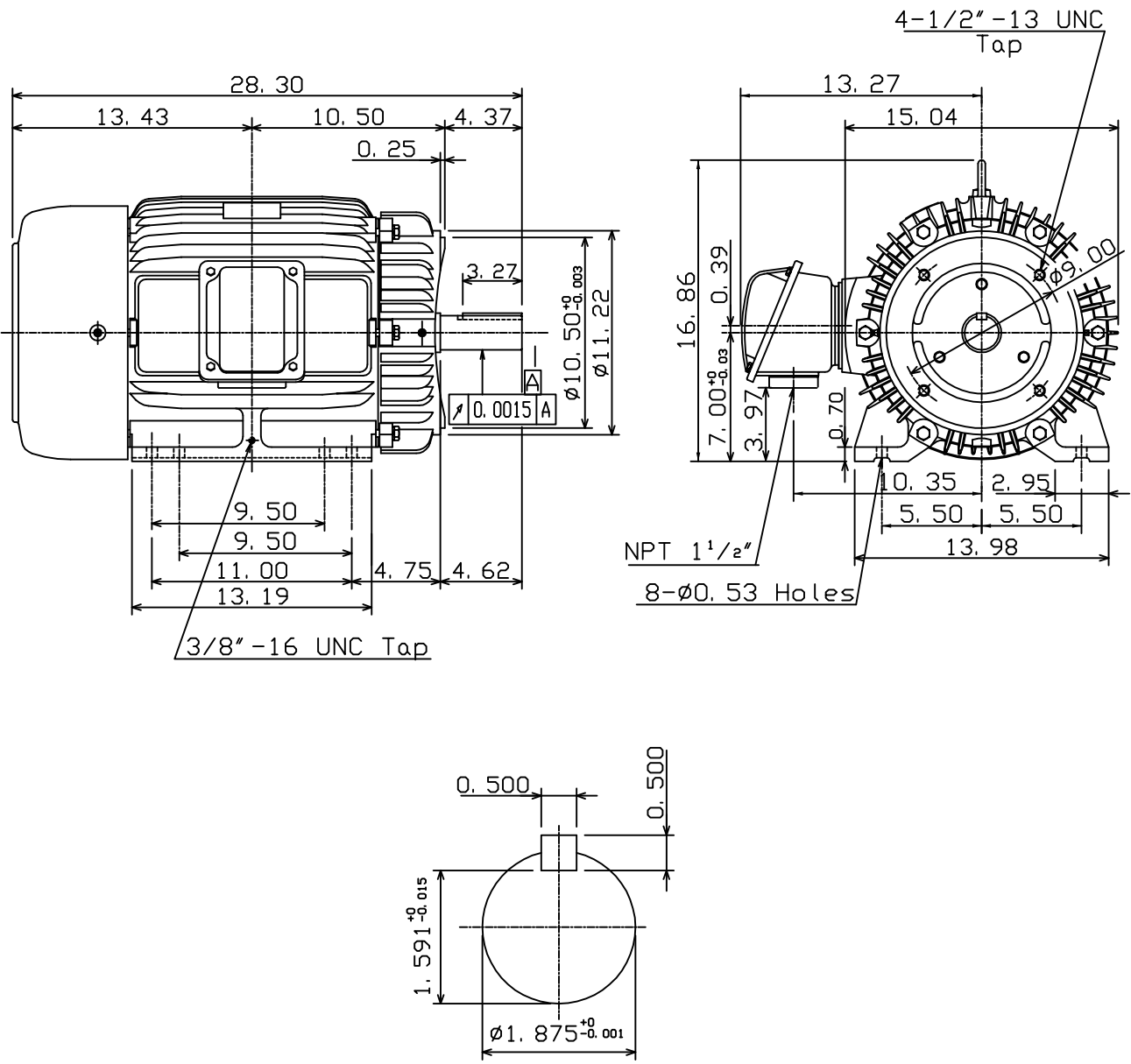


DATE January 20, 2009	OUTLINE DIMENSIONS 3-PHASE INDUCTION MOTOR	MOTOR TYPE: AEHH8B-CF
CAT. #: HB0304C		FRAME NO. 286TC

Pole	HP	kW	Hz	VOLT	Syn. Speed r/min(rpm)
4	30	22.3	60	460	1800

Ins	Rating	Dimension in	Approx Weight	Bearings
F	CONT.	inches	490 LBS	DE: 6311ZC3 NDE: 6310ZC3

Totally Enclosed Fan-Cooled Type. Squirrel-cage Rotor.



- Note:
1. Motor Vibration: 15 $\mu$ .
  2. Inpro/Seal in Both End Brackets

01.03.09		
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DWN. ???????	10-01-04	TEC   Westinghouse	DWG NO.
CHKD. ???????	01-02-09		31049M628422
APPD. ???????	01-02-09		

# 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>HB0304C</b>

### NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	NEMA DESIGN	TIME RATING	SERVICE FACTOR
HP	KW									
<b>30</b>	<b>22.4</b>	<b>4</b>	<b>286TC</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>0.0038~30</b>	<b>90~1800</b>	<b>0.223~88.99</b>	<b>0.1043</b>	<b>0.205</b>	<b>0.6931</b>	<b>1.1081</b>	<b>32.734</b>

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
<b>6~60</b>	<b>3~30</b>	<b>180~1800</b>	<b>88.99</b>	<b>60~90</b>	<b>30</b>	<b>1800~2700</b>	<b>88.99~59.33</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>1770</b>	<b>92.4</b>	<b>93.6</b>	<b>93.6</b>	<b>93.6</b>	<b>87.5</b>	<b>85.5</b>	<b>79.5</b>	<b>70</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>8.75</b>	<b>34.30</b>	<b>218</b>	<b>G</b>	<b>25</b>	<b>18</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>88.99</b>	<b>200</b>	<b>160</b>	<b>235</b>	<b>5.274</b>	<b>144</b>	<b>328</b>	<b>4.80</b>	<b>10.72</b>	<b>2</b>	<b>1</b>

APPROVED:	<b>M. PRATER</b>	DRAWING NO.	<b>31057HB0304C</b>	REVISION:	<b>1</b>
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DATE:  
June 27, 2005

# CONNECTION DIAGRAM

CATALOG NO.:  
**HB0304C**



**SCHEMATIC - Δ CONNECTION**

## ACROSS THE LINE CONNECTION



**460 VOLT CONNECTION**