b>831</b>	<b>1662</b>	<b>5.52</b>	<b>10.59</b>	<b>2</b>	<b>1</b>

APPROVED:	<b>M. PRATER</b>	DRAWING NO.	<b>31057EP2004S</b>	REVISION:	<b>1</b>
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