

DATE
Sept. 25, 2006
Cat. #: EP1002C

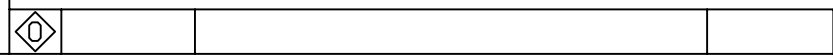
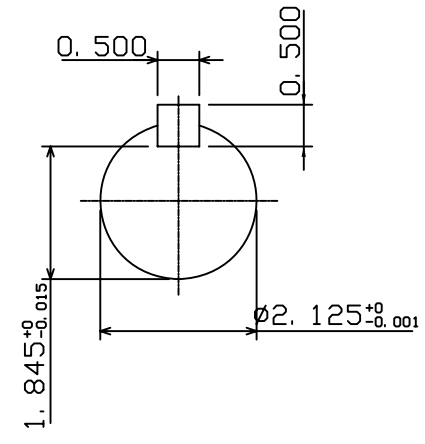
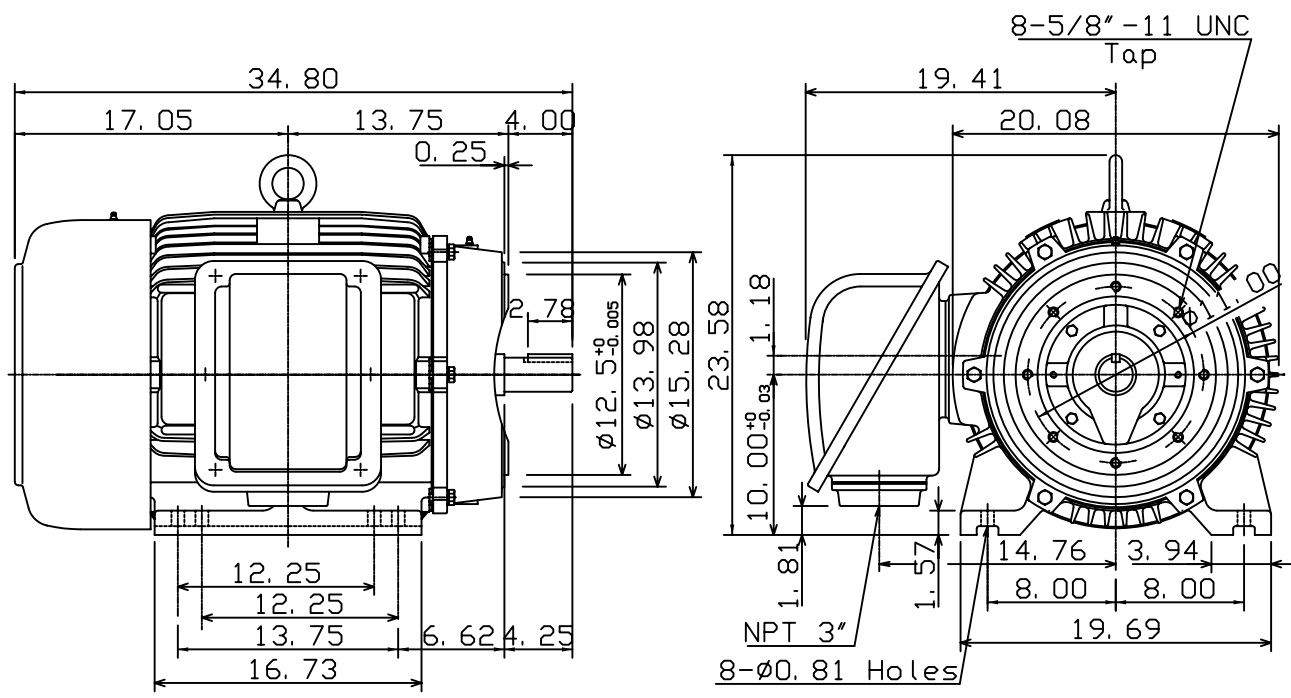
OUTLINE DIMENSIONS
3-PHASE INDUCTION MOTOR

MOTOR TYPE:
AEHH8N-CF
FRAME NO. 405TSC

Pole	HP	kW	Hz	VOLT	Syn. Speed r/min(rpm)
2	100	74.6	60	230/460	3600

Ins	Rating	Dimension in	Approx Weight	Bearings
F	CONT.	inches	1183 lbs	DE: 6313C3 NDE: 6313C3

Totally Enclosed Fan Cooled Type. Squirrel-cage Rotor.



DWN.	K. L. KUO	01-11-05
CHKD.	C. H. KAO	01-28-05
APPD.	M. C. TSAI	01-28-05



DWG NO.
31057H372200

TECO Westinghouse

ISSUED 8/15/2014	PERFORMANCE DATA 3-PHASE INDUCTION MOTOR	ENCLOSURE TEFC
TYPE AEHH8N		CATALOG# EP1002C

NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	NEMA DESIGN	TIME RATING	SERVICE FACTOR
HP	KW									
100	74.6	2	405TSC	230/460	60	40°C	F	B	CONT.	1.15

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 _m
3~60	0.0125~100	180~3600	0.365~147.5	0.0183	0.045	0.2342	0.2919	13.316

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
6~60	10~100	360~3600	147.5	60	100	3600	147.5

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.%						
3560	94.5	95.4	95.8	95.4	92	91.5	88.5	85

CURRENTS									NEMA KVA CODE LETTER	SAFE STALL TIME IN SECONDS	
NO LOAD			FULL LOAD			LOCKED ROTOR				COLD	HOT
AT 208 VOLT	AT 230 VOLT	AT 460 VOLT	AT 208 VOLT	AT 230 VOLT	AT 460 VOLT	AT 208 VOLT	AT 230 VOLT	AT 460 VOLT			
37.30	39.20	19.6	236.00	214.00	107.00	1311.3	1450.0	725	G	17	12

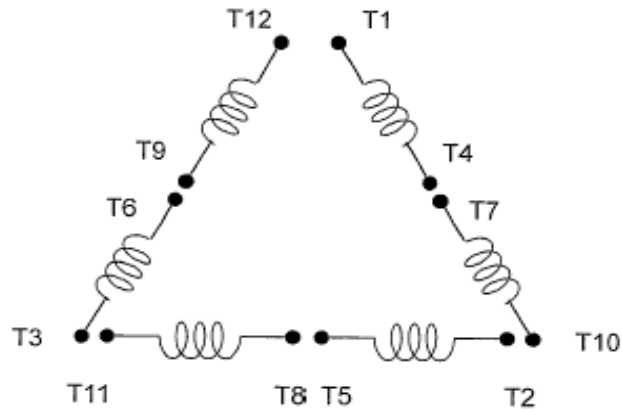
TORQUE				INERTIA			ACCEL TIME (DOL)		ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR %FLT	PULL UP %FLT	BREAK DOWN %FLT	ROTOR WR ² (lb-ft ²)	NEMA LOAD WK ² (lb-ft ²)	MAX ALLOWABLE WK ² (lb-ft ²)	NEMA LOAD WK ² Sec	MAX ALLOWABLE WK ² Sec	COLD	HOT
147.50	140	125	270	10.773	92	213	4.06	8.84	2	1

APPROVED:	M. PRATER	DRAWING NO.	31057EP1002C	REVISION:	1
-----------	------------------	-------------	---------------------	-----------	----------

DATE:
September 13, 2006

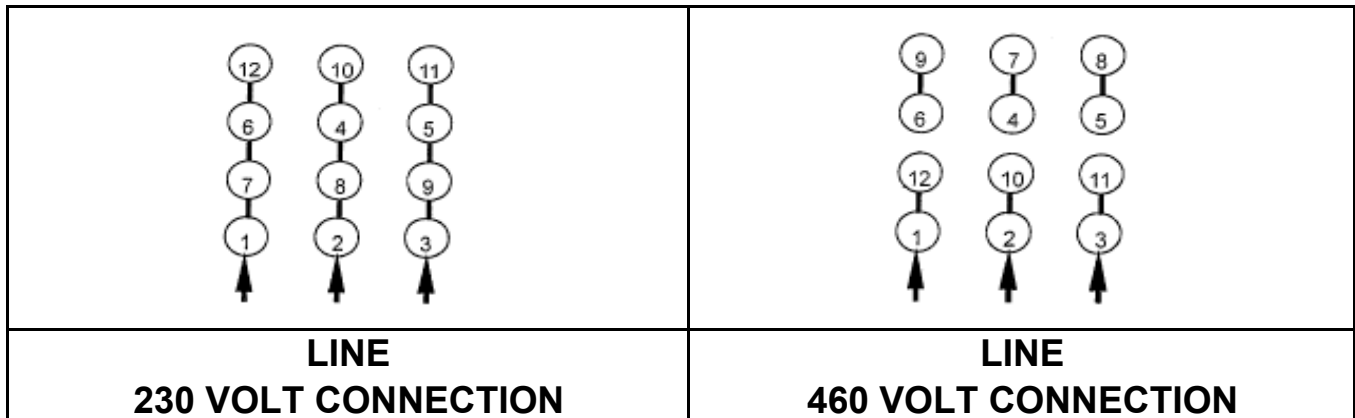
CONNECTION DIAGRAM

CATALOG NO.:
EP1002C



SCHEMATIC - Δ / Y CONNECTION

ACROSS THE LINE CONNECTION



WYE START-DELTA RUN CONNECTION

