

# TECO Westinghouse

ISSUED <b>8/15/2014</b>	<b>PERFORMANCE DATA</b> <b>3-PHASE INDUCTION MOTOR</b>	ENCLOSURE <b>TEFC</b>
TYPE <b>AEHH8N</b>		CATALOG# <b>EP3002</b>

### NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	NEMA DESIGN	TIME RATING	SERVICE FACTOR
HP	KW									
<b>300</b>	<b>223.8</b>	<b>2</b>	<b>449TS</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>0.0375~300</b>	<b>180~3600</b>	<b>1.093~439</b>	<b>0.0126</b>	<b>0.011</b>	<b>0.1338</b>	<b>0.23</b>	<b>9.3</b>

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
<b>6~60</b>	<b>30~300</b>	<b>360~3600</b>	<b>439</b>	<b>60</b>	<b>300</b>	<b>3600</b>	<b>439</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>3580</b>	<b>95</b>	<b>95.8</b>	<b>95.4</b>	<b>94.5</b>	<b>90.2</b>	<b>86.5</b>	<b>82.5</b>	<b>83</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>50.5</b>		<b>325.00</b>	<b>2220</b>	<b>G</b>	<b>22</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>440.00</b>	<b>102</b>	<b>81</b>	<b>210</b>	<b>52.5</b>	<b>246</b>	<b>246</b>	<b>5.07</b>	<b>5.07</b>	<b>2</b>	<b>1</b>

APPROVED:	<b>M. PRATER</b>	DRAWING NO.	<b>31057EP3002</b>	REVISION:	<b>1</b>
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