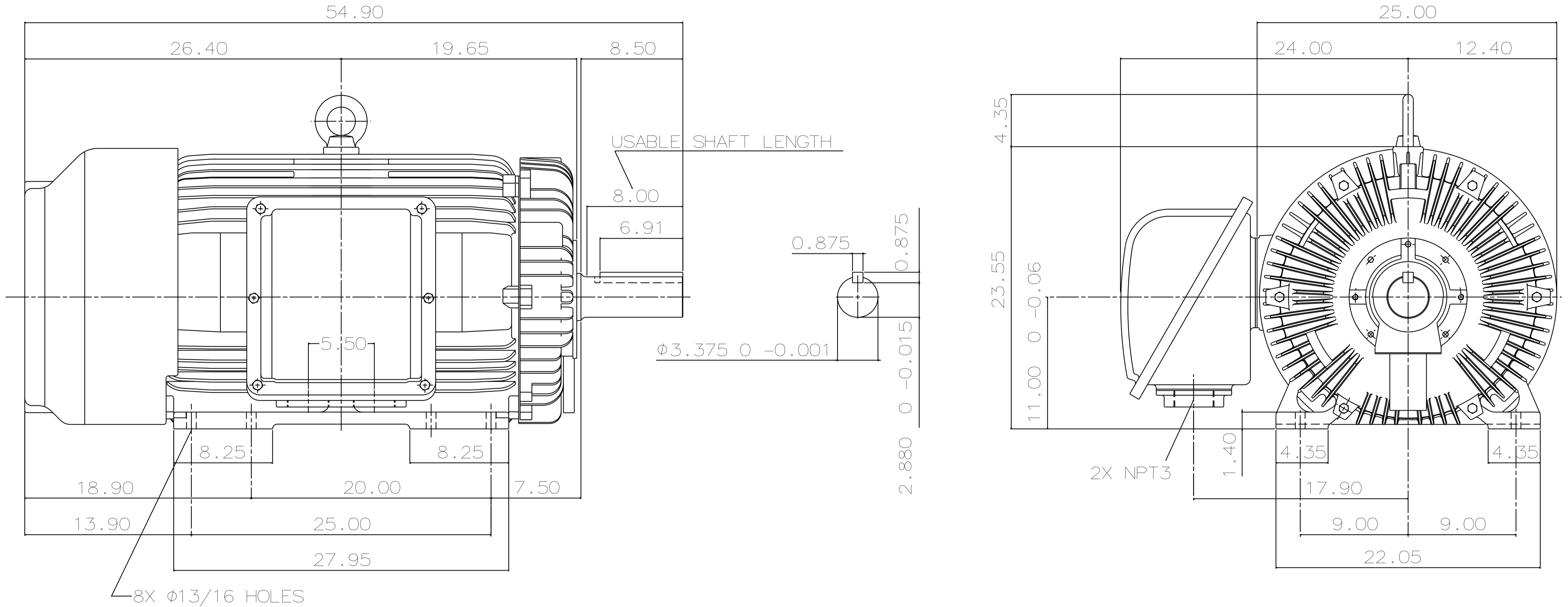


TYPE	OUTPUT		POLE	TIME RATING	VOLTAGE V	Hz	SYN. SPEED R.P.M
	HP.	kW.					
AEHH8B	300	223.8	4	CONT.	460	60	1800

TOTALLY ENCLOSED FAN-COOLED TYPE. SQUIRREL-CAGE ROTOR



NOTE:

1. DIMENSIONS IN INCH
2. FRAME NO. 449T
3. F CLASS INSULATION, S.F.1.15
4. FOR DIRECT FLEXIBLE COUPLING
5. ENCLOSURE: IP55
6. BEARING SIZE: DRIVE END: 6320C3  
NON-DRIVE END: 6316C3
7. APPROX. WEIGHT: 2880 LBS
8. INPRO SEAL ON BOTH ENDS.
9. NON-SPARKING FAN.
10. NOISE BELOW 83 DBA AT 1 METER AT NO LOAD.
11. VIBRATION VERTICAL/HORIZONTAL BELOW 0.08 IN/SEC  
AXIAL BELOW 0.06 IN/SEC.

TW-56BC

DATE	12-12-17	OUTLINE DIMENSIONS
CATALOG #	#HB3004	3-PHASE INDUCTION MOTOR

TECO Westinghouse

DWG NO. 3A040Y702  
REV: 02

DWN.	T.H.Pan	FEB •18 •2005
CHKD.	H.HUANG	FEB •18 •2005
APPD.	C.WANG	FEB •18 •2005

# 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>HB3004</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>224</b>	<b>4</b>	<b>449T</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>0.0375~300</b>	<b>90~1800</b>	<b>2.188~880</b>	<b>0.0148</b>	<b>0.0139</b>	<b>0.1483</b>	<b>0.3239</b>	<b>8.2</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>180~1800</b>	<b>880</b>	<b>60~90</b>	<b>300</b>	<b>1800~2700</b>	<b>880~586.66</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>1788</b>	<b>95.4</b>	<b>96.2</b>	<b>95.8</b>	<b>95</b>	<b>88</b>	<b>84.5</b>	<b>80</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>61.7</b>	<b>332.00</b>	<b>2200</b>	<b>G</b>	<b>16</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>881.00</b>	<b>100</b>	<b>85</b>	<b>210</b>	<b>107</b>	<b>1197</b>	<b>2394</b>	<b>5.54</b>	<b>10.63</b>	<b>2</b>	<b>1</b>

APPROVED:	<b>M. PRATER</b>	DRAWING NO.	<b>31057HB3004</b>	REVISION:	<b>1</b>
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DATE:  
June 27, 2005

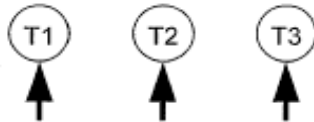
# CONNECTION DIAGRAM

CATALOG NO.:  
**HB3004**



**SCHEMATIC - Δ CONNECTION**

## ACROSS THE LINE CONNECTION



**460 VOLT CONNECTION**