

DATE
APRIL 26, 2011
CAT. #: NP1/54C

OUTLINE DIMENSIONS

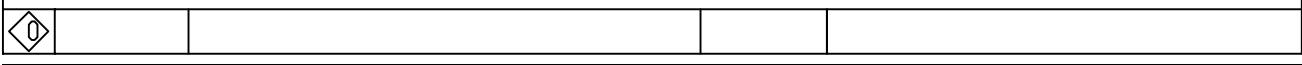
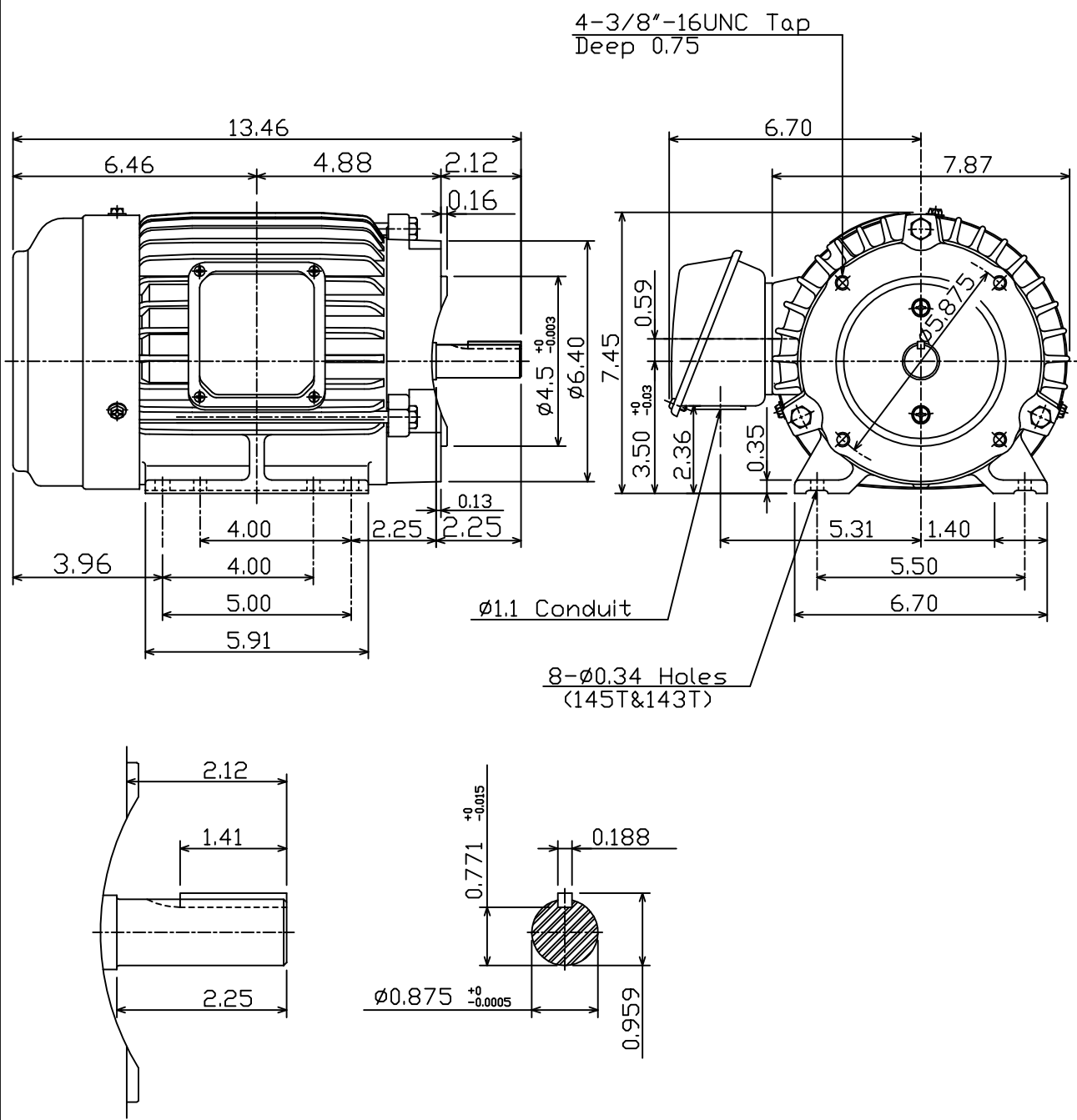
3-PHASE INDUCTION MOTOR

MOTOR TYPE:
AEHH8P-CF
FRAME NO. 145TC

Pole	HP	kW	Hz	VOLT	Syn.Speed r/min(rpm)
4	1.5	1.12	60	230/460	1800

Ins	Rating	Dimension in	Approx Weight	Bearings
F	CONT.	inch	56 lbs.	DE: 6205ZZ NDE: 6205ZZ

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



DWN.	C.S.LD	12-21-04
CHKD.	C.S.LD	12-27-04
APPD.	M.C.TSAI	12-27-04



DWG NO.
31049D188480

TECO Westinghouse

ISSUED 8/29/2014	PERFORMANCE DATA 3-PHASE INDUCTION MOTOR	ENCLOSURE TEFC
TYPE AEHH8PCF		CATALOG# NP1/54C

NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	NEMA DESIGN	TIME RATING	SERVICE FACTOR
HP	KW									
1.5	1.1	4	145TC	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	0.0002~1.5	90~1800	0.011~4.552	5.763	5.3809	13.911	8.6689	209.64

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
6~60	.15~1.5	180~1800	4.552	60~120	1.5	1800~3600	4.552~2.276

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.%						
1730	84	86.5	86.5	85.5	78	70	57	50

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			
1.95	2.22	1.11	4.60	4.16	2.08	36.2	40.0	20	M	57	40

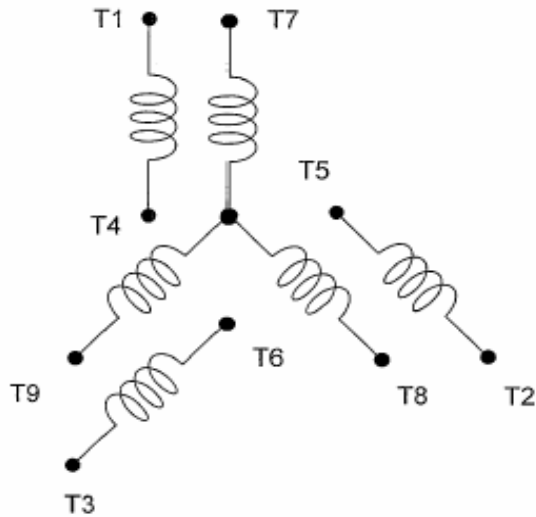
TORQUE				INERTIA			ACCEL TIME (DOL)		ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR %FLT	PULL UP %FLT	BREAK DOWN %FLT	ROTOR WR ² (lb-ft ²)	NEMA LOAD WK ² (lb-ft ²)	MAX ALLOWABLE WK ² (lb-ft ²)	NEMA LOAD WK ² Sec	MAX ALLOWABLE WK ² Sec	COLD	HOT
4.55	300	260	360	0.093	8.6	47	3.62	19.59	2	1

APPROVED:	M. PRATER	DRAWING NO.	31057NP1/54C	REVISION:	1
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DATE:
May 3, 2011

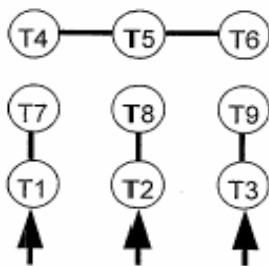
CONNECTION DIAGRAM

CATALOG NO.:
NP1/54C

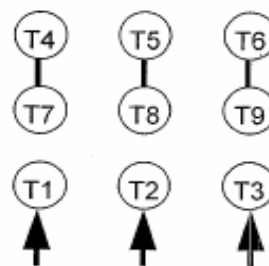


SCHEMATIC - 2Y/Y CONNECTION

ACROSS THE LINE CONNECTION



**LINE
230 VOLT CONNECTION**



**LINE
460 VOLT CONNECTION**